Standard Bidding Document

Request for Proposal (RFP) for Integrated Service Level Agreement (SLA) Extension and Technology Refresh at Higher Education Institutions (HEIs) (Goods)

National

Single Stage-Two Envelope

November 09, 2026

Higher Education Commission - HEC (Higher Education Commision (HEC)),Assistant Director
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Table of Contents

REQUEST FOR BIDS 1

Instructions to Bidders 3

Bid Data Sheet 24

Bids Data Sheet (BDS) 25

Eligibility Criteria 30

Evaluation Criteria 33

Items/Lots 37

Related Services of Goods: 56

Items/Lot Specification 63

Price Schedule 90

General Conditions of Contract 92

Special Conditions of Contract 103

Bid Securing Declaration 109

Contract Form 111

Integrity Pact 114

Performance Guarantee Form 116

Annexure 119

Technical Requirement 120

Supply & Installation Cost Table (Lot 1 & Lot 2) 1

Lot-1 -List of HEIs for Wi-Fi Deployment 120

Lot-1 List of HEIs for IP Surveillance 120

Lot-2 WI-Fi Deployment list of HEIs 120

Additional Technical Requirements 121

Service Level Agreement (SLA) 121

Implementation Schedule 121

Schedule of Requirements 121

Supply & Installation Cost Table [Lot 1 & Lot 2) 1

Procurement Forms 123

Past Experience and Completed Contracts 1

Historical Contract Non-Performance, and Pending Litigation and Litigation History 1

Current Contracts and Their Progress 1

Financial Capacity and Net Worth Evaluation Form 1

Average Annual Turnover 1

Additional Forms and Documents 126

REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Higher Education Commission - HEC (Higher Education Commision (HEC))** has reserved Funds for the procurement planned for FY **2026-27**. The **Higher Education Commission - HEC (Higher Education Commision (HEC))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**Request for Proposal (RFP) for Integrated Service Level Agreement (SLA) Extension and Technology Refresh at Higher Education Institutions (HEIs)**" with the reference of **"P190104"**

2. The **Higher Education Commission - HEC (Higher Education Commision (HEC))** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Pay Order, Call at Deposit** or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/190104** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Thursday, November 19, 2026 11:30 AM**. E-bids will be opened using **EPADS v2.0** on

the same day at **Thursday, November 19, 2026 12:00 PM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS v2.0,** may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc**

In terms of Rule 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.gov.pk**).

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Instructions to Bidders

A. Introduction

1.Scope of Bids

1.1 The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids **through EPADS v2.0** for the provision of Goods as specified in the BDS and **in Section V – Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. The successful Bidders will be expected to provide the goods within the specified period and timeline(s) as stated in the **BDS**.

2. Source of Funds

2.1 Source of funds is referred in Clause-2 I of Invitation for Bids.

3. Eligible Bidders

3.1 A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.

Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.

Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any

instructions issued by the Authority.

(The limit on the number of members of JV or Consortium or Association may be prescribed in BDS, in accordance with the guidelines issued by the PPRA).

3.2 The invitation for Bids is open to all prospective suppliers, manufacturers, or authorized agents / dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidders keeping in view the requirement of that business.

3.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.

2. have controlling shareholders in common; or

3. receive or have received any direct or indirect subsidy from any of them; or

4. have the same legal representative for purposes of this Bid; or

5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

6. Submit more than one Bid in this Bidding process.

3.4 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;

2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;

4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or submission of false or misleading information or performance failure or involved in disrupting procurement process or due to breach of bid Securing Declaration.

3.5 As and when required, bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6 Bidders shall submit Bids relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten (10) percent of the Bid price is envisaged.

4. Eligible Goods and Related Services

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are the countries declared ineligible by the Federal Government.

5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

5.2 **The Bidder shall not engage a subcontractor for any portion of the contract if the value of such subcontracting exceeds thirty percent (30%) of the total contract amount.**

6. Cost of Bidding

6.1 Any cost incurred by the bidder relating to the preparation and submission of its Bid shall be borne by the bidder, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. Bidding Documents

7. Contents of Bidding Document

7.1 The Goods required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 10.1** include:

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

Section IX Integrity Pact

Section X Declaration of Beneficial Ownership Information.

7.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding documents. Failure to furnish all the information required in the Bidding documents through EPADS v2.0 will be at the Bidder’s risk and may result in the rejection of its Bids.

8. Clarification of Bidding documents

8.1 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through EPADS v2.0**.**

8.2 The Procuring Agency will within two (02) working days after receiving the request for clarification, respond to any request for clarification through EPADS v2.0 provided that such request is received not later than three (03) days, prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 The Procuring Agency's response will be forwarded to all identified Prospective Bidders through EPADS v2.0, including a description of the inquiry,

but without identifying its source.

8.4 Should the Procuring Agency deem it necessary to amend the Bidding document as a result of a clarification, it shall do so following the procedure under **ITB 9.**

8.5 If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding document.

8.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS v2.0. Any modification to the Bidding documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 9. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda through EPADS v2.0.

9.2 The Procuring Agency shall promptly publish the addendum through EPADS v2.0.

Any addendum issued including the notice of any extension of the deadline shall also be communicated through EPADS v2.0 to all the bidders who have already submitted their bids. Such bidders shall have the right to withdraw their already submitted bid and re-submit the revised bid prior to the original or extended bid submission deadline.

9.3 To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids through EPADS v2.0:

Provided that the Procuring Agency shall extend the deadline for submission of Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

C. Preparation of Bids

10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS**.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

11. Documents and samples Constituting the Bid

11.1 The Bid prepared by the Bidder shall constitute the documents required in the **BDS**.

Details of sample(s) where applicable and requested in the BDS.

Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process;

Documentary evidence established in accordance with **ITB 03** that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;

Documentary evidence established in accordance with ITB 12 that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;

Bid security or Bid Securing Declaration furnished in accordance with **ITB ---.**

12. Documents Establishing Eligibility of the Goods and Conformity to Bidding documents

12.1 To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods

provided conform to the technical specifications and standards.

13. Documents Establishing Eligibility and Qualification of the Bidder

13.1 Pursuant to **ITB 10,** the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the Bidding process and/or its qualification to perform the contract if its Bid is accepted.

14. Form of Bid

14.1 The Bidder shall fill the Form of Bid furnished in the Bidding document. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.

15. Bid Prices

15.1 The Bid Prices quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the Bidding documents.

15.2 **All items in the Schedule of Requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced and neither explicitly denied, their prices shall be construed to be included in the prices of other items.**

15.3 In the event that any item(s) in the Price Schedule are not quoted, and such omission is determined by the Procuring Agency not to materially affect the responsiveness of the Bid, the Procuring Agency may, for the sole purpose of bid evaluation and comparison, assign a price to the unquoted item(s) in accordance with the following methodology:

(a) The assigned price shall be the average of the prices quoted for the same item(s) by all substantially responsive bidders; or

(b) In cases where no comparable quotations are available, the Procuring Agency shall apply the corresponding item price from its duly approved cost estimate for evaluation purposes.

The prices so assigned shall be utilized exclusively for bid evaluation and comparison, and shall not, under any circumstances, be incorporated into or form part of the Contract Price.

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 13.1** shall be the total price of the Bid.

15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the Goods it proposes to provide under the contract.

15.6 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected.

16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 42 (2) of the Public Procurement Rules, 2026.

17. Bids Validity Period

17.1 Such extensions may be more than one time but the total period of such extension shall not exceed the original bid validity period.

17.2 Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive**.** The period of Bid validity will be determined from the complementary Bid securing instrument, i.e. the expiry period of Bid Security or Bids Securing Declaration as the case may be.

The procuring agency shall ordinarily be under an obligation to process and evaluate the bid and to issue letter of award within the stipulated bid validity period.

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids through EPADS v2.0,. The Bid Security provided under **ITB 17** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

18. Bid Security or Bid Securing Declaration

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026.

18.2 The original Bid Security shall be enclosed within the sealed envelope and to be submitted physically before closing time for submission of bids. Whereas, scanned copy of bid security shall be uploaded electronically through EPADS v2.0 before closing hours for submission of bids.

18.3 The Bidder who failed to submit the original Bids security before the submission deadline shall be disqualified straightaway.

18.4 The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to **ITB 18.7.**

18.5 The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:

a) a bank guarantee, a bank draft, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency;

b) a cashier’s or certified cheque; or

c) another security if indicated in the BDS.

The Bid Security shall be valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18.7** are invoked.

18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the procuring agency pursuant to **ITB 17.** The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security documents, after whichever of the following that occurs earliest:

a. the expiry of the Bid Security;

b. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;

c. the rejection by the Procuring Agency of all Bids;

d. cancellation of procurement proceedings.

e. the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bid document stipulates that no such withdrawal is permitted.

18.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract**,** or furnishing the Performance Guarantee.

18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed:

a. if a Bidder:

b. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 16.2**; or

c. does not accept the correction of errors**;** or

d. in the case of a successful Bidder, if the Bidder fails:

e. to sign the contract; or

f. to furnish Performance Guarantee**.**

19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0.

20. Format and Signing of Bid

20.1 The Bidder shall prepare and submit Bids with due diligence after carefully reading all the terms and condition before bid submission deadline through EPADS v2.0.

D. Submission of Bids

21. Submission of Bids through EPADS v2.0 before bid submission deadline.

21.1 The Technical and Financial Bids, shall be submitted electronically through EPADS, before bid submission deadline. The bid submission option shall be automatically disabled once the deadline is over.

22. Deadline for Submission of Bids

22.1 Bids shall be received by the Procuring Agency through EPADS v2.0 before bid submission deadline.

22.2 The Procuring Agency may, under exceptional circumstances, extend the deadline for the submission of Bids, after recording reasons in writing and in an equal opportunity manner.

In such case, all rights and obligations of the Procuring Agency and the Bidders that were previously governed by the original deadline shall thereafter be subject to the revised deadline.

E. Opening and Evaluation of Bids

23. Opening of Bids

23.1 The respective Bid Evaluation Committee of the Procuring Agency shall open all Bids through the EPADS v2.0, on the date and time specified in the Bid Data Sheet (BDS).

23.2 The respective Bid Evaluation Committee **shall generate minutes through EPADS v2.0 containing brief details of bid opening process.** The record of the Bid opening shall include, as a minimum: the name of the Bidder, the Bid price if applicable, and the presence or absence of a Bid Security or Bid Securing Declaration.

23.3 The procuring agency shall live broadcast the opening of bids on national media or on their website or digital channels, if the volume of procurement exceeds five hundred million rupees in case of goods and services and one thousand million rupees in case of works.

23.4 In case the date of opening of bid has been declared as public holiday or the procuring agency fails to open bid due to any EPADS v2.0 related issues, the submission and opening of bids shall be shifted to the next working day at the same time.

23.5 In case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Bid respective Evaluation Committee.

23.6 No bid will be rejected at the time of bid openning except for bids whose original bid security has not been provided to the procuring agency before bid submission deadline.

24. Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of Bids of the Bidders, the respective Bid Evaluation Committee may, ask any Bidder for a clarification of its Bid including breakdown of prices.

24.2 The request for clarification and the response shall be sought through EPADS v2.0 before **three days prior to the deadline for submission of bids.** No change in the prices or substance of the Bids shall be sought, offered, or permitted.

24.3 The alteration or modification in the bids which in any way affect the following parameters will be considered as a change in the substance of a Bid:

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;
5. terms and conditions of Bidding documents.
6. change in the ranking of the Bidder

24.4 From the time of bid(s) opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bids it should do so through **EPADS v2.0**.

25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the respective Bid Evaluation Committee will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;

2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;

3. is accompanied by the required securities; and

4. is substantially responsive to the requirements of the Bidding documents.

25.2 The respective Bid Evaluation Committee's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

25.3 A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one that: -

1. affects in any substantial way the scope, quality, or performance of the Goods;

2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or

3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.4 If a Bid is not substantially responsive, it will be rejected by the respective Bid Evaluation Committee and may not subsequently be evaluated for complete technical responsiveness.

26. Examination of Terms and Conditions; Technical Evaluation

26.1 The respective Bid Evaluation Committee shall examine the Bids to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

26.2 The respective Bid Evaluation Committee shall evaluate the technical aspects of the Bids submitted, to confirm that all requirements specified in Schedule of Requirements and Technical Specifications of the Bidding documents have been met without material deviation or reservation.

26.3 If after the examination of the terms and conditions and the technical evaluation, the respective Bid Evaluation Committee determines that the Bid is not substantially responsive in accordance with **ITB,** it shall reject the Bid.

27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

1. if there is a discrepancy between unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the respective Evaluation Committee there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

27.2 The amount stated in the Bid will be adjusted by the respective Bid Evaluation Committee in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bids Securing Declaration may be executed.

28. Conversion to Single Currency

28.1 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency in accordance with Rule 42(2) of Public Procurement Rules,2026.

29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria prescribed in the Bidding Documents in accordance with Rule 11, 12 and 13 of the Public Procurement Rules, 2026.

29.2 While evaluating the bids, the procuring agency shall consider the following:

i. Bids will be evaluated on lump sum bid basis or items wise or Lot wise (contracts), as specified in the BDS; and the Bid Price;

ii. correction of arithmetic errors in accordance with ITB 27;

30. Domestic Preference

30.1 The respective Bid Evaluation Committee shall evaluate and compare bids, allow for preference to domestic bidders, while competing with the international bidders in accordance with the policies of the Federal Government.

The percentage of preference, to be accorded shall be clearly mentioned in the bidding documents under the bid evaluation criteria.

31. Determination of Successful Bid

31.1 **Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the BDS or prescribed in the separate section titled as Evaluation Criteria.**

31.2 **Least Cost Based Selection (LCBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered Successful Bid.

31.3 **Quality and Cost Based Selection (QCBS)**
In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

31.4 **Quality Based Selection (QBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk

management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second highest bidder and so on.

31.5 The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:

1. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or

2. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in Evaluation Criteria to be evaluated while determining the quality of the goods.

31.6 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(xxviii) of the Public Procurement Rules, 2026.

32. Abnormally Low Financial Bids

32.1 An abnormally low bid is a bid that, in light of the Procuring Agency's cost estimate, market conditions, or other received bids, appears to be unrealistically low and may not be sustainable for successfull contract execution.

32.2 **Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Successful Bids or as a part of the post-qualification process.**

32.3 The Procuring Agency may reject an Abnormally low financial bid in accordance with Rule 43 of the Public Procurement Rules, 2026.

32.4 In order to identify the Abnormally Low Bids (ALB) following approaches can be considered to minimize the scope of subjectivity:

1. Comparing the Bid price with the cost estimate;

2. Comparing the Bid price with the Bid(s) offered by other Bidders submitting substantially responsive Bids; and

3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.5 The respective Bid Evaluation Committee will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

32.6 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding documents shall not be used in the evaluation of the Bidders' qualifications.

32.7 Respective Bid Evaluation Committee may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

Explanation: The Certificate shall be furnished by the Bidder. The Bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

32.8 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the respective Bid Evaluation Committee will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.

F. Award of Contract

33. Criteria of Award

33.1 The Procuring Agency will award the Contract to the Bidder whose Bids has been determined to be substantially responsive to the Bidding documents and who has been declared as Successful Bidder.

34. Negotiations

34.1 In accordance with Rule 52A of Public Procurement Rules, 2026, without changing the cost and scope of work or services, the procuring agency may

negotiate with the successful bidder (with a view to streamline the work or task execution, at the time of contract finalization) on methodology, work plan, staffing and special conditions of the contract.

There shall be no limitation on the successful bidder offering voluntary reduction in bid price without affecting the quality or scope of the procurement.

35. Procuring Agency's Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 45 of the Public Procurement Rules, 2026.

36. Cancellation of Procurement

36.1 The procuring agency reserves the right to cancel the procurement proceedings in accordance with Rule 46 of the Public Procurement Rules, 2026.

37. Procuring Agency’s Right to Vary Quantities at the Time of Award

37.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the **quantity of** Goods originally specified in these Bidding documents provided this does not exceed **by** 15%, without any change in unit price or other terms and conditions of the Bids and Bidding documents.

38. Notification of Award

38.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on EPADS v2.0 in accordance with Rule 48 of the Public Procurement Rules, 2026.

The Bidder whose Bids has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bids/Bid Validity period. The Letter of Award will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the delivery of Goods as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

38.2 The Letter of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Guarantee and signing of the contract.

39. Signing of Contract

39.1 Promptly after issuance of Letter of award, Procuring Agency shall send the successful Bidder the draft Contract, incorporating all terms and conditions as agreed by the parties to the contract.

39.2 Immediately after the Redressal of grievance by the GRC (if any), and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

40. Corrupt & Fraudulent Practices

40.1 Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.

F. Grievance Redressal & Complaint Review Mechanism

41. Constitution of Grievance Redressal Committee

41.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 65 of the Public Procurement Rules, 2026 read with Redressal of Grievances Regulations, 2021.

In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 65(7) of the Public Procurement Rules, 2026 to be read with Redressal of Grievances Regulations, 2021.

G. Mechanism of Blacklisting

42. Mechanism of Blacklisting

42.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Rule 25 of the Public Procurement Rules, 2026.

42.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 25 (6) of the Public Procurement Rules, 2026 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.

43. Contract Management

43.1 For each procurement, the Procuring Agency shall designate a Contract Manager, who shall be duly responsible for the efficient management and administration of the contract in strict compliance with the provisions set forth under Rules 58, 59, and 60 of the Public Procurement Rules, 2026.

44. Inspection of goods and evaluation of services.

44.1 The Inspection Committee or the Firm shall have the right to conduct inspections of the goods in accordance with Rule 61 of the Public Procurement Rules, 2026.

45. Socio-economic development.

45.1 In accordance with Rule 63 of the Public Procurement Rules, 2026, preference may be granted to small and medium enterprises and marginalized groups in accordance with the policies notified by the Federal Government.

46. Environmental objectives

46.1 As per Rule 64 of the Public Procurement Rules, 2026, the procuring agency may seek to procure goods with a reduced environmental impact throughout their life cycle when compared to goods services with the same primary function that may otherwise be procured.

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number
ITB Number
Amendments of, and Supplements to, Clauses in the Instruction to Bidders

A. Introduction

BDS Clause Number 1
ITB Number 1.1

Name of Procuring Agency: **Higher Education Commission - HEC (Higher Education Commision (HEC))**

The subject of procurement is: **Request for Proposal (RFP) for Integrated Service Level Agreement (SLA) Extension and Technology Refresh at Higher Education Institutions (HEIs)**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Wednesday, December 9, 2026**

BDS Clause Number 2
ITB Number 2.1

Source of funds [Enter source of funds]

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P190104**

Identification Number:

BDS Clause Number 3
ITB Clause Number 3.1

Eligible Bidder [Enter eligibility of bidder]

JV/Consortium or Association Allowed: **No**
Number of JV/Consortium Members: **Nil**
see section of eligibility criteria.

B. Bidding Documents

BDS Clause Number 4

ITB Clause Number 4.1

Eligible goods and related services [Enter requirements for eligible goods and related services, if any]

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Monday, November 16, 2026
Pre-Bid Meeting: Wednesday, November 11, 2026 11:00 AM
Venue: Video Conference Hall, New Datacenter, IT Division, Sector HEC H-9 Islamabad

ITB Number 8.2

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Monday, November 16, 2026
Pre-Bid Meeting: Wednesday, November 11, 2026 11:00 AM
Venue: Video Conference Hall, New Datacenter, IT Division, Sector HEC H-9 Islamabad

ITB Number 8.3

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Monday, November 16, 2026
Pre-Bid Meeting: Wednesday, November 11, 2026 11:00 AM
Venue: Video Conference Hall, New Datacenter, IT Division, Sector HEC H-9 Islamabad

ITB Number 8.5

Pre-bid meeting will be/will not be held [Tick the appropriate] If yes write down the time, and date of the pre-Bid meeting:
[The meeting should take place not later than one weeks before the deadline for Bid submission.]

C. Preparation of Bids

BDS Clause Number 5
ITB Number 10.1

The Language of all correspondences and documents related to the Bids shall be in: **English**

List of documents required along with the bid:

1. 1. Item-wise filled BOQ Table

BDS Clause Number 6
ITB Number 11.1

Documents required / not required with bid submission [enter list of documents] Samples required / not required with the bid [Enter the names and number of samples]
Items/Lots and their related documents:
See section items and Lots

BDS Clause Number 7
ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8
ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9
ITB Number 16.1

Currency of the Bids shall be : **PKR**

BDS Clause Number 10
ITB Number 17.1

The Bids/Bid Validity period shall be: **120 Days**

BDS Clause Number 11
ITB Number 18.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
Instrument of Bid Security shall be in the Name of : **Higher Education Commission - HEC**
The Bid Security shall be in the form of: **Pay Order, Call at Deposit**

ITB Number 18.2

The address for submission of original bid security is [Insert the address for bid security submission]

D. Submission of Bids

BDS Clause Number 12
ITB Number 20.1

Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

H-9, Islamabad Capital Territory before bid submission deadline.

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Thursday, November 19, 2026 11:30 AM**

Day *:* ***Thursday***

Date: ***Thursday, November 19, 2026***

Time *:* ***12:00 PM***

E. Opening and Evaluation of Bids

BDS Clause Number 13
ITB Number 23.1

The Bids opening shall take place on **EPADS v2.0**.

Day *:* ***Thursday***

Date: ***Thursday, November 19, 2026***

Time *:* ***12:00 PM***

ITB Number 29.2

The procuring agency shall consider the following:
lump sum bid basis; or
items wise; or
Lot wise (contracts),

ITB Number 30.1

BDS Clause Number 14
ITB Number 31.1

Domestic Preference [applicable / not applicable]

ITB Number 31.2

Selection technique adopted will be:
The Procuring Agency shall use any of the following evaluation techniques for determination of successful bid.

