Standard Bidding Document

PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB, BAHRIA UNIVERSITY ISLAMABAD - H-11 CAMPUS (Goods)

National

Single Stage-One Envelope

November 11, 2026

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REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Bahria University (Bahria University)** has reserved Funds for the procurement planned for FY **2026-27**. The **Bahria University (Bahria University)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB, BAHRIA UNIVERSITY ISLAMABAD - H-11 CAMPUS**" with the reference of **"P194109"**

2. The **Bahria University (Bahria University)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-One Envelope** will be used by adopting **Quality Based Selection (QBS)** 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** 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/194109** 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 **Monday, November 30, 2026 11:00 AM**. E-bids will be opened using **EPADS v2.0** on the same day at **Monday, November 30, 2026 11:30 AM**. 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: **Bahria University (Bahria University)**

The subject of procurement is: **PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB, BAHRIA UNIVERSITY ISLAMABAD - H-11 CAMPUS**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Wednesday, December 30, 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: **P194109**

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: Friday, November 27, 2026
Pre-Bid Meeting: Monday, November 23, 2026 10:00 AM
Venue: BUIC H11 Campus Islamabad

ITB Number 8.2

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, November 27, 2026
Pre-Bid Meeting: Monday, November 23, 2026 10:00 AM
Venue: BUIC H11 Campus Islamabad

ITB Number 8.3

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, November 27, 2026
Pre-Bid Meeting: Monday, November 23, 2026 10:00 AM
Venue: BUIC H11 Campus 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. Tax Registration certificate,
2. Audit balance sheet of last 03 years.
3. Income tax return of last 03 years.
4. Bank Statement LFY.
5. The bidder must submit an affidavit on stamp paper of Rs.100/- to the fact that the bidder has not been blacklisted by any organization of the Federal/ provincial Government.

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: **90 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 : **Bahria University E8 Islamabad**
The Bid Security shall be in the form of: **Pay Order**

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;

E-8, 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: **Monday, November 30, 2026 11:00 AM**

Day *:* ***Monday***

Date: ***Monday, November 30, 2026***

Time *:* ***11:30 AM***

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 *:* ***Monday***

Date: ***Monday, November 30, 2026***

Time *:* ***11:30 AM***

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: **Quality Based Selection (QBS)**
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
NADRA CITIZENSHIP (CNIC/NICOP)
FBR (NTN)
FBR (GSTN)
Registrar of Firms

Eligibility Criteria	Document
Instructions as per the bidding document	Yes

Evaluation Criteria

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

Quality Based Selection (QBS)

Weightage (With Financial Criteria)

Technical Evaluation %	Financial Evaluation %
70	30

Technical Marks	100
Passing Marks	**60**
Technical Evaluation Criteria	
The bidder shall have successfully completed at least four (4) to five (5) projects of a similar nature and scope. Copies of relevant work orders, purchase orders, or completion certificates shall be submitted as evidence. (Qualitative)(Doc Required)	10
Must have supplied reasonable number of quantities of equipment in Pakistan. Attach evidence. (Qualitative)(Doc Required)	10
List of satisfactory customers with contact No. & Address. (Qualitative)(Doc Required)	10
Audit balance sheet