Least Cost Base Selection (LCBS)
Quality and Cost Based Selection (QCBS)
Quality Based Selection (QBS)
[Insert the Evaluation Technique]

Selection technique adopted will be: **Least Cost Based Selection (LCBS)**
see Evaluation Criteria

F. Review of Procurement Decisions

BDS Clause Number 15
ITB Number 41.1

Grievence against this procurement shall be submitted online on EPADS v2.0.

Arbitrator shall be appointed by mutual consent of the both parties.

ITB Number 42.2

The Address of PPRA Grievance Redressal Appellate Committee to submit a copy of grievance:

Grievance Redressal Appellate Committee,
Public Procurement Regulatory Authority
1st Floor, G-5/2, Islamabad, Pakistan
Tel: +92-51-9202254

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
FBR (NTN)
FBR (GSTN)
SECP

Eligibility Criteria	Document
The Bidder should be in Operations in Pakistan from last ten (10) calendar years. Please upload copies of Certificate(s) of incorporation or registration document showing legal status for operations in Pakistan.	Yes
The Bidder Must Be Silver/ Gold (or Equivalent or higher Partner for the proposed OEM Off-the-Shelf solution (with the certified competencies) and corresponding hardware in Pakistan. Please upload the certificate of Principal showing the partnership level of bidder	Yes
The Bidder must be certified partner of the OEM for last 10 years. Bidder must have done USD 5 Million with same principal in last 5 years in single or multiple projects. Please upload the Bidder Partnership record and copies of PO(s) obtained directly from the customer	Yes

Bidder shall not be eligible to participate in this project if the firm has been blacklisted/ debarred by any Government/ Semi Government organization in Pakistan in participating in any procurement activities for fraudulent or corrupt practices, or in litigation. An affidavit to the effect that the firm has not been blacklisted/ debarred/ in litigation with/ by any Government/ Semi Government organization.	Yes
Bidders shall demonstrate adequate financial strength, technical capability and commitment to support the proposed equipment, technology refresh and SLA services throughout the seven (07) year Contract period. Documentary evidence to proof that the Bidder 1. Evidence of an established business relationship with the respective OEM/principal for at least ten (10) years, supported by relevant business records and financial transaction history.	Yes
2. An undertaking from the Bidder confirming its readiness, technical capability and adequate financial capacity to provide equipment, technology refresh, deployment, maintenance and support services throughout the seven (07) year Contract period	Yes
The Bidder shall submit a valid Manufacturer Authorization Form (MAF), issued by the Original Equipment Manufacturer (OEM), for for the existing installed equipment installed and technology refresh covered under the respective Lot. 1. Confirm the Bidder's authorization and capability to provide maintenance, troubleshooting, repair, replacement and technical support for the existing installed equipment.	No
2. Confirm authorization to supply, install, configure, integrate and commission the proposed equipment for technology refresh. 3. Confirm the availability of OEM-backed technical support, firmware/software updates, warranty and replacement services, as applicable.	No
4. Confirm OEM support and availability of relevant spare parts throughout the seven (07) year Contract period, subject to the applicable product support lifecycle. 5. Be issued on the OEM's official letterhead and duly signed and stamped by an authorized representative.	Yes
The Principal (OEM) should be leader in the Gartner® Magic Quadrant™ for Enterprise Wired and Wireless LAN Infrastructure in any of the last three years (i.e 2026, 2025, 2024 report)	Yes

Principal/ OEM (Through partner) must have deployed 5,000 Access Points in Pakistan. Attach copies of PO (s).	Yes
Principal (OEM) should have local presence in Pakistan for at least fifteen (15) years with the relevant sales, pre-sales and technical staff. Certificate from the Principal authorized person clearly specifying the List, address of principal own warehouse with minimum stock maintenance level in percentage. List of staff with Designation should be provided on company's letter head.	Yes
Bidder should have Installed IP Networking Equipment ((Routers/Switches or WiFi Only) in at least 20 HEIs/colleges/ Education Sector under single project or multiple projects. Please attach the list of PO(s) directly from the customer.	Yes
Bidder Experience in IP Cameras (for bidders participating in LOT-1). The bidder should have Installed Minimum 500 IP Cameras in single project. Copy of POs (Directly Singed with the customer(s))	Yes
Company must have at least Rs.1000 million PKR or above in form of liquid assets for current year. Please upload documentary evidences in shape of audit reports are required.	Yes
Bidder must have their registered offices in three (3) major cities of Pakistan (i.e Karachi, Lahore, Islamabad/ Rawalpindi,) Bidder Must have their registered Service centers in 5 cities of Pakistan Please upload Documentary evidences are required on companies letter head.	Yes

Evaluation Criteria

Eligibile bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	165
Passing Marks	**116**
Bidders Corporate Profile	
Company In Operation In Pakistan (number of years) NTN, Registration Certificate & SECP Registration (Quantitative) (Doc Required) Company in operation for more than 10 years and less than 15 years in Pakistan **(10)**	10
Quoted Product Relevant Human Resource Strength in Pakistan (Certified Engineers). Number of trained resources on bidder letter head along with relevant certificates. (Quantitative)(Doc Required) Number of trained resources or certified engineers more than 10 **(10)** Number of trained resources or certified engineers more than 5 and less than 10 **(5)**	10

Firm Financial Strength (last Three years of the IT product solutions & Services Unit of the company. Audited Reports of last three years, verified through relevant POs. (Quantitative)(Doc Required) The firm with more than annual average turnover of 1500 Million PKR or above **(10)** The firm with more than annual average turnover of 1000 Million PKR or above **(5)**	10
Number of resident engineer deputed in different cities under one project of IP Network SLA. List of resident engineers verified through deputed Organization. With documentary proof in form of company's letterhead and agreement. (Quantitative)(Doc Required) The firms having 25 or more resident IP Network engineers in different cities of Pakistan **(10)** The firms having 15 or more resident IP Network engineers and less than 25 in different cities of Pakistan **(5)**	10
Bidder's Track Record	
Bidder's maximum Wi-Fi (AP) deployment experience under one project. Copy of POs or Completion certificate obtained directly from the end customer (Quantitative)(Doc Required) Greater than or equal to 10000 APs **(20)** Greater than or equal to 7000 APs and less than 10000 **(15)** Greater than or equal to 6000 APs and less than 7000 **(10)** Greater than or equal to 5000 APs and less than 6000 **(5)**	20
Track record of Bidder's IP Cameras deployment experience (For Lot-1) List of sites along with Completion certificate obtained directly from the customer. (Quantitative)(Doc Required) Greater than or equal to 10000 IP Cameras **(20)** Greater than or equal to 7000 IP Cameras and less than 10000 **(15)** Greater than or equal to 6000 IP Cameras and less than 7000 **(10)** Greater than or equal to 5000 IP Cameras and less than 6000 **(5)**	20

Track record of Bidder’s IP Networks or Cyber security deployment experience in Education sector. List of sites along with Completion certificate obtained directly from the customer (Quantitative)(Doc Required) Deployment experience in more than 30 HEIs **(20)** Deployment experience in 25 or less 30 HEIs **(15)** Deployment experience in 15 or less 25 HEIs **(10)**	20
Track record of Bidder’s Education sector’s Projects and Engagements Undertaken by the Bidder in Last 5 Years. Copy of PO(s) and completion Certificate(s) obtained directly from the customer (Quantitative)(Doc Required) Business projects worth USD 6 Million or above **(15)** Business projects worth USD 5 Million or above and less than 6 Million USD **(10)** Business projects worth USD 4 Million or above and less than 5 Million USD **(5)**	15
Bidder’s Organizational Relationship with the Principal (last 5 years). Copy of PO(s) and completion Certificate(s) obtained directly from the customer (Quantitative)(Doc Required) Business projects worth USD 6 Million or above **(10)** Business projects worth USD 5 Million or above and less than 6 Million USD **(5)**	10
Product International Rating	
X The Product/ Principal rating as leader in the Gartner® Magic Quadrant™ for Enterprise Wired and Wireless LAN Infrastructure (In last 5 years). Attach Relevant Gartner® Magic Quadrant™ Reports for Enterprise Wired and Wireless LAN (Quantitative)(Doc Required) Firms having Gartner® Magic Quadrant™'s rating for equal to or more than 3 years **(10)** Firms having Gartner® Magic Quadrant™'s rating for equal to 2 or less than 3 years **(5)** Firms having Gartner® Magic Quadrant™'s rating for equal to 1 or less than 2 years **(2)**	10

The Product / Principal ranked among the Top 5 vendors in IDC Worldwide Enterprise WLAN Market Share Report during the last five (05) years. Attach Relevant IDC Worldwide Enterprise WLAN Market Share Reports for the respective years shall be provided. (Quantitative)(Doc Required) Firms ranked among top 5 vendors in IDC Worldwide Enterprise WLAN Market Share Report for equal to or more than 3 years **(10)** Firms ranked among top 5 vendors in IDC Worldwide Enterprise WLAN Market Share Report for equal to or more than 2 years and less than 3 years **(5)**	10
Project Execution & Methodology	
Sites Survey’s execution (Surveys of sites, preparation of CAD drawings, Wi-Fi Heat map and RF planning). Attach Survey Plan in MS project (Quantitative)(Doc Required) The bid offering the shortest survey execution and report submission plan in less than two months among all the responsive bids **(10)** The bid offering the shortest survey execution and report submission plan in more than two months and less than 3 months among all the responsive bids **(5)** The bid offering the shortest survey execution and report submission plan in more than 3 months among all the responsive bids **(1)**	10
Project Plan for technology refresh. Project Plan in the Bid in MS Project with clearly mentioning the Milestones/ completion days (Quantitative)(Doc Required) Tech refresh of Wi-Fi Access Points in Eighteen (18) Months **(10)** Tech refresh of new Wi-Fi Access Points in twenty four (24) Months **(5)** Tech refresh of new Wi-Fi Access Points in Lot-1 or Lot-2 in more than twenty four (24) Months **(1)**	10

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Items/Lots

Lot Title : Lot-1: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Bid Security : 5000000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Access Points	Wireless access point	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 15000/Qty	15000 / Qty	Any	7 Years
Outdoor / Industrial Access Point	Wireless access point	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1000/Qty	1000 / Qty	Any	7 Years
8-Port PoE+ Access Switch	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 2350/Qty	2350 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
PoE+ Access Switch 24 Port	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1400/Qty	1400 / Qty	Any	7 Years
NGFirewall – High Capacity	Firewall network security equipment	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 53/Qty	53 / Qty	Any	7 Years
NGF – Medium Capacity	Firewall network security equipment	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 67/Qty	67 / Qty	Any	7 Years
Wireless Access Controller – High Capacity	WLAN wireless access network equipment and components	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 20/Qty	20 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Wireless Access Controller – Standard Capacity	WLAN wireless access network equipment and components	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 50/Qty	50 / Qty	Any	7 Years
Core Switch – Standard	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 38/Qty	38 / Qty	Any	7 Years
Core Switch – High Capacity	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 38/Qty	38 / Qty	Any	7 Years
Centralized CNM Platform – Primary and DR	Administration software	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 3/Qty	3 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
UPS	Power supply	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1150/Qty	1150 / Qty	Any	7 Years
Optical Fiber – 04 Core Single Mode fiber	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 10000/m	10000 / m	Any	7 Years
Optical Fiber – 04 Core Single Mode 9/125, along with already laid duct (Mtr)	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 126000/m	126000 / m	Any	7 Years
Optical Fiber – 04 Core Single Mode 9/125, with duct	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 12000/m	12000 / m	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Optical Fiber – 24 Core Single Mode	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 30000/m	30000 / m	Any	7 Years
Optical Fiber – 24 Core Single Mode 9/125, laying in already laid ducts	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 years **Quantity:** 18000/m	18000 / m	Any	7 Years
Optical Fiber – 24 Core Single Mode 9/125, with duct	Outdoor fiber optics cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 years **Quantity:** 115000/m	115000 / m	Any	7 Years
UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC	Cable accessories	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 years **Quantity:** 200000/m	200000 / m	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC (Mtr)	Cable accessories	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 65140/m	65140 / m	Any	7 Years
Channel Duct (Local) – PVC Cable Duct (Mtr)	Cable accessories	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1320000/m	1320000 / m	Any	7 Years
Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf	Cabinets	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 450800/m	450800 / m	Any	7 Years
Wall Mount ODF – with Single Mode Couplers	Fiber optic distribution box	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 5500/Qty	5500 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Power / electric work with proper ducting (includes cables and duct)	Cable accessories	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 22014/m	22014 / m	Any	7 Years
Patch Panel – 19" Rack Mountable 24 Port	Patch panel	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 150020/Qty	150020 / Qty	Any	7 Months
Bullet Camera 50mm Box/Bullet Camera Bracket (Outdoor-Pole installation, Load 20kg, with loops)	Closed circuit television CCTV system	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 100/Qty	100 / Qty	Any	7 Years
Locally Fabricated Pole – 05FT, 1.0" GI Pipe	Extension pole	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 3716/Qty	3716 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Locally Fabricated Pole – 10FT, 1.5" GI Pipe	Extension pole	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1876/Qty	1876 / Qty	Any	7 Years
Locally Fabricated Pole – 15FT, 2.5" GI Pipe	Extension pole	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 678/Qty	678 / Qty	Any	7 Years
Cable Markers (Route Locators, metal type)	Identification markers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1168/Qty	1168 / Qty	Any	7 Years
Earthing Pit	Earthmoving buckets or its parts or accessories	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 210/Qty	210 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Power Socket (light plug)	Lamp sockets	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 30/Qty	30 / Qty	Any	7 Years
Electrical DB	Electrical boxes	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 55/Qty	55 / Qty	Any	7 Years
Circuit Breakers 16/32amp SP	Circuit breakers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 120/Qty	120 / Qty	Any	7 Years
Circuit Breakers 32/40amp TP	Circuit breakers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 60/Qty	60 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Power Cable 2.5mm	Power cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 3100/m	3100 / m	Any	7 Years
Power Cable 3/c 6mm	Power cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 25198/m	25198 / m	Any	7 Years
Flexible Pipe / Electric Piping with laying	Commercial PVC pipe	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 60646/m	60646 / m	Any	7 Years
PTZ Cameras (IPC6625-Z30-P)	Closed circuit television CCTV system	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 400/Qty	400 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Bullet Cameras 50mm (IPC6225-VRZ)	Closed circuit television CCTV system	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 6000/Qty	6000 / Qty	Any	7 Years
Dome Cameras (IPC6325-WD-VR)	Closed circuit television CCTV system	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 2775/Qty	2775 / Qty	Any	7 Years
NVR VCN500 Small, Medium & Large Universities	Digital video recorders	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 444/Qty	444 / Qty	Any	7 Years
NVR (VCN3020) – Extra-large universities	Digital video recorders	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 35/Qty	35 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
RH1288 V3 – Eduroam service, Campus	Wireless fidelity base stations Wifi	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 50/Qty	50 / Qty	Any	7 Years
Regional Storage (OceanStor 2800 V3) – 1.74 PB	Cold storage services	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 6/Qty	6 / Qty	Any	7 Years
Decoder	Encoder decoder equipment	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 324/Qty	324 / Qty	Any	7 Years
Implementation Services	Point of sale hardware installation or implementation service	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1/job	1 / job	Any	7 Years

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Technical Training for relevant staff	Personnel skills training	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 70/Qty	70 / Qty	Any	7 Years

Lot Title : Lot-2: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Bid Security : 3000000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Access Point – Dual band	Wireless access point	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1500/Qty	1500 / Qty	Any	7 Years
Access Points	Wireless access point	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 9310/Qty	9310 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Outdoor / Industrial Access Point	Wireless access point	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 350/Qty	350 / Qty	Any	7 Years
8-Port PoE+ Access Switch	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 630/Qty	630 / Qty	Any	7 Years
PoE+ Access Switch 24 Port	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 965/Qty	965 / Qty	Any	7 Years
Wireless Access Controller – High Capacity	WLAN wireless access network equipment and components	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 40/Qty	40 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Wireless Access Controller – Standard Capacity	WLAN wireless access network equipment and components	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 38/Qty	38 / Qty	Any	7 Years
Core Switch – Standard	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 40/Qty	40 / Qty	Any	7 Years
Core Switch – High Capacity	Network switches	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 40/Qty	40 / Qty	Any	7 Years
Centralized CNM Platform – Primary and DR (Cisco L-ISE-BSE-PLIC, LMS-4.0-WIN-K or equivalent)	Cloud network devices as a service	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 3/Qty	3 / Qty	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
UPS	Power supply	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1150/Qty	1150 / Qty	Any	7 Years
Optical Fiber – 04 Core Single Mode 9/125	Optical fiber identifiers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 10000/m	10000 / m	Any	7 Years
Optical Fiber – 24 Core Single Mode 9/125	Optical fiber identifiers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 10500/m	10500 / m	Any	7 Years
UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC	Aerial cable	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 50200/m	50200 / m	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Channel Duct (Local) – PVC Cable Duct	Cable handler	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 5200/m	5200 / m	Any	7 Years
Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf	Cabinets	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 1100/Qty	1100 / Qty	Any	7 Years
Wall Mount ODF – with Single Mode Couplers	Fiber optic distribution box	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 550/Qty	550 / Qty	Any	7 Years
Power / electric work with proper ducting (includes cables and duct)	Cable joint	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 23000/m	23000 / m	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Patch Panel – 19" Rack Mountable 24 Port	Patch panel	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 360/Qty	360 / Qty	Any	7 Years
Cable Markers (Route Locators, metal type)	Markers	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 10/Qty	10 / Qty	Any	7 Years
Flexible Pipe / Electric Piping with laying	Duplex steel pipe bend	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 2000/m	2000 / m	Any	7 Years
Implementation Services	Point of sale hardware installation or implementation service	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 10/job	10 / job	Any	7 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Technical Training	Personnel skills training	**Address:** H-9, Islamabad Capital Territory **Schedule:** 2 Years **Quantity:** 70/Qty	70 / Qty	Any	7 Years

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Related Services of Goods:

No

Lot-1: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Item	UNSPSC	Related Services
Access Points	Wireless access point	SLA, Monitoring, Maintenance & Troubleshooting
Outdoor / Industrial Access Point	Wireless access point	SLA, Monitoring, Maintenance & Troubleshooting
8-Port PoE+ Access Switch	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
PoE+ Access Switch 24 Port	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
NGFirewall – High Capacity	Firewall network security equipment	SLA, Monitoring, Maintenance & Troubleshooting
NGF – Medium Capacity	Firewall network security equipment	SLA, Monitoring, Maintenance & Troubleshooting
Wireless Access Controller – High Capacity	WLAN wireless access network equipment and components	SLA, Monitoring, Maintenance & Troubleshooting

Item	UNSPSC	Related Services
Wireless Access Controller – Standard Capacity	WLAN wireless access network equipment and components	SLA, Monitoring, Maintenance & Troubleshooting
Core Switch – Standard	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
Core Switch – High Capacity	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
Centralized CNM Platform – Primary and DR	Administration software	SLA, Monitoring, Maintenance & Troubleshooting
UPS	Power supply	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 04 Core Single Mode fiber	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 04 Core Single Mode 9/125, along with already laid duct (Mtr)	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 04 Core Single Mode 9/125, with duct	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 24 Core Single Mode	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 24 Core Single Mode 9/125, laying in already laid ducts	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 24 Core Single Mode 9/125, with duct	Outdoor fiber optics cable	SLA, Monitoring, Maintenance & Troubleshooting

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item	UNSPSC	Related Services
UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC	Cable accessories	SLA, Monitoring, Maintenance & Troubleshooting
UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC (Mtr)	Cable accessories	SLA, Monitoring, Maintenance & Troubleshooting
Channel Duct (Local) – PVC Cable Duct (Mtr)	Cable accessories	SLA, Monitoring, Maintenance & Troubleshooting
Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf	Cabinets	SLA, Monitoring, Maintenance & Troubleshooting
Wall Mount ODF – with Single Mode Couplers	Fiber optic distribution box	SLA, Monitoring, Maintenance & Troubleshooting
Power / electric work with proper ducting (includes cables and duct)	Cable accessories	SLA, Monitoring, Maintenance & Troubleshooting
Patch Panel – 19" Rack Mountable 24 Port	Patch panel	SLA, Monitoring, Maintenance & Troubleshooting
Bullet Camera 50mm Box/Bullet Camera Bracket (Outdoor-Pole installation, Load 20kg, with loops)	Closed circuit television CCTV system	SLA, Monitoring, Maintenance & Troubleshooting
Locally Fabricated Pole – 05FT, 1.0" GI Pipe	Extension pole	SLA, Monitoring, Maintenance & Troubleshooting
Locally Fabricated Pole – 10FT, 1.5" GI Pipe	Extension pole	SLA, Monitoring, Maintenance & Troubleshooting
Locally Fabricated Pole – 15FT, 2.5" GI Pipe	Extension pole	SLA, Monitoring, Maintenance & Troubleshooting

Item	UNSPSC	Related Services
Cable Markers (Route Locators, metal type)	Identification markers	SLA, Monitoring, Maintenance & Troubleshooting
Earthing Pit	Earthmoving buckets or its parts or accessories	SLA, Monitoring, Maintenance & Troubleshooting
Power Socket (light plug)	Lamp sockets	SLA, Monitoring, Maintenance & Troubleshooting
Electrical DB	Electrical boxes	SLA, Monitoring, Maintenance & Troubleshooting
Circuit Breakers 16/32amp SP	Circuit breakers	SLA, Monitoring, Maintenance & Troubleshooting
Circuit Breakers 32/40amp TP	Circuit breakers	SLA, Monitoring, Maintenance & Troubleshooting
Power Cable 2.5mm	Power cable	SLA, Monitoring, Maintenance & Troubleshooting
Power Cable 3/c 6mm	Power cable	SLA, Monitoring, Maintenance & Troubleshooting
Flexible Pipe / Electric Piping with laying	Commercial PVC pipe	SLA, Monitoring, Maintenance & Troubleshooting
PTZ Cameras (IPC6625-Z30-P)	Closed circuit television CCTV system	SLA, Monitoring, Maintenance & Troubleshooting
Bullet Cameras 50mm (IPC6225-VRZ)	Closed circuit television CCTV system	SLA, Monitoring, Maintenance & Troubleshooting

Item	UNSPSC	Related Services
Dome Cameras (IPC6325-WD-VR)	Closed circuit television CCTV system	SLA, Monitoring, Maintenance & Troubleshooting
NVR VCN500 Small, Medium & Large Universities	Digital video recorders	SLA, Monitoring, Maintenance & Troubleshooting
NVR (VCN3020) – Extra-large universities	Digital video recorders	SLA, Monitoring, Maintenance & Troubleshooting
RH1288 V3 – Eduroam service, Campus	Wireless fidelity base stations Wifi	SLA, Monitoring, Maintenance & Troubleshooting
Regional Storage (OceanStor 2800 V3) – 1.74 PB	Cold storage services	SLA, Monitoring, Maintenance & Troubleshooting
Decoder	Encoder decoder equipment	SLA, Monitoring, Maintenance & Troubleshooting
Implementation Services	Point of sale hardware installation or implementation service	SLA, Monitoring, Maintenance & Troubleshooting
Technical Training for relevant staff	Personnel skills training	SLA, Monitoring, Maintenance & Troubleshooting

Lot-2: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Item	UNSPSC	Related Services
Access Point – Dual band	Wireless access point	SLA, Monitoring, Maintenance & Troubleshooting

Item	UNSPSC	Related Services
Access Points	Wireless access point	SLA, Monitoring, Maintenance & Troubleshooting
Outdoor / Industrial Access Point	Wireless access point	SLA, Monitoring, Maintenance & Troubleshooting
8-Port PoE+ Access Switch	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
PoE+ Access Switch 24 Port	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
Wireless Access Controller – High Capacity	WLAN wireless access network equipment and components	SLA, Monitoring, Maintenance & Troubleshooting
Wireless Access Controller – Standard Capacity	WLAN wireless access network equipment and components	SLA, Monitoring, Maintenance & Troubleshooting
Core Switch – Standard	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
Core Switch – High Capacity	Network switches	SLA, Monitoring, Maintenance & Troubleshooting
Centralized CNM Platform – Primary and DR (Cisco L-ISE-BSE-PLIC, LMS-4.0-WIN-K or equivalent)	Cloud network devices as a service	SLA, Monitoring, Maintenance & Troubleshooting
UPS	Power supply	SLA, Monitoring, Maintenance & Troubleshooting
Optical Fiber – 04 Core Single Mode 9/125	Optical fiber identifiers	SLA, Monitoring, Maintenance & Troubleshooting

Item	UNSPSC	Related Services
Optical Fiber – 24 Core Single Mode 9/125	Optical fiber identifiers	SLA, Monitoring, Maintenance & Troubleshooting
UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC	Aerial cable	SLA, Monitoring, Maintenance & Troubleshooting
Channel Duct (Local) – PVC Cable Duct	Cable handler	SLA, Monitoring, Maintenance & Troubleshooting
Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf	Cabinets	SLA, Monitoring, Maintenance & Troubleshooting
Wall Mount ODF – with Single Mode Couplers	Fiber optic distribution box	SLA, Monitoring, Maintenance & Troubleshooting
Power / electric work with proper ducting (includes cables and duct)	Cable joint	SLA, Monitoring, Maintenance & Troubleshooting
Patch Panel – 19" Rack Mountable 24 Port	Patch panel	SLA, Monitoring, Maintenance & Troubleshooting
Cable Markers (Route Locators, metal type)	Markers	SLA, Monitoring, Maintenance & Troubleshooting
Flexible Pipe / Electric Piping with laying	Duplex steel pipe bend	SLA, Monitoring, Maintenance & Troubleshooting
Implementation Services	Point of sale hardware installation or implementation service	SLA, Monitoring, Maintenance & Troubleshooting
Technical Training	Personnel skills training	SLA, Monitoring, Maintenance & Troubleshooting

Items/Lot Specification

Lot Title : Lot-1: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Item: Access Points

UNSPSC: Wireless access point

Specifications / Requirements:

Minimum technical requirement: 1. IEEE 802.11be (Wi-Fi 7), backward compatible with 802.11a/b/g/n/ac/ax 2. Indoor, enterprise grade, ceiling or wall mounted 3. Three concurrent radios: 2.4 GHz, 5 GHz and 6 GHz 4. Multi-Link Operation (MLO), 4K-QAM, OFDMA, MU-MIMO and preamble puncturing • Enterprise-grade indoor wireless access point supporting Wi-Fi 7 or an equivalent/latest applicable standard. • Minimum 2x2 MIMO capability. • Support simultaneous dual-band operation on the 2.4 GHz and 5 GHz frequency bands. • Support for secure wireless access, multiple users and reliable campus connectivity. • Centralized configuration, monitoring and management through the proposed wireless management solution. • Suitable for integration with the proposed wireless network management solution. Note: Please quote unit price.

Item: Outdoor / Industrial Access Point

UNSPSC: Wireless access point

Specifications / Requirements:

Minimum Technical Specifications • Enterprise-grade outdoor access point suitable for outdoor and industrial environments, supporting Wi-Fi 7 or an equivalent/latest applicable standard. • Minimum 2x2 MIMO capability. • Support simultaneous dual-band operation on the 2.4 GHz and 5 GHz frequency bands. • Support external outdoor

antennas, including omnidirectional or directional antennas, as required for the deployment. • Weather-resistant enclosure suitable for the intended outdoor installation environment. • Support for secure wireless access, multiple users and centralized configuration and monitoring. • Suitable for integration with the proposed wireless management solution. • The external antennas shall be compatible with the offered access point and suitable for outdoor installation. Note: Please quote unit price.

Item: 8-Port PoE+ Access Switch

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • Managed Ethernet access switch with at least 8 access ports supporting 2.5 Gbps or higher speeds. • Support for PoE+ or higher power delivery on applicable ports. • At least one high-speed uplink interface of 10 Gbps or equivalent. • Support for VLANs, network management, traffic prioritization and basic network security features. • Suitable for connecting wireless access points and other campus network devices. Note: Please quote unit price.

Item: PoE+ Access Switch 24 Port

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • Managed Ethernet access switch with at least 24 access ports supporting 2.5 Gbps or higher speeds. • Support for PoE+ or higher power delivery on applicable ports. • At least one high-speed uplink interface of 10 Gbps or equivalent. • Support for VLANs, network management, traffic prioritization and basic network security features. • Suitable for connecting wireless access points and other campus network devices. Note: Please quote unit price.

Item: NGFirewall – High Capacity

UNSPSC: Firewall network security equipment

Specifications / Requirements:

Minimum Technical Specifications • Enterprise next-generation firewall suitable for university or large campus network deployment. • Minimum firewall throughput of 25 Gbps and security/next-generation firewall throughput of 10 Gbps. • Support for at least 10 million concurrent sessions and 200,000 new sessions per second. • Support for at least 20,000 IPsec VPN tunnels. • High-speed network interfaces, including at least 8 interfaces supporting 1/10 Gbps or equivalent capacity, with additional interfaces as required. • Support for IPv4/IPv6, routing, NAT, VLANs, application control, intrusion prevention, malware protection, URL filtering and VPN services. • Centralized policy management, monitoring, logging and reporting. • High-availability configuration and regular security/software updates. Note: Please quote unit price.

Item: NGF – Medium Capacity

UNSPSC: Firewall network security equipment

Specifications / Requirements:

Minimum Technical Specifications • Enterprise next-generation firewall suitable for small and medium university or campus deployments. • Minimum firewall throughput of 5 Gbps and security/next-generation firewall throughput of 3 Gbps. • Support for at least 4 million concurrent sessions and 100,000 new sessions per second. • Support for at least 10,000 IPsec VPN tunnels. • Network interfaces supporting Gigabit Ethernet and/or 10 Gigabit Ethernet, with sufficient WAN and LAN connectivity for the intended deployment. • Support for IPv4/IPv6, routing, NAT, VLANs, application control, intrusion prevention, malware protection, URL filtering and VPN services. • Centralized management, monitoring, logging and reporting, with high availability where required. • Regular security and software updates. Note: Please quote unit price.

Item: Wireless Access Controller – High Capacity

UNSPSC: WLAN wireless access network equipment and components

Specifications / Requirements:

Minimum Technical Specifications • Enterprise wireless controller or equivalent centralized wireless management solution suitable for large campus deployments. • Support Wi-Fi 7 access points and backward compatibility with existing Wi-Fi 5 and Wi-Fi 6 access points. • Capacity to manage at least 512 access points, scalable to at least 1,024 access points through licensing or expansion. • Support for at least 10,000 concurrent wireless users/clients. • Provide sufficient network interfaces and forwarding capacity to support the intended deployment without creating a performance bottleneck. • Centralized access point configuration, monitoring, policy management and radio-frequency management. • Support secure authentication, 802.1X, RADIUS, WPA2/WPA3, guest access, roaming, quality of service and wireless threat monitoring/protection. • Support high availability, centralized monitoring and integration with the proposed network management platform. • The manufacturer of the proposed access point shall have been positioned as a Leader in the Gartner Magic Quadrant in at least one of the last three years. • The controller must support management of both newly proposed Wi-Fi 7 access points and existing Wi-Fi 5/6 access points during the transition period. Note: Please quote unit price.

Item: Wireless Access Controller – Standard Capacity

UNSPSC: WLAN wireless access network equipment and components

Specifications / Requirements:

Specs givenMinimum Technical Specifications • Enterprise wireless controller or equivalent centralized wireless management solution suitable for small and medium campus deployments. • Support Wi-Fi 7 access points and backward compatibility with existing Wi-Fi 5 and Wi-Fi 6 access points. • Capacity to manage at least 256 access points, scalable to at least 512 access points through licensing or expansion. • Support for at least 4,000 concurrent wireless users/clients. • Provide sufficient network interfaces and forwarding capacity for the intended deployment. • Centralized access point configuration, monitoring and policy management. • Support secure authentication, 802.1X, RADIUS, WPA2/WPA3, guest access, roaming, quality of service and wireless threat monitoring/protection. • The manufacturer of the proposed access point shall have been

positioned as a Leader in the Gartner Magic Quadrant in at least one of the last three years. • Scalable capacity and high availability where required, with integration into the proposed network management platform. • The controller must support management of both newly proposed Wi-Fi 7 access points and existing Wi-Fi 5/6 access points during the transition period. Note: Please quote unit price

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Item: Core Switch – Standard

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • High-performance managed Layer 3 core switch suitable for a university or campus network. • Support for at least 48 high-speed 10 Gigabit Ethernet ports and at least 2 high-speed 40/100 Gigabit Ethernet uplink ports, or equivalent port capacity. • Support for IPv4/IPv6 routing, VLANs, link aggregation, quality of service, access control and network segmentation. • Support for standard dynamic routing protocols or equivalent routing capabilities. • Non-blocking or appropriately sized switching capacity for the proposed deployment. • Redundant power supplies and cooling components, with centralized monitoring and management. Note: Please quote unit price.

Item: Core Switch – High Capacity

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • High-performance modular or chassis-based Layer 3 core switch suitable for large university or campus network deployments. • Modular chassis with a minimum of five (5) slots for interface and/or service modules. • Support for at least 48 high-speed 10 Gigabit Ethernet ports and at least 4 high-speed 40/100 Gigabit Ethernet ports, or equivalent port capacity. • Support for IPv4/IPv6 routing, VLANs, link aggregation, quality of service, access control and network segmentation. •

Support for standard dynamic routing protocols or equivalent routing capabilities. • Redundant control, power and cooling components, with centralized monitoring and management. Note: Please quote unit price.

Item: Centralized CNM Platform – Primary and DR

UNSPSC: Administration software

Specifications / Requirements:

Minimum Technical Specifications • Centralized management platform for monitoring and managing the proposed wired and wireless network infrastructure. • Support for device discovery/onboarding, configuration management, policy deployment and network topology views. • Provide fault, alarm, availability and performance monitoring, with reporting and analytics. • Support for wireless access point and controller management, where applicable. • Provide role-based user access, configuration backup and restore, and secure integration interfaces. • Support deployment at primary and disaster recovery sites, including data synchronization and recovery capabilities. • Scalable to manage the complete Smart University network environment. • All required licenses, updates and technical support shall be provided for the contract period. Note: Please quote unit price.

Item: UPS

UNSPSC: Power supply

Specifications / Requirements:

Minimum Technical Specifications • Rack-mountable UPS suitable for installation in network racks. • Minimum capacity of 2 kVA. • 230 V AC, single-phase input and output, or compatible equivalent. • Automatic voltage regulation and pure sine-wave output. • Rechargeable internal batteries that are replaceable by service personnel. • Include necessary accessories, monitoring and standard protection features. Note: Please quote unit price.

Item: Optical Fiber – 04 Core Single Mode fiber

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

Specs given in the bidding document.

Item: Optical Fiber – 04 Core Single Mode 9/125, along with already laid duct (Mtr)

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

As per the bidding document.

Item: Optical Fiber – 04 Core Single Mode 9/125, with duct

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

As per the bidding document

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item: Optical Fiber – 24 Core Single Mode

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

As per the bidding document

Item: Optical Fiber – 24 Core Single Mode 9/125, laying in already laid ducts

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

as per the bidding document

Item: Optical Fiber – 24 Core Single Mode 9/125, with duct

UNSPSC: Outdoor fiber optics cable

Specifications / Requirements:

as per the bidding document

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item: UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC

UNSPSC: Cable accessories

Specifications / Requirements:

as per the bidding document

Item: UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC (Mtr)

UNSPSC: Cable accessories

Specifications / Requirements:

As per bidding document

Item: Channel Duct (Local) – PVC Cable Duct (Mtr)

UNSPSC: Cable accessories

Specifications / Requirements:

As per bidding document

Item: Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf

UNSPSC: Cabinets

Specifications / Requirements:

As per bidding document

Item: Wall Mount ODF – with Single Mode Couplers

UNSPSC: Fiber optic distribution box

Specifications / Requirements:

As per bidding document

Item: Power / electric work with proper ducting (includes cables and duct)

UNSPSC: Cable accessories

Specifications / Requirements:

As per bidding document

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item: Patch Panel – 19" Rack Mountable 24 Port

UNSPSC: Patch panel

Specifications / Requirements:

As per bidding document

Item: Bullet Camera 50mm Box/Bullet Camera Bracket (Outdoor-Pole installation, Load 20kg, with loops)

UNSPSC: Closed circuit television CCTV system

Specifications / Requirements:

Bullet Camera – IPC6225-VRZ (50mm) Technical Specification • IPC6225-VRZ bullet network camera with 50mm lens. • Support network-based video monitoring and remote configuration. • Maintain integration with the existing video surveillance platform. • Maintain camera mounting, housing and network connectivity. SLA • Periodic inspection, cleaning and preventive maintenance. • Troubleshoot video quality, connectivity and camera faults. • Repair or replace defective components with original or compatible components. Note: Please quote unit price.

Item: Locally Fabricated Pole – 05FT, 1.0" GI Pipe

UNSPSC: Extension pole

Specifications / Requirements:

As per bidding document

Item: Locally Fabricated Pole – 10FT, 1.5" GI Pipe

UNSPSC: Extension pole

Specifications / Requirements:

As per bidding document

Item: Locally Fabricated Pole – 15FT, 2.5" GI Pipe

UNSPSC: Extension pole

Specifications / Requirements:

As per bidding document

Item: Cable Markers (Route Locators, metal type)

UNSPSC: Identification markers

Specifications / Requirements:

As per bidding document

Item: Earthing Pit

UNSPSC: Earthmoving buckets or its parts or accessories

Specifications / Requirements:

As per bidding document

Item: Power Socket (light plug)

UNSPSC: Lamp sockets

Specifications / Requirements:

As per bidding document

Item: Electrical DB

UNSPSC: Electrical boxes

Specifications / Requirements:

As per bidding document

Item: Circuit Breakers 16/32amp SP

UNSPSC: Circuit breakers

Specifications / Requirements:

As per bidding document

Item: Circuit Breakers 32/40amp TP

UNSPSC: Circuit breakers

Specifications / Requirements:

As per bidding document

Item: Power Cable 2.5mm

UNSPSC: Power cable

Specifications / Requirements:

As per bidding document

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item: Power Cable 3/c 6mm

UNSPSC: Power cable

Specifications / Requirements:

As per bidding document

Item: Flexible Pipe / Electric Piping with laying

UNSPSC: Commercial PVC pipe

Specifications / Requirements:

As per bidding document

Item: PTZ Cameras (IPC6625-Z30-P)

UNSPSC: Closed circuit television CCTV system

Specifications / Requirements:

. PTZ Camera – IPC6625-Z30-P Technical Specification • IPC6625-Z30-P PTZ network camera. • Support pan, tilt and optical zoom functionality. • Support remote camera configuration, monitoring and control. • Maintain integration with the existing video surveillance system. SLA • Periodic inspection, cleaning and preventive maintenance. • Troubleshoot video, network, PTZ movement and zoom-related faults. • Repair or replace defective components with original or compatible components. • Maintain continuous

camera operation and video connectivity. Note: Please quote unit price.

Item: Bullet Cameras 50mm (IPC6225-VRZ)

UNSPSC: Closed circuit television CCTV system

Specifications / Requirements:

Bullet Camera – IPC6225-VRZ (50mm) Technical Specification • IPC6225-VRZ bullet network camera with 50mm lens. • Support network-based video monitoring and remote configuration. • Maintain integration with the existing video surveillance platform. • Maintain camera mounting, housing and network connectivity. SLA • Periodic inspection, cleaning and preventive maintenance. • Troubleshoot video quality, connectivity and camera faults. • Repair or replace defective components with original or compatible components. Note: Please quote unit price

Item: Dome Cameras (IPC6325-WD-VR)

UNSPSC: Closed circuit television CCTV system

Specifications / Requirements:

Dome Camera – IPC6325-WD-VR Technical Specification • IPC6325-WD-VR dome network camera. • Support network-based video monitoring and remote configuration. • Maintain integration with the existing video surveillance platform. • Maintain camera housing, mounting and network connectivity. SLA • Periodic inspection, cleaning and preventive maintenance. • Troubleshoot video, connectivity and camera faults. • Repair or replace defective components with original or compatible components. Note: Please quote unit price.

Item: NVR VCN500 Small, Medium & Large Universities

UNSPSC: Digital video recorders

Specifications / Requirements:

Network Video Recorder (NVR) – VCN500 Deployment: Small, Medium and Large Universities. Technical Specification • VCN500 Network Video Recorder. • Maintain recording, storage management, playback and retrieval of surveillance footage. • Support integration with installed IP cameras. • Maintain network connectivity and centralized video management. SLA • Monitor NVR health, recording status and storage utilization. • Troubleshoot recording, playback, storage and connectivity faults. • Maintain firmware, configuration and system availability. • Repair or replace defective components with original or compatible components. Note: Please quote unit price.

Item: NVR (VCN3020) – Extra-large universities

UNSPSC: Digital video recorders

Specifications / Requirements:

Network Video Recorder (NVR) – VCN3020 Deployment: Extra-Large Universities. Technical Specification • VCN3020 Network Video Recorder. • Maintain centralized video recording, storage management, playback and retrieval. • Support integration with the installed surveillance infrastructure. • Maintain system configuration, network connectivity and recording continuity. SLA • Periodic health checks and preventive maintenance. • Monitor recording services, storage utilization and system performance. • Troubleshoot recording, playback and hardware faults. • Repair or replace defective components with original or compatible components. Note: Please quote unit price.

Item: RH1288 V3 – Eduroam service, Campus

UNSPSC: Wireless fidelity base stations Wifi

Specifications / Requirements:

Server – RH1288 V3 (Eduroam Campus Service) Technical Specification • RH1288 V3 rack-mount server. • Maintain the existing Eduroam campus service and associated server configuration. • Maintain operating system, network interfaces, storage and server hardware. • Ensure compatibility with the existing campus authentication and network environment. SLA • Monitor server health, resource utilization and service availability. • Maintain operating system and server configuration. • Troubleshoot hardware, operating system and Eduroam service-related faults. • Repair or replace defective hardware components with original or compatible components. Note: Please quote unit price.

Item: Regional Storage (OceanStor 2800 V3) – 1.74 PB

UNSPSC: Cold storage services

Specifications / Requirements:

As per bidding document

Item: Decoder

UNSPSC: Encoder decoder equipment

Specifications / Requirements:

As per bidding document

Item: Implementation Services

UNSPSC: Point of sale hardware installation or implementation service

Specifications / Requirements:

As per bidding document

Item: Technical Training for relevant staff

UNSPSC: Personnel skills training

Specifications / Requirements:

Video Decoder Technical Specification • Existing video decoder. • Maintain decoding and display of video streams from the installed surveillance system. • Maintain integration with existing NVRs, cameras and video management platform. • Maintain video output, connectivity and display functionality. SLA • Periodic inspection and preventive maintenance. • Troubleshoot video decoding, display and connectivity faults. • Maintain configuration and compatibility with the existing surveillance system. • Repair or replace defective components with original or compatible components. Note: Please quote unit price.

Lot Title : Lot-2: Equipment Required for New Sites/ Buildings for Expansion & Recurring

Item: Access Point – Dual band

UNSPSC: Wireless access point

Specifications / Requirements:

Minimum Technical Specifications • Enterprise-grade indoor wireless access point supporting Wi-Fi 7 or an equivalent/latest applicable standard. • Minimum 2x2 MIMO capability. • Support simultaneous dual-band operation on the 2.4 GHz and 5 GHz frequency bands. • Support for secure wireless access, multiple users and reliable campus connectivity. • Centralized configuration, monitoring and management through the proposed wireless management solution. • Suitable for integration with the proposed wireless network management solution. Note: Please quote unit price.

Item: Access Points

UNSPSC: Wireless access point

Specifications / Requirements:

Minimum Technical Specifications • Enterprise-grade outdoor access point suitable for outdoor and industrial environments, supporting Wi-Fi 7 or an equivalent/latest applicable standard. • Minimum 2x2 MIMO capability. • Support simultaneous dual-band operation on the 2.4 GHz and 5 GHz frequency bands. • Support external outdoor antennas, including omnidirectional or directional antennas, as required for the deployment. • Weather-resistant enclosure suitable for the intended outdoor installation environment. • Support for secure wireless access, multiple users and centralized configuration and monitoring. • Suitable for integration with the proposed wireless management solution. • The external antennas shall be compatible with the offered access point and suitable for outdoor installation. Note: Please quote unit price

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Item: Outdoor / Industrial Access Point

UNSPSC: Wireless access point

Specifications / Requirements:

As per bidding document

Item: 8-Port PoE+ Access Switch

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • Managed Ethernet access switch with at least 8 access ports supporting 2.5 Gbps or higher speeds. • Support for PoE+ or higher power delivery on applicable ports. • At least one high-speed uplink interface of 10 Gbps or equivalent. • Support for VLANs, network management, traffic prioritization and basic network security features. • Suitable for connecting wireless access points and other campus network devices. Note: Please quote unit price.

Item: PoE+ Access Switch 24 Port

UNSPSC: Network switches

Specifications / Requirements:

Minimum Technical Specifications • Managed Ethernet access switch with at least 24 access ports supporting 2.5 Gbps or higher speeds. • Support for PoE+ or higher power delivery on applicable ports. • At least one high-speed uplink interface of 10 Gbps or equivalent. • Support for VLANs, network management, traffic prioritization and basic network security features. • Suitable for connecting wireless access points and other campus network devices. Note: Please quote unit price.

Item: Wireless Access Controller – High Capacity

UNSPSC: WLAN wireless access network equipment and components

Specifications / Requirements:

As per bidding document

Item: Wireless Access Controller – Standard Capacity

UNSPSC: WLAN wireless access network equipment and components

Specifications / Requirements:

As per bidding document

Item: Core Switch – Standard

UNSPSC: Network switches

Specifications / Requirements:

As per bidding document

Item: Core Switch – High Capacity

UNSPSC: Network switches

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Specifications / Requirements:

As per bidding document

Item: Centralized CNM Platform – Primary and DR (Cisco L-ISE-BSE-PLIC, LMS-4.0-WIN-K or equivalent)

UNSPSC: Cloud network devices as a service

Specifications / Requirements:

As per bidding document

Item: UPS

UNSPSC: Power supply

Specifications / Requirements:

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Item: Optical Fiber – 04 Core Single Mode 9/125

UNSPSC: Optical fiber identifiers

Specifications / Requirements:

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Item: Optical Fiber – 24 Core Single Mode 9/125

UNSPSC: Optical fiber identifiers

Specifications / Requirements:

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Item: UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC

UNSPSC: Aerial cable

Specifications / Requirements:

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Item: Channel Duct (Local) – PVC Cable Duct

UNSPSC: Cable handler

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Specifications / Requirements:

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Item: Wall Mount Cabinet – 19" Single Section 15U, indoor, 2 Fans & One Shelf

UNSPSC: Cabinets

Specifications / Requirements:

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Item: Wall Mount ODF – with Single Mode Couplers

UNSPSC: Fiber optic distribution box

Specifications / Requirements:

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Item: Power / electric work with proper ducting (includes cables and duct)

UNSPSC: Cable joint

Specifications / Requirements:

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Item: Patch Panel – 19" Rack Mountable 24 Port

UNSPSC: Patch panel

Specifications / Requirements:

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Item: Cable Markers (Route Locators, metal type)

UNSPSC: Markers

Specifications / Requirements:

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Item: Flexible Pipe / Electric Piping with laying

UNSPSC: Duplex steel pipe bend

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Specifications / Requirements:

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Item: Implementation Services

UNSPSC: Point of sale hardware installation or implementation service

Specifications / Requirements:

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Item: Technical Training

UNSPSC: Personnel skills training

Specifications / Requirements:

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PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Price Schedule

For Individual Items

#	Item Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

A. General

1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

a. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

b. The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 35 hereunder.

c. “Authority” means Public Procurement Regulatory Authority.

d. The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC.

e. “Completion date” means the date of completion of the Contract by the Bidder as certified by the Procuring Agency.

f. “Procuring Agency” means:-

a. any Ministry, Division, Department or any Office of the Government;

b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;.

g. “The Contract” means an agreement enforceable by law;

h. “The Contract Price” means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;

i. “Ancillary Services” means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;

j. “GCC” means the General Conditions of Contract contained in this section;

k. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

l. **“**Day” means calendar day unless indicated otherwise.

m. “Defective Goods” are those goods which are below standards, requirements or specifications stated by the Contract.

n. “Delivery” means the transfer of the goods from the supplier equipment, machinery, and /or other materials which the Supplier is required to supply to the Procuring Agency under Contract.

o. “Effective Date” means the date on which this Contract comes into force and effect.

p. “Force Majeure” means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

q. The Bidder” means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;

r. “The Project Site,” where applicable, means the place or places named in Bids Data Sheet and technical Specifications;

s. “Government” means the Government of Pakistan;

t. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Goods.

u. The “Services” means the work to be performed by the Bidder pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Bidder’s Bids;

v. “Party” means the Procuring Agency or the Bidder, as the case may be, and “Parties” means both of them;

w. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

x. “Completion Date” means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

y. “In Writing” means communicated in written form with proof of receipt;

z. “Local Currency” means the currency of Pakistan;

a. “Origin” means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.

b. “Specification” means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the Procuring Agency.

c. “Procuring Agency” means: -
any Ministry, Division, Department or any Office of the Federal Government;
any authority, corporation, body or organization established by or under a Federal Law or which is owned or controlled by the Federal Government;

2. Application and Interpretation

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

3. Applicable Law

3.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

4. Governing Language

4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged between the Bidder and the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5. Notices

5.1 Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

6. Standard

6.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, the American Standards (such as ACI, IEEE, ASME, etc.) or the Pakistani standards such as PSQCA Such standards shall be the latest issued by the concerned institution.

7. Delivery/Location

7.1 The Goods shall be delivered to such locations as the Procuring Agency may approve and as specified in SCC.

8. Authorized Representatives / Authority of Member in charge

8.1 Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Bidder may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

8. Effectiveness of Contract

8.1 This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.

9. Commencement of the Contract

9.1 The Bidder shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

10. Program

10.1 Before commencement of the Contract, the Bidder shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

11. Starting Date/Expiration Date

11.1 The Bidder shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

11.2 Unless terminated earlier pursuant to Clause **GCC 16** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

12. Entire Agreement

12.1 This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

13. Modification

13.1 Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any Bids for modification or variation made by the other Party.

13.2 In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

14. Force Majeure

14.1 Definition

For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

14.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

14.3 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure. However, such period shall not exceed sixty (60) days.

14.4 Payments

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Bidder shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

15. Termination

15.1 By the Procuring Agency

The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Bidder in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;

d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

15.2 By the Bidder

The Bidder may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.

b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.

c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.

d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

1. The Bidder shall deliver the product and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

16.2 Law Applicable to Goods

The Bidder shall deliver the goods in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

The remuneration of the Bidder shall constitute the Bidder's sole remuneration in connection with this Contract or the Services, and the Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Bidder shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

The Bidder agree that, during the term of this Contract and after its termination, the Bidder and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Goods for any project resulting from or closely related to the Services.

17.3 Prohibition of Conflicting Activities

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

18. Confidentiality

18.1 Except with the prior written consent of the Procuring Agency, the Bidder and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the contract.

19. Insurance to be Taken Out by the Bidder

19.1 The Bidder(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, loss or damage, and for the coverage, as shall be specified in the SCC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing

that such insurance has been taken out and maintained and that the current premiums have been paid.

20. Bidder's Actions Requiring Procuring Agency's Prior Approval

20.1 The Bidder shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

(a) appointing such members of the Personnel not provided by the Bidder;

(b) changing the Program of activities; and

(c) any other action that may be specified in the SCC.

21. Reporting Obligations

21.1 The Bidder shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in **SCC**. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 16.**

22.2 Correction for Over-payment

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Bidder by adjusting the next payment certificate. The Bidder shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in SCC.

22.3 Lack of performance penalty

If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Bidder. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the SCC.

23. Performance Guarantee

23.1 The Performance Security (or Guarantee) shall be provided to the Procuring Agency no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form acceptable to the Procuring Agency as specified in SCC, and denominated in the types and proportions of the currencies in which the Contract Price is payable as specified in the SCC.

23.2 Within Seven (07) days from the issuance of acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape of ------- at the discretion of the PA in the amount **specified in SCC.** In case the amount of Bids security is equal or greater than

23.3 The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

23.4 The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in SCC.

23.5 The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

23.6 The bid security of the successful bidder shall not be substituted with the Performance Guarantee.

24. Fraud and Corruption

24.1 The Procuring Agency requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

25. Sustainable Procurement

25.1 The Bidder shall conform to the sustainable procurement contractual provisions, if and as specified in the SCC.

D. Bidder's Personnel

26. Description of Personnel

26.1 The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

27. Removal and/or Replacement of Personnel

27.1 Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Personnel, the Bidder shall provide as a replacement a person of equivalent or better qualifications.

27.2 If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Bidder shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

27.3 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

28.1 The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Bidder such assistance and exemptions as specified in the SCC.

29. Change in the Applicable Law

29.1 If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the related Services rendered by the Bidder, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the SCC.

30. Services and Facilities

30.1 The Procuring Agency shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described , at the times and in the manner specified in the SCC or terms of reference.

30.2 In case that such services, facilities and property shall not be made available to the Bidder, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Bidder for the performance of the Services, (ii) the manner in which the Bidder shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Bidder as a result thereof.

F. Payments to the Bidder

31. Contract Price

31.1 The price payable shall be in Pakistani Rupees unless otherwise specified in the SCC. Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

32. Terms and Conditions of Payment

32.1 Payments will be made to the Bidder according to the payment schedule stated in the SCC and as per actual invoice submitted by the Bidder.

32.2 Unless otherwise stated in the SCC, the advance payment shall be made against the provision by the Bidder of a bank guarantee for the same amount, and shall be valid for the period stated in the SCC. Any other payment shall be made after the conditions listed in the SCC for such payment have been met, and the Bidder have submitted an invoice to the Procuring Agency specifying the amount due.

33. Currency of Payment

33.1 Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

G. Quality Control

34. Identifying Defects

34.1 The principle and modalities of Inspection of the Goods by the Procuring Agency shall be as indicated in the SCC. The Procuring Agency shall check the Bidder’s performance and notify him of any Defects that are found. Such checking shall not affect the Bidder’s responsibilities. The Procuring Agency may instruct the Bidder to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the SCC.

35. Correction of Defects, and

Lack of Performance Penalty

35.1 The Procuring Agency shall give notice to the Bidder of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice a Defect is given, the Bidder shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

35.3 If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the Bidder will pay this amount, and a Penalty for Lack of Performance.

36. Taxes and Duties

36.1 A Supplier shall be entirely responsible for all taxes, duties, fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

H. Settlement of Disputes

37. Alternate Dispute Resolution

37.1 Upon the commencement of the Procurement Contract, any disputes arising between the contracting parties shall be resolved in accordance with Rule 66 of the Public Procurement Rules, 2026.

37.2 The procuring agency may refer the matter to the Chief Justice Islamabad High Court or Managing Director PPRA or the Secretary Ministry of Law & Justice for appointment of Arbitrator.

37.3 The fee for the Arbitrator shall be specified in Pak Rupees as determined by the appointing authority which shall be borne and shared equally by the contracting parties.

38. Change Orders

The Procuring Agency may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

a)Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
b)The method of shipment or packing;
c)The place of delivery; and/or
d)The Services to be provided by the Supplier.

39. Contract Amendenments

39.1 Subject to GCC Clause 32, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

40. Sub-Contracts

40.1 The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: **Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director H-9, Islamabad Capital Territory**

The Supplier is:

The title of the subject procurement is: **Request for Proposal (RFP) for Integrated Service Level Agreement (SLA) Extension and Technology Refresh at Higher Education Institutions (HEIs)**

Number of GC Clause 3

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 4

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 5

Notices:

The addresses for the notices are:

The Authority:

Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director H-9, Islamabad Capital Territory
+92-519-040-2256
saashah@hec.gov.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder’s Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director
H-9, Islamabad Capital Territory
+92-519-040-2256
saashah@hec.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 17

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17**.**

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.10%** to **0.20%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the

Authority.

Number of GC Clause 23

Performance Guarantee:

Instrument of Performance Guarantee shall be in the Name of : **Higher Education Commission - HEC**

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Bank Guarantee**

Number of GC Clause 32

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 33

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 34

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

Delivery & Documents

Copies of the Supplier’s invoice showing Goods’ description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer's or Supplier's Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier's Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: Payment: Payment shall be made in the following manner: i. Advance Payment: 15% percent of the Contract Price can be paid and upon submission of an equal amount of bank guarantee subject to availability of fund. The yearly installment payment shall to adjusted after delivery of advance payment to supplier.

ii. Bidders shall quote the total cost of the Contract including Goods (local or abroad) and Services, over a period of seven (07) years, through twenty-eight (28) equal quarterly installments, equivalent to seven (07) equal annual installments

iii. Payments shall be made quarterly in arrears, subject to successful completion of the relevant quarterly milestones, verification of deliverables, and certification by HEC or its authorized representative. Each quarterly payment shall constitute three (03) monthly instalments of the quoted amortized equipment cost, together with any applicable service charges, as specified in the Contract.

iv. If there is a delay in HEI / HEIs part in quarterly technology refresh and not pertaining towards the successful bidder, the quarterly payment will be made as per the schedule defined in the contract. Payment of shall be made in :[PKR] within thirty (30) days of presentation of claim supported by a certificate from the PE declaring that the Goods have been delivered and that all other contracted Services have been performed.

Number of GC Clause 37

Following is the guidance for Dispute Resolution

(a) For Contracts to be entered with foreign Contractor/ Service Provider:

All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.

(b) For Contracts to be entered with nationals of Pakistan:

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.

ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.

iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration in accordance with GCC clause 38.

iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute.
v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P190104***

Alternative No.: **[insert identification No if this is a Bid for an alternative]**

To: **Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director H-9, Islamabad Capital Territory**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Signed: [insert signature of person whose name and capacity are shown] In the capacity of
[insert legal capacity of person signing the Bid Securing Declaration]

Name: [insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the Bid for and on behalf of: [insert complete name of Bidder]

Dated on day of , [insert date of signing]
Corporate Seal (where appropriate)

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director H-9, Islamabad Capital Territory**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Request for Proposal (RFP) for Integrated Service Level Agreement (SLA) Extension and Technology Refresh at Higher Education Institutions (HEIs) (*P190104*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the

provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Performance Guarantee Form

Performance Guarantee Form

To: **Higher Education Commission - HEC (Higher Education Commision (HEC)), Assistant Director H-9, Islamabad Capital Territory**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

_____

[address]

_____

[date}

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure

Technical Requirement

Information (Read-Only)

See Form Under Additional Forms and Documents: **Technical Requirement** (page number: 127)

Supply & Installation Cost Table (Lot 1 & Lot 2)

Supply & Installation Cost Table (Lot 1 & Lot 2)

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Supply & Installation Cost Table (Lot 1 & Lot 2)** (page number: 157)

Lot-1 -List of HEIs for Wi-Fi Deployment

Lot-1 -List of HEIs for Wi-Fi Deployment

Information (Read-Only)

See Form Under Additional Forms and Documents: **Lot-1 -List of HEIs for Wi-Fi Deployment** (page number: 179)

Lot-1 List of HEIs for IP Surveillance

Lot-1 List of HEIs for IP Surveillance

Information (Read-Only)

See Form Under Additional Forms and Documents: **Lot-1 List of HEIs for IP Surveillance** (page number: 181)

Lot-2 WI-Fi Deployment list of HEIs

Lot-2 WI-Fi Deployment list of HEIs

Information (Read-Only)

See Form Under Additional Forms and Documents: **Lot-2 WI-Fi Deployment list of HEIs** (page number: 184)

Additional Technical Requirements

Additional Technical Requirements

Information (Read-Only)

See Form Under Additional Forms and Documents: **Additional Technical Requirements** (page number: 186)

Service Level Agreement (SLA)

Service Level Agreement (SLA)

Information (Read-Only)

See Form Under Additional Forms and Documents: **Service Level Agreement (SLA)** (page number: 191)

Implementation Schedule

Implementation Schedule

Information (Read-Only)

See Form Under Additional Forms and Documents: **Implementation Schedule** (page number: 200)

Schedule of Requirements

Schedule of Requirements

Information (Read-Only)

See Form Under Additional Forms and Documents: **Schedule of Requirements** (page number: 207)

Supply & Installation Cost Table [Lot 1 & Lot 2)

Supply & Installation Cost Table [Lot 1 & Lot 2)

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Supply & Installation Cost Table [Lot 1 & Lot 2)** (page number: 209)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 231)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 232)

Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 234)

Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 235)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 237)

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

Technical Requirement

A. *Background*

01.	**The Procuring Agency;** **1. Overview of the Agency's Legal Basis, Organizational Role and Core Objectives:** The Higher Education Commission (HEC), Pakistan, is a statutory body established under the Higher Education Commission Ordinance, 2002. HEC is responsible for facilitating the development, regulation, and promotion of higher education in Pakistan, including quality assurance, academic standards, research, innovation, and the development of higher education institutions. Its core objectives include strengthening the higher education sector through institutional development, technology enablement, research support, and improved access to quality education. **2. Overview of Stakeholders and Decision-Making Arrangements** The key stakeholders include HEC, participating public-sector universities and Higher Education Institutions (HEIs), university IT departments, and the designated technical and administrative teams. HEC shall act as the Procuring Agency and Contract Management Authority, responsible for procurement, technical evaluation, contract administration, monitoring, and approval of deliverables. The respective HEIs shall facilitate site access, coordinate with the successful bidder, and verify implementation and service delivery. All major technical, financial, contractual, and implementation decisions shall be made by HEC through its authorized officials and committees in accordance with applicable procurement rules and organizational procedures.
02.	**Business Objectives of the Procuring Agency** **1. Current Business Objectives, Procedures and Processes** HEC aims to ensure reliable, secure, and uninterrupted ICT services across participating Higher Education Institutions (HEIs). The existing Smart University infrastructure includes campus-wide Wi-Fi connectivity, passive network infrastructure, and IP surveillance systems. Current operations involve SLA management, preventive and corrective maintenance, fault resolution, infrastructure monitoring, equipment repair and replacement, and coordination with HEIs for service restoration. . **2. Changes in Objectives, Procedures and Processes:** The proposed Contract aims to extend SLA and support services for existing infrastructure and undertake a phased technology refresh of Wi-Fi infrastructure at participating HEIs. It will also ensure continued

maintenance and repair of passive network infrastructure and, under Lot-1, IP surveillance systems. The Contract will provide standardized maintenance procedures, improved fault monitoring, asset management, defined service-level commitments, and support for new institutions or extensions of existing infrastructure to new buildings within the same campus.

3. **Expected Benefits of the System:**

The expected benefits include improved Wi-Fi capacity and performance, reliable campus connectivity, extended service life of existing infrastructure, reduced downtime, improved maintenance and fault resolution, protection of existing ICT investments, enhanced surveillance support under Lot-1, and scalable infrastructure to support future academic and administrative digital services across HEIs.

03. **Acronyms Used in These Technical Requirements**

[compile: a table of organizational and technical acronyms used in the Requirements. This can be done, for example, by extending the following table]

Term	Explanation
bps	bits per second
cps	characters per second
DBMS	Database Management System
DOS	Disk Operating System
dpi	dots per inch
Ethernet	IEEE 802.3 Standard LAN protocol
GB	Gigabyte
Hz	Hertz (cycles per second)
IEEE	Institute of Electrical and Electronics Engineers
ISO	International Standards Organization
KB	Kilobyte
kVA	Kilovolt ampere
LAN	Local area network
lpi	lines per inch
lpm	lines per minute
MB	Megabyte
MTBF	Mean time between failures

NIC	Network interface card
NOS	Network operating system
ODBC	Open Database Connectivity
OLE	Object Linking and Embedding
OS	Operating system
PCL	Printer Command Language
ppm	pages per minute
PS	PostScript -- Adobe page description language
RAID	Redundant array of inexpensive disks
RAM	Random access memory
RISC	Reduced instruction-set computer
SCSI	Small Computer System Interface
SNMP	Simple Network Management Protocol
SQL	Structured Query Language
TCP/IP	Transmission Control Protocol / Internet Protocol
V	Volt
WLAN	Wireless LAN
PERN	Pakistan Education & Research Network
Tech Refresh	Technology Refresh
HEI	Higher Education Institute (including Universities, Campuses, Sub campuses, degree awarding colleges, HEC offices)
PO	Purchase Oder (issued directly from customer)

B. *Business Functions and Performance Requirement*

01. **Business Requirements to Be Met by the Information System**

1. Business Processes and Procedures to Be Supported:

The Information System shall support the SLA extension, technology refresh, operation, maintenance, repair, replacement, and integration of HEC's existing Smart University ICT infrastructure across participating Higher Education Institutions (HEIs). The procurement shall be divided into the following two lots:

a) Lot-1 SLA extension and technology refresh of Smart University Wi-Fi infrastructure, SLA and maintenance of passive network

infrastructure, and SLA, maintenance, repair, and replacement of IP surveillance infrastructure.

b) Lot-2: SLA extension and technology refresh of Smart University Wi-Fi infrastructure, and SLA, maintenance, repair, and replacement of passive network infrastructure

The System shall support the following business processes:

- Technology refresh of existing Wi-Fi infrastructure, including equipment replacement, configuration, optimization, integration, and commissioning.
- Extension of SLA and provision of preventive and corrective maintenance for existing Wi-Fi and passive network infrastructure.
- Fault reporting, monitoring, troubleshooting, repair, and replacement within defined SLA timelines.
- Maintenance, repair, replacement, and integration of existing IP cameras, NVRs, outdoor switches, fibre infrastructure, and centralized surveillance storage (Lot-1).
- Reuse and optimization of existing infrastructure to minimize unnecessary replacement and additional expenditure.
- Network performance monitoring, asset inventory management, technical documentation, and periodic reporting.
- Provision of technical solutions and associated services for new institutions or extensions of existing infrastructure to new buildings within the same campus.
- Testing, commissioning, and acceptance of refreshed or newly deployed infrastructure at designated HEIs.

2. Applicable Legal Codes and Regulations:

The procurement, implementation, and performance of the Contract shall comply with applicable laws, rules, regulations, and standards of Pakistan, including:

- Public Procurement Regulatory Authority (PPRA) Rules, 2026, and applicable amendments.
- Applicable HEC policies, procedures, technical standards, and administrative instructions.
- Relevant international networking and structured cabling standards, including IEEE, ISO/IEC, and TIA/EIA standards, as applicable.
- Applicable cybersecurity, information security, data protection, and surveillance-related requirements of the Government of Pakistan.
- Contractual terms, technical specifications, SLA requirements, and service delivery obligations prescribed in the RFP.

The relevant technical standards, contractual requirements, and applicable regulatory references shall form part of the Technical Requirements and Contract Documents, as appropriate.

02.	**Functional Performance Requirements of the Information System** The Information System shall meet the following functional and performance requirements at the respective HEIs: **1. SLA Extension and Support Services – Lot-1 and Lot-2** • Ensure continued availability and operational performance of the existing Smart University Wi-Fi and passive network infrastructure throughout the Contract period. • Provide comprehensive preventive and corrective maintenance, technical support, fault diagnosis, troubleshooting, repair and replacement of faulty equipment and components. • Establish and maintain an effective fault reporting, escalation and resolution mechanism in accordance with the defined SLA. • Provide timely response and restoration of services within the prescribed SLA timelines. • Conduct periodic preventive maintenance to minimize service interruptions and ensure infrastructure reliability. • Maintain adequate technical resources, tools and spare parts to ensure uninterrupted support services at participating HEIs. • Maintain updated asset inventories, fault records, maintenance logs and service history for each HEI. • Provide periodic SLA performance reports covering service availability, incidents, response and resolution times, preventive maintenance and outstanding fault **2. Wi-Fi Infrastructure – Lot-1 and Lot-2** • Undertake technology refresh of existing Wi-Fi infrastructure at HEIs as assigned by HEC. • Replace existing Wi-Fi equipment, where required, with suitable updated technology in accordance with the Technical Specifications. • Ensure seamless integration and compatibility with existing network infrastructure, authentication services, RADIUS and eduroam. • Maintain required wireless coverage, signal strength, throughput, roaming and concurrent-user performance. • Configure, optimize, test and commission refreshed Wi-Fi infrastructure without unnecessary disruption to ongoing services. • Provide warranty, technical support and maintenance for refreshed equipment throughout the applicable Contract period. **3. Passive Network Infrastructure – Lot-1 and Lot-2**

- Maintain the operational availability and performance of existing fibre-optic cables, structured cabling, ducts, poles, cabinets, racks and associated passive infrastructure.
- Conduct periodic inspections and preventive maintenance to identify and address potential faults.
- Repair or replace damaged and faulty passive infrastructure to restore connectivity within the defined SLA timelines.
- Ensure that repaired or replaced infrastructure meets the required connectivity and transmission performance standards.
- Maintain updated records of infrastructure faults, repairs, replacements and maintenance activities.

4. IP Surveillance Infrastructure – Lot-1 Only

- Ensure continued operational availability of the existing IP surveillance infrastructure, including cameras, NVRs, outdoor switches, fibre links, cabinets and centralized storage.
- Provide preventive and corrective maintenance, troubleshooting, repair and replacement of faulty surveillance equipment.
- Ensure proper functioning of live video monitoring, recording, playback and retrieval.
- Maintain compatibility and integration with the existing surveillance management platform and centralized storage.
- Resolve camera, recording, connectivity and storage-related faults within the prescribed SLA response and restoration timelines.

5. Service Availability and SLA Performance – Both Lots

- Maintain service availability in accordance with the SLA targets specified in the RFP.
- Provide a dedicated support mechanism for incident reporting, monitoring, escalation and resolution.
- Ensure compliance with defined response times, resolution times, service restoration targets and preventive maintenance schedules.
- Submit periodic performance reports to HEC and the respective HEIs for verification.
- Performance shall be measured against agreed SLA indicators, with applicable service credits or penalties enforced in accordance with the Contract.

6. New Institutions and Infrastructure Extensions

For new institutions or extensions of existing infrastructure to new buildings within the same campus, the Bidder shall provide the required technical solution, integration, deployment and associated support services in accordance with the Contract.

	7. Performance Measurement Conditions Performance shall be assessed based on service availability, fault response and resolution times, maintenance compliance, network performance, infrastructure condition and overall service continuity at each HEI. Detailed SLA targets, availability percentages, response and restoration timelines, and applicable performance indicators shall be specified in the Technical Specifications and SLA.
3.	## *Related Information Technology Issues and Initiatives* The proposed Information System shall ensure backward compatibility, seamless integration and continued operation of the existing ICT infrastructure deployed at the respective HEIs. The successful Bidder shall assess the existing infrastructure, technologies, configurations, interfaces and dependencies before undertaking SLA extension, maintenance, repairs, replacements or Wi-Fi technology refresh. **1. Compatibility with Existing Infrastructure – Lot-1 and Lot-2:** The successful Bidder shall ensure that all supplied, replacement or refreshed hardware, software and components remain compatible with existing network infrastructure and management systems. All maintenance, repair and replacement activities shall preserve existing functionality and minimize disruption to ongoing services. Unnecessary replacement of functional infrastructure shall be avoided. 2. **IP Surveillance Compatibility – Lot-1 Only** The successful Bidder shall maintain backward compatibility and seamless integration of existing and any new or replacement IP cameras, NVRs, storage components and associated equipment with the existing surveillance system, including its video management platform, recording, monitoring, playback and centralized storage facilities. The successful Bidder shall provide all necessary hardware, software, licenses, interfaces, configuration, integration, testing and commissioning required to ensure full interoperability, in accordance with the Contract. **3. Warranty and Support Responsibility – Lot-1 Only**

The successful Bidder shall ensure that all refreshed, supplied or replacement equipment remains compatible and operational throughout the applicable warranty and support period. Any compatibility or integration issues arising from supplied or replacement equipment shall be resolved by the successful Bidder, including necessary technical support, updates, configuration or replacement of incompatible components, without additional cost to HEC.

4. Future ICT Initiatives – Both Lots

The proposed solution shall support scalability and future expansion of ICT infrastructure at the respective HEIs. The successful Bidder shall provide suitable technical solutions for new institutions or extensions of existing infrastructure to new buildings within the same campus, ensuring compatibility with the existing environment, subject to HEC's requirements and approval.

C. *Technical Specification*

01.

General Technical Requirements (GTR)

Cl#	Service Upgradation	Minimum Service requirement		
A1	Technology Refresh, Reuse, Maintenance, Repair, Replacement and Operational Support of Existing Wi-Fi Infrastructure	**i.** General Requirements The Bidder shall be responsible for the assessment, technology refresh, maintenance, repair, replacement and continued operational availability of the existing infrastructure throughout the Contract period. The scope shall include: **ii. Lot-1:** **iii.** Indoor and outdoor Wi-Fi Access Points (APs). As per the RF planning on CAD drawings		

			iv. For the tech refresh, new RF planning and heat map must be vetted by respective HEI and HEC **v.** The tech refresh shall be latest and upgraded equipment of the already installed equipment. **vi.** Wireless LAN Controllers (WLCs) and associated management platforms. **vii.** Network switches and associated active network equipment supporting Wi-Fi. **viii.** Wi-Fi management, monitoring and authentication systems. **ix.** RADIUS, LDAP/Active Directory and eduroam integration. **x.** Existing firewall appliances, associated licenses, subscriptions and security components. **xi.** Associated software, firmware, power supplies, SFPs and accessories. **xii.** **Lot-2:** **xiii.** Indoor and outdoor Wi-Fi Access Points (APs). As per the RF planning on CAD drawings. **xiv.** For the tech refresh, new RF planning and heat map must be vetted by respective HEI and HEC **xv.** The tech refresh shall be latest and upgraded		

				equipment of the already installed equipment. **xvi.** Wireless LAN Controllers (WLCs) and associated management platforms. **xvii.** Network switches and associated active network equipment supporting Wi-Fi. **xviii.** Wi-Fi management, monitoring and authentication systems. **xix.** RADIUS, LDAP/Active Directory and eduroam integration. **xx.** Associated software, firmware, power supplies, SFPs and accessories. **xxi.** Assessment and Reuse of Existing Infrastructure **xxii.** The Bidder shall assess existing Wi-Fi infrastructure under both lots and existing firewall infrastructure under Lot-1. All serviceable equipment shall be reused wherever technically feasible. Equipment requiring refresh, repair or replacement shall be identified and addressed in accordance with the Technical Specifications and approved BoQ. **xxiii. Technology Refresh;**		

			xxiv.	The Bidder shall undertake technology refresh of existing Wi-Fi infrastructure under both lots and firewall infrastructure under Lot-1, as assigned by HEC. The refresh shall include supply, Technology refresh, configuration, integration, optimization, testing and commissioning of required equipment in accordance with the Technical Specifications.		
			xxv.	**SLA, Maintenance, Repair and Replacement**		
			xxvi.	The Bidder shall provide preventive and corrective maintenance, troubleshooting, technical support, repair and, where necessary, replacement of covered Wi-Fi equipment under both lots and firewall equipment under Lot-1 throughout the Contract period.		
			xxvii.	For Lot-1, firewall support shall also include maintenance of security policies, configuration backups, firmware and security updates, license and subscription management, and troubleshooting of		

				firewall-related issues, as applicable.		
			xviii.	**Management, Authentication and Security Integration**		
			xxix.	The Bidder shall maintain the functionality and availability of Wi-Fi management and monitoring systems under both lots. Integration with RADIUS, LDAP/Active Directory and eduroam shall be maintained, as applicable.		
			xxx.	For Lot-1, the Bidder shall additionally maintain firewall management, monitoring, security configurations and integration with the existing network and security infrastructure.		
			xxxi.	**Assessment, Documentation and Reporting**		
				The Bidder shall maintain and submit:		
			xxii.	Site-wise inventory of existing Wi-Fi infrastructure and, for Lot-1, firewall infrastructure.		
			xxiii.	Initial technical assessment and condition reports.		
			xxiv.	Equipment identified for reuse, refresh, repair or replacement.		

			xxv. Technology refresh, Technology refresh and commissioning reports. xxvi. Updated network diagrams, configurations and asset inventories. xvii. Records of faults, repairs, replacements and preventive maintenance. xviii. Wi-Fi performance and coverage testing reports. xxix. For Lot-1, firewall configuration backups, license and subscription records, security update records and maintenance reports. xl. Periodic SLA performance and service availability reports.		
A2	SLA for Passive Infrastructure for 7 years (Reuse, Maintenance, Repair and Upgradation of Existing Passive Infrastructure under SLA)	1. General Requirements: The bidder shall be responsible for the assessment, maintenance, repair, reuse, and continued operational availability of the existing passive network infrastructure deployed at participating universities throughout the SLA period. The scope shall include, but not be limited to: 1. Fiber-optic backbone and distribution cabling. 2. CAT-6 and other existing UTP structured cabling. 3. Ducts, conduits, cable trays, poles, and mounting arrangements.		

			4. Indoor and outdoor network cabinets and equipment racks. 5. Power cabling, power distribution units, earthing, and associated accessories. 6. Fibre termination, jointing, patch panels, connectors, and related accessories 7. Fiber Main holes/ hand holes 2. Reuse of Existing Infrastructure a) The bidder shall conduct a detailed technical assessment of existing passive infrastructure and reuse all serviceable infrastructure wherever technically feasible. b) Existing fibre-optic and structured cabling shall be tested for continuity, attenuation, performance, and compliance with applicable technical standards. c) The bidder shall maintain and ensure the operational availability of all retained infrastructure throughout the SLA period. d) Replacement of existing infrastructure shall be permitted only where it is defective, damaged, technically non-compliant, or unable to		

			meet the required network performance 3. Fibre-Optic Cable Replacement under SLA a) Where existing fibre-optic cable is damaged, defective, degraded, or unable to meet the required transmission performance during the SLA period, the bidder shall be responsible for its repair or replacement. b) The bidder shall replace the affected fibre-optic cable, including associated jointing, termination, splicing, testing, and commissioning, at its own cost, without any additional financial liability to HEC. c) The replacement fibre shall meet or exceed the existing technical specifications and required network capacity. d) The bidder shall ensure restoration of services within the applicable SLA response and resolution timelines. 4. CAT-6 Cabling Upgradation under SLA a) Where existing CAT-6 cabling is found to be inadequate, defective, or unable to support the required network performance, the		

			bidder shall upgrade the affected cabling to CAT-6A or higher (as technically required). b) Such upgradation, including supply, Technology refresh, termination, testing, certification, and commissioning of the upgraded cabling, shall be carried out at the bidder's own cost and without additional charges to HEC. c) The upgraded cabling shall comply with applicable international structured cabling standards and support the required network bandwidth and performance. d) The bidder shall ensure compatibility with existing switches, access points, and other connected network equipment. 6. UPS and Battery Upgradation under SLA a) Where existing UPS systems or batteries are found to be defective, degraded, inadequate, or unable to provide the required backup time and power capacity, the Bidder shall upgrade or replace the affected UPS systems and batteries (One time) with suitable		

			equipment of equal or higher capacity, as technically required. b) b) Such upgradation, including supply, installation, configuration, battery bank replacement, cabling, testing, commissioning, and integration with the existing power infrastructure, shall be carried out at the Bidder's own cost and without additional charges to HEC. c) c) The upgraded UPS systems and batteries shall comply with applicable international standards and meet the required power capacity, backup time, efficiency, and operational performance. d) d) The Bidder shall ensure compatibility with existing power distribution systems, connected ICT equipment, earthing arrangements, and associated infrastructure. 7. Assessment, Documentation and Reporting The bidder shall maintain and submit: a) Carry out OTDR test immediate after signing		

			of contract with successful bidders b) Site-wise passive infrastructure inventory. c) Initial condition assessment and testing reports. d) Records of fibre repairs and replacements. e) Records of CAT-6 to CAT-6A (or higher) upgrades. f) Updated CAD drawings and as-built network diagrams. g) Testing and certification reports for all replaced or upgraded cabling. 8. Financial Responsibility under SLA All repair, replacement, and upgradation activities specified under Sections 3 and 4 shall be deemed included in the bidder's quoted SLA/O&M price. No separate payment, variation, or additional claim shall be admissible for these activities **SLA Requirement: Repair and Replacement of Passive Infrastructure** During the SLA period, in the event of any fault, failure, damage, or malfunction in the existing passive network infrastructure covered under the contract, the bidder shall be responsible for its troubleshooting, repair, and, where necessary, replacement		

			at its own cost, without any additional financial liability to HEC. This obligation shall include, but not be limited to: • Fibre-optic cable repair or replacement, including splicing, jointing, termination, and testing. • CAT-6 cabling repair or replacement and upgradation to CAT-6A or higher, wherever technically required. • Repair or replacement of UTP cables, connectors, patch panels, ducts, conduits, cable trays, poles, cabinets, and associated accessories. • Restoration of network connectivity and services within the applicable SLA response and resolution timelines. All associated materials, labour, transportation, Technology refresh, testing, and commissioning costs shall be deemed included in the bidder's quoted SLA/O&M price. No additional payment shall be admissible for such activities.		
	A3	IP Surveillance Infrastructure SLA, (Reuse, Maintenance, Repair and	1.General Requirements: The bidder shall be responsible for the comprehensive operation, maintenance, repair, replacement, and continued	10.	11.

		Replacement of Existing)	availability of the existing IP surveillance infrastructure deployed across approximately 92 universities/sites. The existing surveillance infrastructure comprises, but is not limited to: a) More than 7,000 deployed IP cameras, including indoor and outdoor cameras. b) Outdoor fibre-optic cabling and associated fibre termination and jointing infrastructure. c) Network Video Recorders (NVRs) installed at approximately 92 universities/sites. d) Centralized storage infrastructure with approximately 10 Petabytes (PB) of storage capacity. e) Outdoor network switches and associated outdoor network cabinets. f) Power supplies, PoE infrastructure, mounting arrangements, connectors, and accessories. g) Centralized video surveillance management and monitoring systems. 2.Reuse and Maintenance of Existing Infrastructure a) The bidder shall conduct an initial technical assessment		

			and prepare a site-wise inventory of all existing IP surveillance equipment and associated infrastructure. b) All existing serviceable IP cameras, NVRs, outdoor switches, fibre-optic cabling, outdoor cabinets, and associated equipment shall be retained and reused wherever technically feasible. c) The bidder shall ensure compatibility and continued integration of all existing cameras and recording systems with the deployed centralized surveillance management and storage infrastructure. d) The bidder shall undertake preventive and corrective maintenance of the entire surveillance infrastructure throughout the SLA period. e) The bidder shall maintain the operational availability of cameras, recording systems, network connectivity, centralized storage integration, and associated surveillance services. 3.Repair and Replacement of Faulty or Damaged Equipment		

			a) In case of any fault, malfunction, failure, or damage to an existing IP camera or associated surveillance infrastructure during the SLA period, the bidder shall be responsible for troubleshooting, repair, and replacement, wherever required, at its own cost. b) This responsibility shall include, but not be limited to: a. Faulty or damaged IP cameras. b. Outdoor fibre-optic cables, including splicing, jointing, and termination. c. Outdoor network switches and PoE switches. d. Outdoor cabinets and associated accessories. e. Camera mounting brackets, poles, connectors, and power supplies. f. NVRs and associated recording equipment. g. Network connectivity and associated surveillance infrastructure.		

			c) All replacement equipment shall meet or exceed the technical specifications and performance of the existing equipment. d) All repair and replacement activities, including supply, transportation, Technology refresh, configuration, testing, and commissioning, shall be carried out at the bidder's own cost, without additional financial liability to HEC. 4.Mandatory Availability of Spare IP Cameras a) The bidder shall maintain a minimum ready stock of 500 or more compatible IP cameras throughout the SLA period for immediate replacement of faulty or damaged cameras. b) The spare stock shall include camera models and specifications compatible with the existing surveillance infrastructure and deployed camera management platform. c) The bidder shall ensure continuous replenishment of spare stock whenever replacement units are deployed, maintaining the minimum required inventory at all times.		

			d) The bidder shall provide HEC with an updated inventory of spare cameras, including model, quantity, serial numbers, and storage location. e) Spare cameras shall be available for immediate deployment to minimize surveillance downtime. 5.Integration of New and Replacement IP Cameras a) Any new or replacement IP camera supplied by the bidder shall be fully compatible and seamlessly integrated with the already deployed surveillance management system, NVR infrastructure, and centralized storage platform. b) The bidder shall ensure compatibility with the existing camera protocols, video management software (VMS), recording arrangements, network architecture, and centralized monitoring system. c) All required licenses, software integration, configuration, firmware, and commissioning activities shall be included in the bidder's		

			quoted SLA/O&M price. d) No camera shall be considered successfully replaced until its live video feed, recording, playback, centralized monitoring, and storage functionality have been verified and accepted by HEC. 6.Centralized Storage and Recording Infrastructure a) The bidder shall maintain the operational availability and integration of the existing centralized surveillance storage infrastructure, having approximately 10 PB storage capacity. b) The bidder shall monitor recording availability, storage utilization, recording retention, system health, and data accessibility. c) Any fault in NVRs, recording services, or associated storage connectivity shall be addressed within the applicable SLA response and resolution timelines. d) The bidder shall ensure continuity of recording and centralized monitoring services during repair, replacement, and maintenance activities.		

			7.SLA Response and Restoration Requirements The bidder shall provide preventive and corrective maintenance services in accordance with the agreed SLA, including: a) 24/7 fault reporting and technical support. b) Timely troubleshooting and fault resolution. c) Immediate deployment of spare cameras where required. d) Restoration of surveillance and recording services within the prescribed SLA timelines. e) Periodic preventive maintenance and health checks. f) Site-wise fault, repair, and replacement reporting. 8.Financial Responsibility under SLA a) All repair, maintenance, replacement, integration, configuration, transportation, Technology refresh, testing, and commissioning activities specified above shall be deemed included in the bidder's quoted SLA/O&M price. b) No additional payment shall be admissible to the bidder for repairing or replacing faulty or		

			damaged existing surveillance equipment and associated infrastructure covered under the SLA. c) Any expansion involving additional cameras, new university sites, or increased surveillance coverage beyond the existing approved deployment shall be treated separately and undertaken only with prior written approval from HEC. 9.Documentation and Deliverables The bidder shall maintain and submit: d) Complete site-wise inventory of more than 7,000 IP cameras. e) NVR and outdoor switch inventory. f) Outdoor fibre and cabinet infrastructure inventory. g) Centralized storage health and utilization reports. h) Minimum 500-camera spare inventory records. i) Fault, repair, replacement, and maintenance history. j) Updated network diagrams and CAD/as-built drawings. k) Periodic surveillance system availability and performance reports		

	A4	Implementation Services	1. The supplier shall provide complete end-to-end implementation services for the Smart University infrastructure, including site survey and assessment of existing infrastructure 2. Detailed implementation and migration plan 3. RF survey and Wi-Fi coverage optimization; 4. Technology refresh and mounting of Wi-Fi APs and allied active equipment 5. Technology refresh and configuration of switches, firewalls, wireless controllers and centralized management/monitoring systems 6. Integration with the existing network, authentication and security infrastructure; configuration of VLANs, IP addressing, routing, QoS, security policies and WLAN profiles 7. Migration from existing to upgraded infrastructure with minimum service disruption; 8. Firmware/software and license activation; testing and commissioning; performance, coverage, connectivity and failover testing;		

			9. Fault rectification and optimization; and final acceptance testing.		
	A5	Technical Support Staff. NOC & Resident Engineers	1. The supplier shall provide dedicated NOC technical resources and qualified Resident/Field Engineers at designated HEIs throughout the seven-year contract period. 2. NOC staff shall centrally monitor and support Wi-Fi services across 50 HEIs and IP surveillance services across 92 HEIs, including APs, controllers, switches, firewalls, NVRs and IP cameras. 3. NOC staff shall perform first-level troubleshooting, incident logging, ticket management, remote support, escalation and SLA monitoring. 4. Resident Engineers shall provide on-site troubleshooting, preventive maintenance, configuration, equipment replacement, testing and restoration of services within the agreed SLA timelines. 5. NOC and Resident Engineers shall coordinate with HEC, OEM/principal technical teams and	7.	8.

				each other for timely resolution of incidents. 6. The supplier shall provide qualified backup resources to ensure continuity of support during leave or absence of deployed staff and shall maintain an appropriate technical escalation matrix.		

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Supply and Installation Cost Table (Lot-1)

As necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed. Costs MUST reflect prices and rates quoted.

Lot-1: Equipment required for New sites/ buildings for expansion

(to be filled by bidder participating in Lot-1)

				Unit Prices / Rates			**Total Prices**		
				Supplied Locally	**Supplied from Abroad**		**Supplied Locally**	**Supplied from Abroad**	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	***[insert: local currency]***	***[insert: local currency]***	***[insert: foreign currency A]***	***[insert: local currency]***	***[insert: local currency]***	***[insert: foreign currency A]***
1	Access Point (Specification as per Tech Refresh)		2500						
2	Outdoor / Industrial Access Point (Specification as per Tech Refresh)		200						
3	8-Port PoE+ Access Switch (Specification as per Tech Refresh)		250						
4	PoE+ Access Switch 24 Port (Specification as per Tech Refresh)		200						

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
5	NGFirewall-High Capacity (Specification as per Tech Refresh)		5						
6	NGF-Medium Capacity (Specification as per Tech Refresh)		10						
7	Wireless Access Controller – High Capacity (Specification as per Tech Refresh)		5						
8	Wireless Access Controller – Standard Capacity (Specification as per Tech Refresh)		10						

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
9	Core Switch-Standard (Specification as per Tech Refresh)		10						
10	Core Switch-High Capacity (Specification as per Tech Refresh)		5						
11	Centralized CNM Platform – Primary and DR (Specification as per Tech Refresh)		1						
12	UPS (Specification as per Tech Refresh)		150						
	Passive For New Deployment/ site								
13	Optical Fiber – 04 Core Single Mode fiber optic cable along		10,000 Mtr						
14	Optical Fiber – 24 Core Single Mode		30,000 Mtr						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
15	UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC		200,000 Mtr						
16	Channel Duct (Local) – PVC Cable Duct		20,000 Mtr						
17	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf		800 Unit						
18	Wall Mount ODF – Wall mount ODF with Single Mode Couplers		100 Unit						
19	Power / electric work with proper ducting(includes cables and duct)		20,000 Mtr						
20	Patch Panel – 19" Rack Mountable 24 Port Patch Panel		20 Unit						
21	Locally Fabricated Pole – Pole for camera 05FT made with 1.0" GI Pipe		200 Unit						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
22	Locally Fabricated Pole – Pole for camera 10FT made with 1.5" GI Pipe		200 Unit						
23	Locally Fabricated Pole – Pole for camera 15FT made with 2.5" GI Pipe		100 Unit						
24	Cable markers (Route Locators metal types)		50						
25	Earthling pit		10						
26	Power Socket (light plug)		20						
27	Electrical DB		5						
28	Circuit Breakers 16/32amp SP		20						
29	Circuit Breakers 32/40amp TP		10						
30	Power Cable 2.5mm		3,000 Mtr						
31	Power Cable 3/c 6mm		2,000 Mtr						
32	Fliexible Pipe/Electri Piping with laying		2,000 Mtr						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
33	Implementation Services (As specified in GTR-Cl-A16 and its sub-clauses)		1						
34	Training (As specified in GTR-Cl-A17 and its sub-clauses		70						
Subtotals (to *[insert: **line item**]* of Supply and Installation Cost Summary Table)									

Note: - - indicates not applicable.

Name of Bidder:	
Authorized Signature of Bidder:	

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Recurrent Cost Sub-Table *[Lot-1]*

The detailed components and quantities in the Sub-Table below for the line item specified above, modifying the sample components and sample table entries as needed. *Repeat the Sub-Table as needed to cover each and every line item in the Recurrent Cost Summary Table that requires elaboration.* Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15.

Lot-1(to be filled by bidder participating in Lot-1)

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A1	Access Point	12500								
A3	Outdoor / Industrial Access Point	800								
A4	8-Port PoE+ Access Switch	2100								
A5	PoE+ Access Switch 24 Port	1200								
A6	NGFirewall-High Capacity	48								
A7	NGF-Medium Capacity	57								
A8	Wireless Access Controller – High Capacity	15								

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
A9	Wireless Access Controller – Standard Capacity	40								
A10	Core Switch-Standard	28								
A11	Core Switch-High Capacity	33								
A12	Centralized CNM Platform – Primary and DR	2								
A13	UPS	1000								
A14 (As specified in GTR-Cl-A14 and its sub-clauses)	Passive Infrastructure (Reuse, Maintenance, Repair and Upgradation of Existing Passive Infrastructure									
A14.1	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable along with already laid duct	Mtr 126,000								
A14.2	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable along with laying in already laid ducts	Mtr 18,000								
A14.3	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable with duct	Mtr 12,000								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

A14.4	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable with duct	Mtr 115,000								

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			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A14.5	UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC	Mtr 65,140								
A14.6	Channel Duct (Local) – PVC Cable Duct	Mtr 1,300,000								
A14.7	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf	Mtr 450,000								
A14.8	Wall Mount ODF – Wall mount ODF with Single Mode Couplers	Each 5,400								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
A14.9	Power / electric work with proper ducting(includes cables and duct)	Each 2,014								
A14.10	Patch Panel – 19" Rack Mountable 24 Port Patch Panel	Mtr 150,000								
A14.11	Bullet Cameras 50mm – Box and bullet Camera Bracket(Outdoor-Pole installation, Load 20kg, with loops)	Each 100								
A14.12	Locally Fabricated Pole – Pole for camera 05FT made with 1.0" GI Pipe	Unit 3,516								
A14.13	Locally Fabricated Pole – Pole for camera 10FT made with 1.5" GI Pipe	Unit 1,676								
A14.14	Locally Fabricated Pole – Pole for camera 15FT made with 2.5" GI Pipe	Unit 578								
A14.15	Cable markers (Route Locators metal types)	Unit 1,118								
A14.16	Earthling pit	Unit 200								
A14.17	Power Socket (light plug)	Unit 10								
A14.18	Electrical DB	Unit 50								
A14.19	Circuit Breakers 16/32amp SP	Unit 100								
A14.20	Circuit Breakers 32/40amp TP	Unit 50								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A14.21	Power Cable 2.5mm	Unit 100								
A14.22	Power Cable 3/c 6mm	Mtr 23,198								
A14.23	Flexible Pipe/Electric Piping with laying	Mtr` 58,646								
A15	IP Surveillance Infrastructure SLA, (Reuse, Maintenance, Repair and Replacement of Existing)									
A15.1	PTZ cameras (IPC6625-Z30-P)	Unit 400								
A15.2	Bullet cameras 50mm (IPC6225-VRZ)	Unit 6,000								
A15.3	Dome cameras (IPC6325-WD-VR)	Unit 2,775								
A15.4	NVR (VCN500) – Small universities	42 Unit								
A15.5	NVR (VCN500) – Medium universities	198 Unit								
A15.6	NVR (VCN500) – Large universities	204 Unit								
A15.7	NVR (VCN3020) – Extra-large universities	35 Unit								
A15.8	RH1288 V3_Eduroam service_Campus	50 Unit								
A15.9	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Islamabad. Installed Capacity is 1.74 PB	2 Units								

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A15.10	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Lahore Installed Capacity is 1.74 PB	2 Units								
A15.11	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Karachi Installed Capacity is 1.74 PB	2 Units								
A15.12	Decoder	324 Units								
	Cumulative Subtotal (to *[insert:* ***currency*** *]* entry for *[insert:* ***line item*** *]* in the Recurrent Cost Summary Table)									

Name of Bidder:	
Authorized Signature of Bidder:	

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Grand Summary Cost Table: - Lot-1

		[insert: ***Local Currency*** *]* Price	*[insert:* ***Foreign Currency*** Price
1. Supply and Installation Costs			
1. Recurrent Costs			
2. Total Without tax			
3. Grand Totals with tax(to Bid Submission Form)			
4. Yearly equal installment (Grand total shall equally divided in 7 years)			

Name of Bidder:	
Authorized Signature of Bidder:	

Supply and Installation Cost Table (Lot-2)

As necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed. Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15.

Lot-2: Equipment required for New sites/ buildings for expansion

(to be filled by bidder participating in Lot-2)

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
1	Access Point- Dual band (Specification as per Tech Refresh)		1500						
2	Outdoor / Industrial Access Point (Specification as per Tech Refresh)		100						
3	8-Port PoE+ Access Switch (Specification as per Tech Refresh)		100						
4	PoE+ Access Switch 24 Port (Specification as per Tech Refresh)		100						

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
5	Wireless Access Controller – High Capacity (Specification as per Tech Refresh)		5						
6	Wireless Access Controller – Standard Capacity (Specification as per Tech Refresh)		5						
7	Core Switch-Standard (Specification as per Tech Refresh)		5						
8	Core Switch-High Capacity (Specification as per Tech Refresh))		5						
9	Centralized CNM Platform – Primary and DR (Specification as per Tech Refresh)		1						

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				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
10	UPS (Specification as per Tech Refresh)		150						
11	Passive For New Deployment/ site								
	Optical Fiber – 04 Core Single Mode fiber optic cable along		1,000 Mtr						
	Optical Fiber – 24 Core Single Mode		5,000 Mtr						
	UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC		50,000 Mtr						
	Channel Duct (Local) – PVC Cable Duct		5,000 Mtr						
	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf		1,00 Unit						
	Wall Mount ODF – Wall mount ODF with Single Mode Couplers		50 Unit						
	Power / electric work with proper ducting(includes cables and duct)		5,000 Mtr						

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				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
	Patch Panel – 19" Rack Mountable 24 Port Patch Panel		10 Unit						
	Cable markers (Route Locators metal types)		10						
	Fliexible Pipe/Electri Piping with laying		2,000 Mtr						
A16	Implementation Services (As specified in GTR-Cl-A16 and its sub-clauses)		10						
A17	Training (As specified in GTR-Cl-A17 and its sub-clauses		70						
Subtotals (to *[insert: **line item**]* of Supply and Installation Cost Summary Table)									

Note: - - indicates not applicable.

Name of Bidder:	
Authorized Signature of Bidder:	

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Recurrent Cost Sub-Table *[Lot-2]*

The detailed components and quantities in the Sub-Table below for the line item specified above, modifying the sample components and sample table entries as needed. *Repeat the Sub-Table as needed to cover each and every line item in the Recurrent Cost Summary Table that requires elaboration.* Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15

Lot-2(to be filled by bidder participating in Lot-2)

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
1	Access Point	9310								
2	Outdoor / Industrial Access Point	250								
3	8-Port PoE+ Access Switch	530								
4	PoE+ Access Switch 24 Port	865								
5	Wireless Access Controller – High Capacity	35								
6	Wireless Access Controller – Standard Capacity	33								
7	Core Switch-Standard	33								
8	Core Switch-High Capacity	35								

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			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
9	Centralized CNM Platform – Primary and DR (Cisco L-ISE-BSE-PLIC, LMS-4.0-WIN-K or equivalent)	3								
10	UPS	1000								
11 (As specified in GTR-Cl and its sub-clauses)	Passive Infrastructure (Reuse, Maintenance, Repair and Upgradation of Existing Passive Infrastructure									
11.1	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable along with already laid duct	8000 mtr								
11.2	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable along with laying in already laid ducts	5000 mtr								
11.3	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable with duct	1000 mtr								
11.4	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable with duct	500 mtr								
11.5	UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC	200 mtr								

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
11.6	Channel Duct (Local) – PVC Cable Duct	200 mtr								
11.7	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf	1000								
11.8	Wall Mount ODF – Wall mount ODF with Single Mode Couplers	500								
11.9	Power / electric work with proper ducting(includes cables and duct)	18000 ft								
11.10	Patch Panel – 19" Rack Mountable 24 Port Patch Panel	350								
	Cumulative Subtotal (to *[insert: **currency**]* entry for *[insert: **line item**]* in the Recurrent Cost Summary Table)									

Name of Bidder:	
Authorized Signature of Bidder:	

Note: The cost for maintenance must be quoted after expiry of the warranty period e.g. if a component is having three year warranty than the price charged for such maintenance shall be applicable after expiry of the warranty period.

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Grand Summary Cost Table: - Lot-2

		[insert: ***Local Currency*** *]* Price	*[insert:* ***Foreign Currency*** Price
1. Supply and Installation Costs			
1. Recurrent Costs			
2. Total Without tax			
3. Grand Totals with tax(to Bid Submission Form)			
4. Yearly equal installment (Grand total shall equally divided in 7 years)			

Name of Bidder:	
Authorized Signature of Bidder:	

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Annexure-1: List of Lot-1 Wi-Fi HEI's

S.No	HEI
1	Institute of Space Technology (IST), Islamabad
2	Islamia College University (ICP), Peshawer
3	National University of Science and Technology (NUST), Islamabad
4	University of Engineering and Technology (UET), Taxila
5	Allama Iqbal Open University (AIOU), Islamabad
6	Shaheed Benazir Bhutto Woman University (SBBWU), Peshawer
7	Pakistan Institute of Engineering & Applied Sciences (PIEAS), Islamabad
8	University of Science & Technology (UST), Bannu
9	Institute of Management Sciences (IMS), Peshawar
10	Mirpur University of Science & Technology (MUST), Mirpur
11	University of Peshawar (UOP), Peshawer
12	HEC Peshawar
13	National Univeristy of Modern Languages (NUML)
14	University of Sawabi Campus 2
15	Fedral Urdu University (FAU), Islamabad
16	National Skills University (NSU), Islamabad
17	Rawalpindi Medical University (RMU), Rawalpindi
18	University of Engineering and Technology (UET), Lahore
19	National Textile University (NTU)
20	The Women University, Mathital Campus, Multan (WUM)
21	Bahauddin Zakariya University (BZU), Multan
22	Virtual Univeristy (VU)
23	Lahore College of Woman University (LCWU), Lahore
24	University of Okara (UoO), Okara
25	Punjab University (PU) Lahore
26	Government College of Women University (GCWU), Faislabad
27	Governomet College Woman University (GCWU), Sialkot
28	Governoment College University (GCU), Faislabad
29	Ghazi University (GU), Dera Ghazai Khan
30	Riphah University Township Campus
31	Riphah University Raiwind Campus
32	University of Enginneering and Technology Kalashahkako (UET KSK)
33	University of Enginneering and Technology Faislabad (UET FSD)
34	Kinnaird College for Woman University (KCWU), Lahore
35	University of Narowal (UON), Narowal
36	National College of Arts (NCA), Lahore
37	Mehran University of Engineering Technology (MUET), Jamshoro

38	DOW Medical College (DOW), Karachi
39	GIMS GAMBAT
40	University of Balochistan (UOB), Quetta
41	National Textile University (NTU), Karachi
42	Peoples University of Medical & Health Sciences for Women (PUMHSW), Nawabshah
43	Mehran University of Engineering Technology (MUET), Khairpur
44	University of Engineering and Technology (UET), Khuzdar
45	Center of Excellence art and Design (CEAD), Jamshoro
46	NED University of Engineering & Technology (NED), Karachi
47	NED LEJ Campus (NED), Karachi
48	NED City Campus
49	Sind Agriculture University (SAU), Tandojam
50	The Shiekh Ayaz University (TSAU), Shikarpur

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Annexure-2: List of Lot-1 (IP Surveillance HEI's)

S.No	Name	Campus City
1	Pakistan Institute of Engineering & Applied Sciences	Islamabad
2	Allama Iqbal Open University	Islamabad
3	Institute of Space and Technology	Islamabad
4	University of Peshawar	Peshawar
5	Institute of Management Sciences	Peshawar
6	Shaheed Benazir Bhutto Women University	Peshawar
7	Islamia College University	Peshawar
8	University of Engineering & Technology	Taxila
9	University of Engineering & Technology	Lahore
10	Government College University	Faisalabad
11	Bahauddin Zakria University	Multan
12	NED University of Engineering & Technology	Karachi
13	Dow University of Health Sciences, Ojha Campus	Karachi
14	Mehran University of Engineering & Technology	Jamshoro
15	Peoples University of Medical and Health Sciences for Women	Nawabshah
16	University of Balochistan	Quetta
17	Mirpur University of Science & Technology	Mirpur
18	University of Science & Technology	Bannu
19	Balochistan University of Engineering & Technology	Khuzdar
20	Govt College Women University	Sialkot
21	Govt College Women University	Faisalabad
22	Centre of Excellence in Art and Desgin	Jamshoro
23	Ghazi University	D.G Khan
24	Riphah International University Riwind Campus Lahore	Lahore
25	Riphah International University QIH Township Campus Lahore	Lahore
26	Virtual University Lahore	Lahore
27	NTU Faisalabad	Faisalabad
28	WUM Matital	Multan
29	National Skill University	Islamabad
30	Rawalpindi Medical College(Tippu Road)	Rawalpindi
31	Federal Urdu University	Islamabad
32	Lahore College of Women University	Lahore
33	NED City Campus	Karachi
34	NED LEJ Campus	Karachi
35	University of Okara	Okara
36	UET Kala Shah Kaku	Lahore
37	UET Faisalabad	Faisalabad

38	Kinnarid College for womwen University	Lahore
39	National University of modern Languages	Islamabad
40	University of Swabi New Campus	Swabi
41	Gambat Medical College	Gambat
42	National College of Arts	Lahore
43	The Shaikh Ayaz University	Shikarpur
44	Higher Education Commission Peshawar	Peshawar
45	National Textile University	Karachi
46	MUET Khairpur	Khairpur
47	University Of Narowal	Narowal
48	National University of Sciences & Technology Islamabad	Islamabad
49	Punjab University	Lahore
50	Sindh Agriculture University	Tandojam
51	Quaid-e-Awam University of Engineering, Science & Technology	Nawabshah
52	Bahria University	Islamabad
53	Comsats Institute of Information Technology	Islamabad
54	Air University	Islamabad
55	Khyber Medical University	Peshawar
56	Kohat University of Science & Technology	Kohat
57	University of Gujrat	Gujrat
58	Institute of Business Administration , Sukkur	Sukkur
59	University of Haripur	Haripur, Hazara
60	Jinnah Sindh Medical University	Karachi
61	The Women University	Multan
62	University of Swabi	Swabi
63	University of Kotli Azad Jammu & Kashmir	Kotli
64	Higher Education Commission Islamabad	Islamabad
65	University of Sargodha Sargodha	Sargodha
66	Hazara University	Mansehra
67	SBBU Lyari	Karachi
68	College of Agriculture Sargodha	Sargodha
69	Bahria University Medical and Dental College Karachi	Karachi
70	University of Poonch	Rawalakot
71	Bacha khan University	Charsadda
72	Gilgit International University	Gilgit
73	Bahria University Karachi	Karachi
74	International Islamic University	Islamabad
75	Khushal Khan Khattak University	Karak
76	University of Education	Lahore
77	COMSATS University	Lahore
78	University of Azad & Jammu Kashmir , City Campus	Muzaffarabad
79	University of Azad & Jammu Kashmir Chahlaa Campus	Muzaffarabad
80	Lasbela University of Water & Marine Sciences	Lasbela

81	University of Engineering and Technology	Peshawar
82	Kohsar University Muree	Murree
83	Air University Multan Campus	Multan
84	Higher Education Commission Lahore	Lahore
85	Higher Education Commission Karachi	Karachi
86	Sardar bahadur Khan University , Quetta	Quetta
87	University of agriculture Faisalabad	Faisalabad
88	Shah Abdul Latif University Khaipur	Khairpur
89	National University of Sciences & Technology Quetta	Quetta
90	National Defence University	Islamabad
91	Qauid-e-Azam University	Islamabad

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Annexure-3: List of Lot-2 Wi-Fi HEI's

S.No	Name
1	Bahria University, (BU) Islamabad
2	HEC Islamabad (HEC)
3	Jinnah Sindh Medical University (JSMU), Karachi
4	HEC Karachi
5	IBA Sukkur (IBA)
6	Khyber Medical University (KMU), Peshawer
7	Woman University (WUM) Multan
8	HEC Lahore
9	Sindh Madarsatul Islam University (SMIU), Karachi
10	Karakoram International University (KIU), Gilgit
11	Univeristy of Haripur (UOH)
12	Islamia University (IUB), Bahawalpur
13	University of Gujrat (UOG)
14	University of Sawabi (UOS)
15	Qaid-e-Awam University of Engineering and Science Technology (QUEST), Nawabshah
16	Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS)
17	Kohat University of Science and Technology (KUST), Kohat
18	Comsats Institute of Information technology (CIIT), Islamabad
19	National Defense University (NDU), Islamabad
20	University of Agriculture (UAF), Fasilabad
21	Sardar Bahadur Khan Women's University (SBKWU), Quetta
22	University of Sarghodha (UOS)
23	University of Kotli (UOK), Azad Jammu and Kashmir
24	University of Azad Jammu and Kashmir (UAJK), City Campus
25	Shah Abdul Latif University (SALU), Khairpur
26	University of Veterinary and Animal Sciences (UVAS), Lahore
27	Air University (AU), Islamabad
28	Bacha Khan Univeristy (BKUC), Charsadda
29	Abdul Wali Khan University (AWKUM), Mardan
30	Hazara University (HU), Mansehra
31	Bahria University of Medical and Dental College (BUMDC), Karachi
32	Benazir Bhutto Shaheed University Liyari (BBSUL), Karachi
33	Bahria University (BUKC), Karachi Campus
34	Comsats University Islamabad (CUI), Lahore

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35	Lasbela University of Agriculture, Water & Marine Sciences (LUAWMS), Lasbela
36	University of Engineering and Technology (UET), Peshawar
37	College of Agriculture, Sargodha
38	University of Poonch, Rawalakot
39	Khushal Khan Khattak University, karak
40	University of Education, Lahore
41	International Islamic University, Islamabad
42	Fatima Jinnah University, Rawalpindi
43	University of Azad Jammu and Kashmir (UAJK), Chahlla Campus
44	Quaid-e-Azam, University
45	Air University, Multan
46	Kohsar University, Murree
47	NUST ,Balochistan

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System Management, Administration, and Security Specifications

1. **General Requirements**

In addition to the management, administration, and security requirements specified for individual hardware and software components, the successful bidder shall ensure centralized and effective management, administration, monitoring, and security of the Information System across the respective HEIs.

The overall system shall support the following management, administration, and security capabilities:

a) Technical Management and Troubleshooting

- Provide centralized monitoring and management of the deployed Wi-Fi infrastructure and associated network components.
- Monitor the operational status, availability, performance, utilization, and health of network devices and connected equipment.
- Provide fault detection, alerts, incident logging, diagnostics, and troubleshooting facilities.
- Maintain records of reported faults, corrective actions, resolution times, and preventive maintenance activities.
- Provide remote technical support and on-site assistance as required under the SLA.
- Ensure timely resolution of technical issues in accordance with the agreed SLA response and restoration timelines.
- Maintain updated network configurations, equipment inventories, topology diagrams, and technical documentation.
- Support integration with the existing HEC/HEI network management and monitoring systems, where applicable.
- For Lot-1, provide monitoring and management of the IP surveillance infrastructure, including IP cameras, NVRs, storage, connectivity, recording, and playback status.

b) User and Usage Administration

- Support centralized user authentication and access management for the Wi-Fi network.
- Support integration with existing institutional identity and authentication systems, including RADIUS, LDAP, Active Directory, or other authentication services, where deployed.
- Support eduroam (Education Roaming) authentication and connectivity, enabling eligible students, faculty, researchers, and staff to securely access Wi-Fi services using their institutional credentials, in accordance with eduroam requirements and the existing HEC/HEI infrastructure.
- Ensure compatibility with the existing eduroam infrastructure and authentication arrangements, without disrupting currently operational services.
- Provide role-based access control (RBAC) for network administrators, system operators, and other authorized users.

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- Support administration of user accounts, roles, permissions, and access privileges.
- Maintain logs of user authentication attempts, access activities, administrative actions, and configuration changes.
- Provide usage and performance reports, including authenticated users, connected clients, access point utilization, network traffic, and other relevant operational statistics.
- Ensure that user accounts and access privileges are created, modified, suspended, or revoked only upon authorization by HEC or the concerned HEI.

c) Security

- Implement appropriate security controls to protect the Information System against unauthorized access, misuse, and cyber threats.
- Ensure secure user authentication and administrative access through appropriate authentication and authorization mechanisms.
- Support secure authentication protocols for Wi-Fi access, including those required for eduroam.
- Apply secure configuration practices and ensure that default passwords and credentials are changed before system commissioning.
- Apply firmware, software, and security updates in accordance with approved maintenance procedures.
- Maintain audit logs of security events, user authentication activities, administrative changes, and unauthorized access attempts.
- Ensure secure communication between system components and management platforms.
- Protect system configurations, operational data, user authentication information, and surveillance recordings against unauthorized access, alteration, or deletion.
- For Lot-1, ensure that IP surveillance cameras, NVRs, video management systems, and centralized storage are protected through appropriate access controls and security measures.
- Immediately report any security incident, suspected compromise, or unauthorized access to HEC and the concerned HEI, and take necessary corrective measures in coordination with HEC.

Note: The successful bidder shall ensure that all management, administration, troubleshooting, user authentication, eduroam integration, and security activities are performed without disrupting the normal operations of the respective HEIs and in accordance with HEC-approved policies and procedures.

Service Specifications: As per General specification requirement (01) and System Management, Administration, and Security Specifications (05) of Technical specification

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Documentation Requirements

i. End user documents: The successful bidder shall provide user manuals and operating guides in English, in editable and PDF formats, covering system operation, Wi-Fi access, user authentication, eduroam connectivity, and basic troubleshooting.
ii. Technical Documents: The successful bidder shall provide technical documentation in English, in editable and PDF formats, including site survey reports, equipment inventory, network diagrams, configurations, Technology refresh and testing reports, warranty details, maintenance records, and as-built documentation. All documents shall be updated following each HEI's upgradation and commissioning and submitted to HEC and the respective HEI.

Consumables and Other Recurrent Cost Items: : As per General specification requirement (01) and System Management, Administration, and Security Specifications (05) of Technical specification

Other Non-IT Goods

A. *Testing and Quality Assurance Requirements*

i. Inspections
ii. Factory Inspections: *N/A*
iii. Inspections following delivery: Upon delivery, Technology refresh, configuration, integration, testing, and commissioning of the Information Technologies and other Goods at each respective HEI, the successful bidder shall arrange a joint inspection and performance verification with the authorized representatives of the concerned HEI and/or HEC.

The inspection shall verify that:

- All supplied equipment and materials are delivered in accordance with the approved Bill of Quantities (BoQ) and Technical Specifications.
- Technology refresh, configuration, integration, and commissioning have been completed satisfactorily.
- The installed system is operational and meets the specified technical and functional requirements.
- All required testing and performance checks have been completed successfully.
- Relevant documentation, including equipment inventory, test reports, and configuration details, has been provided.

Upon satisfactory completion of the inspection and verification, the concerned HEI shall sign the Provisional Acceptance Test (PAT) Certificate for the respective site. Any deficiencies or non-compliances identified during inspection shall be rectified by the successful bidder before the PAT Certificate is signed.

Pre-commissioning Tests

i. In addition to the Supplier's standard check-out and set-up tests, the Supplier (with the assistance of the Procuring Agency) must perform the following tests on the System and its Subsystems before Technology refresh will be deemed to have occurred and the Procuring Agency will issue the Technology refresh Certificate(s) (pursuant to related SCC clauses).

ii. *[Specify: Subsystem 1 (as defined in the Site Table[s] attached to the Implementation Schedule) specify: tests, test conditions, success criteria, etc.]*

iii. *[Specify: Subsystem 2 (as defined in the Site Table{s}) specify: tests, test conditions, success criteria, etc.]*

iv. The Entire System: Pre-commissioning Tests for the entire System are: [specify: tests, test conditions, success criteria, etc.]

Operational Acceptance Tests

i. The Procuring Agency, with the assistance of the successful bidder, shall conduct the following tests after Technology refresh, configuration, integration and commissioning at each respective HEI to verify compliance with the approved Technical Specifications and Contract requirements.

a. Subsystem 1 – Wi-Fi and Passive Network Infrastructure (Lot-1 and Lot-2)
   i. Verify Technology refresh and functionality of access points, controllers, switches and associated network infrastructure.
   ii. Test Wi-Fi coverage, signal strength, throughput, connectivity, roaming and concurrent user access.
   iii. Verify user authentication, RADIUS integration and eduroam connectivity.
   iv. Test fibre-optic and structured cabling connectivity and performance.
   v. Verify centralized monitoring, management and fault reporting.
   vi. Success Criteria: All installed and upgraded components operate as specified, meet the approved technical requirements and provide stable connectivity.

b. Subsystem 2 – IP Surveillance Infrastructure (Lot-1 Only)
   i. Verify functionality and connectivity of IP cameras, NVRs, outdoor switches and associated infrastructure.
   ii. Test live video monitoring, recording, playback and retrieval.
   iii. Verify integration with the existing video management platform and centralized storage.
   iv. Test camera coverage, image quality and recording functionality.
   v. Success Criteria: All supplied, upgraded and integrated surveillance components operate correctly and seamlessly with the existing system.

c. Entire System – Pre-Commissioning and Operational Acceptance Tests
   i. Verify completion of Technology refresh, configuration, integration and commissioning at each HEI.
   ii. Conduct end-to-end functionality, connectivity and performance tests.
   iii. Verify compliance with the approved site survey report, BoQ and Technical Specifications.
   iv. Confirm submission of equipment inventory, test reports, configuration details and as-built documentation.

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v. Conduct an operational stability test under normal operating conditions for an agreed period.
vi. Rectify all deficiencies identified during testing before acceptance.

Acceptance: Upon successful completion of the tests and satisfactory verification by HEC and/or its authorized representatives, the concerned HEI shall sign the Provisional Acceptance Test (PAT) Certificate. For Lot-2, IP surveillance testing shall not apply

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SERVICE LEVEL AGREEMENT (SLA)
SMART UNIVERSITY ICT INFRASTRUCTURE

Applicable to Lot-1 and Lot-2

1. Scope and Applicability:

This SLA shall apply to the services, equipment, software, materials and deliverables included in the respective Lot awarded under this RFP. Lot-1 comprises Wi-Fi infrastructure upgradation and associated support, maintenance, repair and replacement of passive network infrastructure and IP surveillance infrastructure. Lot-2 comprises Wi-Fi infrastructure upgradation and associated support, maintenance, repair and replacement of passive network infrastructure. IP surveillance-specific obligations in this SLA shall apply to Lot-1 only.
The successful bidder shall be responsible for the complete operational performance of the systems and infrastructure within its awarded scope, including existing assets retained for reuse, upgraded assets, supplied/replacement equipment, integration, configuration, testing, commissioning, preventive maintenance, corrective maintenance and technical support.t

2. Upgradation, Transition and Commencement of SLA

1. Immediately following contract signing, the successful bidder shall commence site surveys and condition assessments at the respective HEIs in accordance with the approved Project Implementation Plan (PIP).
2. The successful bidder shall submit a detailed site-wise survey report, including existing inventory, condition of assets, coverage/performance gaps, reuse recommendations, proposed upgrades, implementation methodology, dependencies and site-wise schedule.
3. Upgradation and deployment at an HEI shall commence only after HEC has reviewed and accepted the relevant survey report and issued written Go-Ahead for that HEI or approved batch of HEIs.
4. The successful bidder shall complete Technology refresh, configuration, integration, testing and commissioning at each HEI and arrange joint inspection and performance verification. The concerned HEI shall sign the Provisional Acceptance Test (PAT) Certificate after satisfactory completion and rectification of identified deficiencies.
5. Operational SLA measurement for the upgraded scope at each HEI shall commence from the date of PAT for that HEI. Until PAT, the successful bidder remains responsible for safe implementation, protection of existing assets and continuity of services affected by its activities.

6. During transition and phased implementation, the successful bidder shall coordinate with HEC and the concerned HEI to avoid unnecessary interruption of existing services. Any planned outage shall require prior approval and notification.
7. Preventive and corrective maintenance obligations shall continue throughout the contract period for the assets and services included in the awarded Lot. The successful bidder shall not treat PAT of a newly upgraded component as excluding other existing in-scope infrastructure from maintenance.

3. General Service Requirements

1. All new equipment, components, accessories and software supplied under the Contract shall be genuine, new, unused, non-refurbished and free from defects. At the time of supply, products shall not be end-of-life or end-of-support; the successful bidder shall provide OEM lifecycle evidence demonstrating a minimum of seven (7) years of remaining product support, where available and applicable to the product category.
2. The successful bidder shall provide a 24x7 service desk/online support channel for logging and tracking incidents. Critical and service-affecting incidents shall be attended on a 24x7 basis.
3. The successful bidder shall nominate a project/SLA manager and suitably qualified technical resources, and shall maintain adequate regional field-support arrangements to serve all participating HEIs.
4. The successful bidder shall provide remote support and on-site assistance where required. Remote resolution shall not be used to delay dispatch of field resources where physical intervention is necessary.
5. The successful bidder shall maintain an up-to-date asset register, site-wise configuration records, network diagrams, IP/addressing information, warranty details and maintenance history for all in-scope assets.
6. The successful bidder shall conduct preventive maintenance at intervals proposed in its technical offer and approved by HEC, at a minimum quarterly for critical network and surveillance infrastructure, unless a more frequent interval is specified by the OEM or HEC.
7. The SLA shall be reviewed jointly by HEC and the successful bidder at least once every six (6) months, and after any major incident or material change. Review shall not reduce the successful bidder's contractual obligations unless formally amended by HEC.

4. Lot-Specific Service Obligations

a. Lot-1: Wi-Fi, Passive Network and IP Surveillance

I. Wi-Fi: maintain and support the upgraded and retained Wi-Fi infrastructure, including access points, controllers, management platforms, licenses and associated components; monitor availability, client connectivity, authentication, roaming, capacity and performance.

II. Passive network: maintain fibre-optic cabling, structured copper cabling, ducts, poles, cabinets, racks, patch panels, connectors, power cabling and associated accessories within the approved scope. Repair or replace defective or degraded components where required to restore specified performance.

III. IP surveillance: maintain and support IP cameras, NVRs, outdoor switches, fibre links, outdoor cabinets, video management platform, recording, playback and centralized storage components included in the approved scope.

IV. Ensure that replacement or additional IP cameras, NVRs, storage and related equipment integrate seamlessly with the existing surveillance platform and installed environment. Include all required licenses, interfaces, configuration, integration, testing and commissioning in the Contract price where required for the supplied item to function as specified.

V. Maintain compatibility with existing surveillance equipment and preserve existing recording, monitoring, playback, retention and retrieval functionality. Any incompatibility attributable to equipment supplied by the successful bidder shall be resolved at no additional cost to HEC.

b. Lot-2: Wi-Fi and Passive Network

I. Wi-Fi: maintain and support the upgraded and retained Wi-Fi infrastructure, including access points, controllers, management platforms, licenses and associated components; monitor availability, client connectivity, authentication, roaming, capacity and performance.

II. Passive network: maintain fibre-optic cabling, structured copper cabling, ducts, poles, cabinets, racks, patch panels, connectors, power cabling and associated accessories within the approved scope. Repair or replace defective or degraded components where required to restore specified performance.

III. IP surveillance services and equipment are not included in Lot-2 and shall not be deemed part of the successful bidder's obligations under this Lot.

5. Wi-Fi Authentication and eduroam

1. The successful bidder shall maintain compatibility and integration of the Wi-Fi infrastructure with the existing institutional authentication arrangements, including RADIUS, LDAP, Active Directory or other identity systems deployed by the HEI.
2. The Wi-Fi solution shall support eduroam authentication and roaming in accordance with applicable eduroam technical requirements and the existing HEC/HEI eduroam architecture. The successful bidder shall configure, test and validate the required integration in coordination with HEC and the concerned HEI.
3. The successful bidder shall not change institutional authentication policies, credentials, identity stores or eduroam federation settings without prior written authorization from the concerned HEI/HEC.
4. Authentication failures, RADIUS connectivity issues and eduroam-related faults attributable to the supplied or maintained infrastructure shall be logged, investigated and resolved under the applicable incident priority.

6. Spares, Backup Equipment and Replacement

1. The successful bidder shall maintain a minimum spare-parts pool equivalent to three percent (3%) of the installed quantity of each applicable equipment category, or such higher quantity as is necessary to meet the response and restoration targets. The spare pool shall include compatible items for Wi-Fi and passive network infrastructure under both Lots and IP surveillance equipment under Lot-1.
2. Spare equipment shall be genuine, compatible with the installed environment, fully functional and maintained in ready-to-deploy condition. The successful bidder shall provide HEC with a site/region-wise spare inventory and update it whenever spares are deployed or replenished.
3. Where a component cannot be repaired within the applicable target, the successful bidder shall provide a temporary functional replacement/backup of equivalent or better specification within the backup time specified in the Incident Priority Matrix. Permanent repair or replacement shall follow without undue delay.
4. Any spare deployed to restore service shall be replenished by the successful bidder at its own cost. The successful bidder shall not remove an installed component for repair unless an operational replacement has first been provided, except where HEC approves otherwise.
5. Replacement of defective or failed in-scope items, including parts, labour, transportation, Technology refresh, configuration, integration and testing, shall be at the successful bidder's cost where the failure is covered by the SLA, warranty or the successful bidder's scope of responsibility.

7. Incident Management, Priorities and Service Targets

All incidents shall be logged through the HEC-designated complaint/CRM system or another system approved by HEC. The incident clock shall start when the incident is reported or detected by monitoring, whichever occurs first. Response time means acknowledgement and commencement of diagnosis; restoration time means restoration of the affected service, including through a temporary workaround or backup; permanent resolution means completion of repair/replacement.

Priority	Classification and examples	Acknowledgement / response	Temporary restoration / backup
P1 – Critical	Complete outage of a site or critical network/surveillance service; failure materially affecting a large user population or essential campus operations. Applies to Wi-Fi/passive network in both Lots and surveillance in Lot-1.	60 minutes, 24x7	Within 8 hours; provide interim workaround/backup within 24 Hours (Plus travel time)
P2 – High	Major degradation or failure of a core/distribution component, major fibre link, controller, NVR or storage component, while some services remain operational.	60 minutes, 24x7	Within 12 hours; backup for critical core/regional component within 36 hours (Plus Travel Time).
P3 – Moderate	Failure affecting a single access point, switch, passive link, camera or other individual endpoint, with limited user/site impact.	Within 4 hours during applicable support coverage; 24x7 for safety/security-critical surveillance and campus-critical locations.	Group 1: 24 hours; Group 2: 36 hours; Groups 3 and 4: 48 hours (Plus Travel Time).
P4 – Low	Non-service-affecting fault, intermittent issue, minor defect, non-critical alarm, routine maintenance deficiency or	Within 1 business day	Within 72 hours or agreed corrective action plan, without allowing the defect to remain

	reporting/documentation omission.		unresolved indefinitely.

The geographical support groups and corresponding cities/locations shall be as listed below. These groupings are reproduced from the existing SLA schedule and shall be checked against the final participating HEI/site list before publication.\

Group	Cities / Locations
Group 1	Islamabad, Karachi, Lahore
Group 2	Faisalabad, Peshawar, Rawalpindi, Taxila, Multan, Hyderabad/Jamshoro
Group 3	Bahawalpur, D.I. Khan, Gujrat, Haripur, Larkana, Mansehra, Mirpur, Nawabshah, Sargodha, Sukkur, Dera Ghazi Khan, Kohat, Tandojam, Quetta
Group 4	Bagh, Bannu, Charsadda, Gilgit, Karak, Khuzdar, Lasbela, Malakand, Mardan, Muzaffarabad, Rawalakot, Sheringal–Dir, Swabi, Swat, Turbat, Khairpur, Kotli

8. Availability and Performance Monitoring

1. The successful bidder shall monitor the health, availability and performance of all in-scope components using the existing or proposed management tools approved by HEC.
2. Monthly availability shall be calculated for each service/site as: (Total scheduled service minutes minus attributable unplanned downtime) divided by total scheduled service minutes, multiplied by 100. Planned maintenance approved in advance by HEC and downtime caused solely by documented exclusions shall be excluded.
3. Proposed minimum availability targets shall be stated in the Technical Specifications/SLA schedule for Wi-Fi services, network connectivity and, for Lot-1, IP surveillance recording and monitoring. Bidders shall price and commit against the same targets.
4. Monitoring shall include, as applicable, access point/controller status, client connectivity, authentication/eduroam, link status, interface errors, bandwidth utilization, camera availability, recording status, NVR/storage health and capacity.
5. Performance reports shall identify outages, degradation, recurring faults, capacity constraints, trends and recommended corrective/preventive actions.

9. Preventive Maintenance and Reporting

1. The successful bidder shall submit a preventive maintenance plan for HEC approval and perform scheduled maintenance without avoidable disruption to HEI operations.
2. After each P1 or P2 incident, the successful bidder shall submit an incident report describing the fault, affected services/assets, root cause (where established), actions taken, restoration time, permanent corrective action and preventive recommendations.
3. For P3 and P4 incidents, incident details shall be recorded in the service management system and included in the monthly report. HEC may require a separate report for any incident.
4. The successful bidder shall submit a monthly SLA report for each Lot and each HEI, covering incident volumes and priorities, response/restoration performance, availability, preventive maintenance, spare inventory, replacements, recurring faults, security incidents and outstanding actions.
5. Reports shall be generated from the HEC-designated CRM/service management system or an HEC-approved online tool. The successful bidder shall provide HEC and authorized HEI representatives with appropriate access to ticket status and service history.

10. Security, Access and Change Management

1. The successful bidder shall use named, authorized accounts and role-based access for management platforms and equipment. Default credentials shall be changed before commissioning and privileged access shall be restricted.
2. User authentication, RADIUS/eduroam integration, administrative access and audit logging shall be maintained securely. Credentials and authentication information shall not be disclosed or used for purposes outside the Contract.
3. Configuration changes, firmware/software upgrades and planned maintenance shall be performed under an approved change process, with prior notification and rollback arrangements where appropriate.
4. For Lot-1, access to live video, recordings, NVRs, VMS and centralized storage shall be restricted to authorized personnel of the HEI/HEC. The successful bidder shall not view, copy, disclose or export surveillance footage except as authorized for support or by the competent authority.
5. Any suspected cyber incident, unauthorized access, loss of recordings or compromise of credentials shall be reported to HEC and the concerned HEI immediately.

11. SLA Breach, Service Credits and Penalties

1. Each failure to meet an applicable response, restoration, replacement, preventive maintenance or reporting obligation shall constitute an SLA breach. A continuing breach shall be measured in accordance with the contractually defined interval; repeated hourly penalties shall apply only where expressly stated in the Contract and shall not result in duplicate penalties for the same failure and same period.

Priority	Proposed service credit / penalty basis
P1 – Critical	1% of the monthly service fee attributable to the affected component of HEI/site or affected service for each substantiated breach.
P2 – High	0.5% of the monthly service fee attributable to the affected component of HEI/site or affected service for each substantiated breach.
P3 – Moderate	0.25% of the monthly service fee attributable to the affected component of HEI/site or affected service for each substantiated breach.
P4 – Low	0.15% of the monthly service fee attributable to the affected component of HEI/site or affected service for each substantiated breach.

2. Penalties shall be calculated against the monthly service fee for the affected Lot/site/service, not an unrelated regional or total contract invoice. The detailed calculation method, monthly cap, aggregate cap, exclusions, notice and cure process, dispute mechanism and right to deduct penalties from invoices shall be expressly stated in the Contract. HEC shall determine breaches on the basis of CRM tickets, monitoring records, site reports, PAT/inspection records and other verifiable evidence, after giving the successful bidder an opportunity to respond.

12. Exclusions and Responsibility Boundaries

1. The successful bidder shall not be liable for delay or service interruption to the extent directly caused by an event outside its reasonable control, provided it promptly notifies HEC, supplies supporting evidence, takes reasonable mitigation measures and complies with the Contract. Any exclusions for force majeure, theft, vandalism, third-party damage, utility/power failure or HEI-side dependencies shall be expressly defined in the Contract. An exclusion shall not apply where the loss or damage is caused or contributed to by the successful bidder's negligence, failure to secure equipment, improper Technology refresh, deficient maintenance or failure to follow approved procedures.

13. **Contract Period and Warranty**

1. All SLA obligations shall remain in force for the Contract period. Warranty for supplied/upgraded equipment shall be as specified in the Technical Specifications and Contract. The successful bidder shall coordinate OEM warranty claims and shall remain the single point of responsibility to HEC for repair, replacement, integration and restoration of the supplied solution. OEM warranty limitations shall not relieve the successful bidder of its contractual obligations.

14. Lot-wise Applicability Summary

SLA component	Lot-1	Lot-2
Wi-Fi upgradation, integration, PAT and ongoing SLA	Applicable	Applicable
Passive network maintenance, repair/replacement	Applicable	Applicable
IP camera, NVR, VMS, storage and surveillance network SLA	Applicable	Not applicable
Spare parts and backup equipment	Wi-Fi/passive/surveillance categories	Wi-Fi/passive categories
eduroam and institutional user authentication support	Applicable	Applicable
Monthly SLA reporting and incident management	Applicable	Applicable

A. *Implementation Schedule*

Implementation Schedule Table

System, Subsystem, or lot number: *[if a multi-lot procurement, insert:* ***lot number,*** *otherwise state* ***"entire System procurement"****]*

[Specify ***desired installation and acceptance dates for all items in Schedule below, modifying the sample line items and sample table entries as needed.****]*

Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
0	Project Plan						Yes/no
1	Headquarters Subsystem						
1.1	Hardware, LAN & General-Purpose Software						
1.2	Database system						
1.3	Training						

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Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
2.0	Region 1 Branch Offices Subsystem(s)						
2.1	Hardware, LAN & General-Purpose Software						
2.2	Training						
	etc.						
j	Region J Branch Offices Subsystems						

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Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
j.1	Hardware, LAN & General-Purpose Software						
j.2	Training						
j.3	etc.						
:							
k	WAN and integrated database access Subsystems						
k.1	WAN						
k.2	Database access software						
k.3	Training						
k.4	etc.						
l	etc.						

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Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
m	Data conversion service						
:	etc.						
x	Operational Acceptance of the System as an integrated whole						
z	Recurrent Cost Items						
z.1	Headquarters Recurrent Cost Items						
x.2	Region 1 Recurrent Cost Items						
x.3	etc.						

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Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
x.j+1	Region J Recurrent Cost Items						
	etc.						

Note: This Schedule of Requirements shall be finalized and updated following confirmation of requirements by the respective HEIs after signing of the Contract

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System Inventory Table (Recurrent Cost Items) [*insert: **identifying number**]*

System, Subsystem, or lot number: *[if a multi-lot procurement, insert: **lot number,** otherwise state **"entire System procurement"**]*
Line item number: *[specify: **relevant line item number from the Implementation Schedule (e.g., z.1)**]*
*[As necessary for the supply and installation of the System, specify**: the detailed components and quantities in the System Inventory Table below for the line item specified above, modifying the sample components and sample table entries as needed.** Repeat the System Inventory Table as needed to cover each and every line item in the Implementation Schedule that requires elaboration.]*

Component No.	Component	Relevant Technical Specifications No.	Y1	Y2	Y3	Y4	…	Yn
1.	Hardware Maintenance		*Incl. in Warranty*	*Incl. in Warranty*	*Incl. in Warranty*	*all items, all sites*	…	*main server & WAN*
	…							
2.	Software Licenses and Updates:							
2.1	System and General-Purpose Software		*Incl. in Warranty*	*all items, all sites*	*all items, all sites*	*all items, all sites*	*none*	*none*
2.2	Application, Standard, and Custom Software		*Incl. in Warranty*					
	…							

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Component No.	Component	Relevant Technical Specifications No.	Y1	Y2	Y3	Y4	…	Yn
3.	Technical Services							
3.1	Sr. Systems Analyst		*e.g.,80 days*	*e.g.,40 days*	*e.g.,20 days*	*e.g.,10 days*	*0*	*0*
3.2	Sr. Programmer						*0*	*0*
3.3	Sr. Network Specialist, …. etc.		- -	--	--	--	*0*	*0*
	…							
4.	Telecommunications Services		…	…	…	...	…	…
5.	[Other recurrent services, if any]		…	…	…	…	…	…

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Schedule of Requirements:

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery

All the upgraded equipment or the equipment of new site(s)/ location(s) shall be delivered, installed, configured, tested, commissioned, and accepted at the designated Higher Education Institutions (HEIs). The bidder shall remain responsible for transportation, insurance, handling, and all associated risks until successful Technology refresh, commissioning, and formal acceptance by HEC

Schedule for Lot-1*

Number	Description	Quantity	Delivery schedule (shipment) in weeks / months
1	Site survey (Including CAD, RF Planning) and submission of signed survey reports	All designated HEIs	Immediately after contract signing
2	Wi-Fi infrastructure Tech Refresh	5–7 HEIs per quarter	Within Q1–Q8 (24 months), commencing after HEC's approval of the detailed survey report and written Go-Ahead for deployment
3	IP surveillance infrastructure integration	5–7 HEIs per quarter	Q1–Q8 (24 months), commencing after HEC's approval of the detailed survey report and written Go-Ahead for deployment
4	Passive infrastructure SLA, repair, replacement and maintenance	All designated HEIs	Throughout the contract period
5	IP surveillance SLA, repair, replacement and maintenance	All designated HEIs	Throughout the contract period
6	Wi-Fi infrastructure repair, replacement and maintenance	All designated HEIs	Throughout the contract period

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7	Testing, commissioning and acceptance	Each HEI	Along with implementation at each HEI
8	Updated asset inventory, CAD drawings and as-built documentation	All designated HEIs	Upon completion of implementation

Schedule for Lot-2*

Number	Description	Quantity	Delivery schedule (shipment) in weeks / months
1	Site survey (Including CAD, RF Planning) and submission of signed survey reports	All designated HEIs	Immediately after contract signing
2	Wi-Fi infrastructure Tech Refresh	5–7 HEIs per quarter	Q1–Q8 (24 months), commencing after HEC's approval of the detailed survey report and written Go-Ahead for deployment
3	Passive infrastructure SLA, repair, replacement and maintenance	All designated HEIs	Throughout the contract period
4	Wi-Fi infrastructure repair, replacement and maintenance	All designated HEIs	Throughout the contract period
5	Testing, commissioning and acceptance	Each HEI	Along with implementation at each HEI
6	Updated asset inventory, CAD drawings and as-built documentation	All designated HEIs	Upon completion of implementation

* This Schedule of Requirements shall be finalized and updated following confirmation of requirements by the respective HEIs after signing of the Contract.

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Supply and Installation Cost Table (Lot-1)

As necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed. Costs MUST reflect prices and rates quoted.

Lot-1: Equipment required for New sites/ buildings for expansion

(to be filled by bidder participating in Lot-1)

				Unit Prices / Rates			**Total Prices**		
				Supplied Locally	**Supplied from Abroad**		**Supplied Locally**	**Supplied from Abroad**	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	***[insert: local currency]***	***[insert: local currency]***	***[insert: foreign currency A]***	***[insert: local currency]***	***[insert: local currency]***	***[insert: foreign currency A]***
1	Access Point (Specification as per Tech Refresh)		2500						
2	Outdoor / Industrial Access Point (Specification as per Tech Refresh)		200						
3	8-Port PoE+ Access Switch (Specification as per Tech Refresh)		250						
4	PoE+ Access Switch 24 Port (Specification as per Tech Refresh)		200						

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
5	NGFirewall-High Capacity (Specification as per Tech Refresh)		5						
6	NGF-Medium Capacity (Specification as per Tech Refresh)		10						
7	Wireless Access Controller – High Capacity (Specification as per Tech Refresh)		5						
8	Wireless Access Controller – Standard Capacity (Specification as per Tech Refresh)		10						

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				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
9	Core Switch-Standard (Specification as per Tech Refresh)		10						
10	Core Switch-High Capacity (Specification as per Tech Refresh)		5						
11	Centralized CNM Platform – Primary and DR (Specification as per Tech Refresh)		1						
12	UPS (Specification as per Tech Refresh)		150						
	Passive For New Deployment/ site								
13	Optical Fiber – 04 Core Single Mode fiber optic cable along		10,000 Mtr						
14	Optical Fiber – 24 Core Single Mode		30,000 Mtr						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
15	UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC		200,000 Mtr						
16	Channel Duct (Local) – PVC Cable Duct		20,000 Mtr						
17	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf		800 Unit						
18	Wall Mount ODF – Wall mount ODF with Single Mode Couplers		100 Unit						
19	Power / electric work with proper ducting(includes cables and duct)		20,000 Mtr						
20	Patch Panel – 19" Rack Mountable 24 Port Patch Panel		20 Unit						
21	Locally Fabricated Pole – Pole for camera 05FT made with 1.0" GI Pipe		200 Unit						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
22	Locally Fabricated Pole – Pole for camera 10FT made with 1.5" GI Pipe		200 Unit						
23	Locally Fabricated Pole – Pole for camera 15FT made with 2.5" GI Pipe		100 Unit						
24	Cable markers (Route Locators metal types)		50						
25	Earthling pit		10						
26	Power Socket (light plug)		20						
27	Electrical DB		5						
28	Circuit Breakers 16/32amp SP		20						
29	Circuit Breakers 32/40amp TP		10						
30	Power Cable 2.5mm		3,000 Mtr						
31	Power Cable 3/c 6mm		2,000 Mtr						
32	Fliexible Pipe/Electri Piping with laying		2,000 Mtr						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
33	Implementation Services (As specified in GTR-Cl-A16 and its sub-clauses)		1						
34	Training (As specified in GTR-Cl-A17 and its sub-clauses		70						
Subtotals (to *[insert: **line item**]* of Supply and Installation Cost Summary Table)									

Note: - - indicates not applicable.

Name of Bidder:	
Authorized Signature of Bidder:	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Recurrent Cost Sub-Table *[Lot-1]*

The detailed components and quantities in the Sub-Table below for the line item specified above, modifying the sample components and sample table entries as needed. *Repeat the Sub-Table as needed to cover each and every line item in the Recurrent Cost Summary Table that requires elaboration.* Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15.

Lot-1(to be filled by bidder participating in Lot-1)

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A1	Access Point	12500								
A3	Outdoor / Industrial Access Point	800								
A4	8-Port PoE+ Access Switch	2100								
A5	PoE+ Access Switch 24 Port	1200								
A6	NGFirewall-High Capacity	48								
A7	NGF-Medium Capacity	57								
A8	Wireless Access Controller – High Capacity	15								

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
A9	Wireless Access Controller – Standard Capacity	40								
A10	Core Switch-Standard	28								
A11	Core Switch-High Capacity	33								
A12	Centralized CNM Platform – Primary and DR	2								
A13	UPS	1000								
A14 (As specified in GTR-Cl-A14 and its sub-clauses)	Passive Infrastructure (Reuse, Maintenance, Repair and Upgradation of Existing Passive Infrastructure									
A14.1	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable along with already laid duct	Mtr 126,000								
A14.2	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable along with laying in already laid ducts	Mtr 18,000								
A14.3	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable with duct	Mtr 12,000								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

A14.4	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable with duct	Mtr 115,000								

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			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A14.5	UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC	Mtr 65,140								
A14.6	Channel Duct (Local) – PVC Cable Duct	Mtr 1,300,000								
A14.7	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf	Mtr 450,000								
A14.8	Wall Mount ODF – Wall mount ODF with Single Mode Couplers	Each 5,400								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
A14.9	Power / electric work with proper ducting(includes cables and duct)	Each 2,014								
A14.10	Patch Panel – 19" Rack Mountable 24 Port Patch Panel	Mtr 150,000								
A14.11	Bullet Cameras 50mm – Box and bullet Camera Bracket(Outdoor-Pole installation, Load 20kg, with loops)	Each 100								
A14.12	Locally Fabricated Pole – Pole for camera 05FT made with 1.0" GI Pipe	Unit 3,516								
A14.13	Locally Fabricated Pole – Pole for camera 10FT made with 1.5" GI Pipe	Unit 1,676								
A14.14	Locally Fabricated Pole – Pole for camera 15FT made with 2.5" GI Pipe	Unit 578								
A14.15	Cable markers (Route Locators metal types)	Unit 1,118								
A14.16	Earthling pit	Unit 200								
A14.17	Power Socket (light plug)	Unit 10								
A14.18	Electrical DB	Unit 50								
A14.19	Circuit Breakers 16/32amp SP	Unit 100								
A14.20	Circuit Breakers 32/40amp TP	Unit 50								

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A14.21	Power Cable 2.5mm	Unit 100								
A14.22	Power Cable 3/c 6mm	Mtr 23,198								
A14.23	Flexible Pipe/Electric Piping with laying	Mtr` 58,646								
A15	IP Surveillance Infrastructure SLA, (Reuse, Maintenance, Repair and Replacement of Existing)									
A15.1	PTZ cameras (IPC6625-Z30-P)	Unit 400								
A15.2	Bullet cameras 50mm (IPC6225-VRZ)	Unit 6,000								
A15.3	Dome cameras (IPC6325-WD-VR)	Unit 2,775								
A15.4	NVR (VCN500) – Small universities	42 Unit								
A15.5	NVR (VCN500) – Medium universities	198 Unit								
A15.6	NVR (VCN500) – Large universities	204 Unit								
A15.7	NVR (VCN3020) – Extra-large universities	35 Unit								
A15.8	RH1288 V3_Eduroam service_Campus	50 Unit								
A15.9	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Islamabad. Installed Capacity is 1.74 PB	2 Units								

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
A15.10	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Lahore Installed Capacity is 1.74 PB	2 Units								
A15.11	Regional storage (OceanStor 2800 V3 Central Region Backup Storage) Karachi Installed Capacity is 1.74 PB	2 Units								
A15.12	Decoder	324 Units								
	Cumulative Subtotal (to *[insert:* ***currency*** *]* entry for *[insert:* ***line item*** *]* in the Recurrent Cost Summary Table)									

Name of Bidder:	
Authorized Signature of Bidder:	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Grand Summary Cost Table: - Lot-1

		[insert: ***Local Currency*** *]* Price	*[insert:* ***Foreign Currency*** Price
1. Supply and Installation Costs			
1. Recurrent Costs			
2. Total Without tax			
3. Grand Totals with tax(to Bid Submission Form)			
4. Yearly equal installment (Grand total shall equally divided in 7 years)			

Name of Bidder:	
Authorized Signature of Bidder:	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Supply and Installation Cost Table (Lot-2)

As necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed. Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15.

Lot-2: Equipment required for New sites/ buildings for expansion

(to be filled by bidder participating in Lot-2)

				Unit Prices / Rates			**Total Prices**		
				Supplied Locally	**Supplied from Abroad**		**Supplied Locally**	**Supplied from Abroad**	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
1	Access Point- Dual band (Specification as per Tech Refresh)		1500						
2	Outdoor / Industrial Access Point (Specification as per Tech Refresh)		100						
3	8-Port PoE+ Access Switch (Specification as per Tech Refresh)		100						
4	PoE+ Access Switch 24 Port (Specification as per Tech Refresh)		100						

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
5	Wireless Access Controller – High Capacity (Specification as per Tech Refresh)		5						
6	Wireless Access Controller – Standard Capacity (Specification as per Tech Refresh)		5						
7	Core Switch-Standard (Specification as per Tech Refresh)		5						
8	Core Switch-High Capacity (Specification as per Tech Refresh))		5						
9	Centralized CNM Platform – Primary and DR (Specification as per Tech Refresh)		1						

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
10	UPS (Specification as per Tech Refresh)		150						
11	Passive For New Deployment/ site								
	Optical Fiber – 04 Core Single Mode fiber optic cable along		1,000 Mtr						
	Optical Fiber – 24 Core Single Mode		5,000 Mtr						
	UTP Data Cable – CAT-6/A UTP 4 Pair Cable, PVC		50,000 Mtr						
	Channel Duct (Local) – PVC Cable Duct		5,000 Mtr						
	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf		1,00 Unit						
	Wall Mount ODF – Wall mount ODF with Single Mode Couplers		50 Unit						
	Power / electric work with proper ducting(includes cables and duct)		5,000 Mtr						

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

				Unit Prices / Rates			Total Prices		
				Supplied Locally	Supplied from Abroad		Supplied Locally	Supplied from Abroad	
Compo-nent No.	**Component Description**	**Country of Origin Code**	**Quantity**	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***	*[insert: **local currency]***	*[insert: **local currency]***	*[insert: **foreign currency A]***
	Patch Panel – 19" Rack Mountable 24 Port Patch Panel		10 Unit						
	Cable markers (Route Locators metal types)		10						
	Fliexible Pipe/Electri Piping with laying		2,000 Mtr						
A16	Implementation Services (As specified in GTR-Cl-A16 and its sub-clauses)		10						
A17	Training (As specified in GTR-Cl-A17 and its sub-clauses		70						
Subtotals (to *[insert: **line item**]* of Supply and Installation Cost Summary Table)									

Note: - - indicates not applicable.

Name of Bidder:	
Authorized Signature of Bidder:	

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Recurrent Cost Sub-Table *[Lot-2]*

The detailed components and quantities in the Sub-Table below for the line item specified above, modifying the sample components and sample table entries as needed. *Repeat the Sub-Table as needed to cover each and every line item in the Recurrent Cost Summary Table that requires elaboration.* Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15

Lot-2(to be filled by bidder participating in Lot-2)

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
1	Access Point	9310								
2	Outdoor / Industrial Access Point	250								
3	8-Port PoE+ Access Switch	530								
4	PoE+ Access Switch 24 Port	865								
5	Wireless Access Controller – High Capacity	35								
6	Wireless Access Controller – Standard Capacity	33								
7	Core Switch-Standard	33								
8	Core Switch-High Capacity	35								

			Maximum all-inclusive costs (for costs in *[insert:* ***currency*** *]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert:* ***currency*** *]*
9	Centralized CNM Platform – Primary and DR (Cisco L-ISE-BSE-PLIC, LMS-4.0-WIN-K or equivalent)	3								
10	UPS	1000								
11 (As specified in GTR-Cl and its sub-clauses)	Passive Infrastructure (Reuse, Maintenance, Repair and Upgradation of Existing Passive Infrastructure									
11.1	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable along with already laid duct	8000 mtr								
11.2	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable along with laying in already laid ducts	5000 mtr								
11.3	Optical Fiber – 04 Core Single Mode 9/125 fiber optic cable with duct	1000 mtr								
11.4	Optical Fiber – 24 Core Single Mode 9/125 fiber optic cable with duct	500 mtr								
11.5	UTP Data Cable – CAT-6 UTP 4 Pair Cable, PVC	200 mtr								

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

			Maximum all-inclusive costs (for costs in *[insert: **currency**]*)							
Component No.	Component	QTY	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Sub-total for *[insert: **currency**]*
11.6	Channel Duct (Local) – PVC Cable Duct	200 mtr								
11.7	Wall Mount Cabinet – 19" Wall mount Single Section Cabinet15U for indoor use with 2 Fans & One Shelf	1000								
11.8	Wall Mount ODF – Wall mount ODF with Single Mode Couplers	500								
11.9	Power / electric work with proper ducting(includes cables and duct)	18000 ft								
11.10	Patch Panel – 19" Rack Mountable 24 Port Patch Panel	350								
	Cumulative Subtotal (to *[insert: **currency**]* entry for *[insert: **line item**]* in the Recurrent Cost Summary Table)									

Name of Bidder:	
Authorized Signature of Bidder:	

Note: The cost for maintenance must be quoted after expiry of the warranty period e.g. if a component is having three year warranty than the price charged for such maintenance shall be applicable after expiry of the warranty period.

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Grand Summary Cost Table: - Lot-2

		[insert: ***Local Currency*** *]* Price	*[insert:* ***Foreign Currency*** Price
1. Supply and Installation Costs			
1. Recurrent Costs			
2. Total Without tax			
3. Grand Totals with tax(to Bid Submission Form)			
4. Yearly equal installment (Grand total shall equally divided in 7 years)			

Name of Bidder:	
Authorized Signature of Bidder:	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Past Experience / Contracts

Contracts over *[insert amount]* during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination

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Historical Contract Non-Performance, and Pending Litigation and Litigation History

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			

Year of dispute	**Amount in dispute (currency)**	**Contract Identification**	**Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	**Employer's Contact Address, Tel, Fax**	**Value of Outstanding Work [Current Eq. PKR]**	**Estimated Completion Date**	**Average Monthly Invoicing Over Last Six Months [Eq. PKR/month)]**
1					
2					
3					
4					
5					

Financial Situation and Performance

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	**Historic information for previous _[insert number] years, [insert in words] (amount in currency, currency, exchange rate*, PKR equivalent)**				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

(a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[1] for the *[number]* years required above; and complying with the requirements.

[1] If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data			
Year	**Amount** **Currency**	**Exchange rate*** **(If applicable)**	**PKR equivalent**
[indicate calendar year]	*[insert amount and indicate currency]*		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.

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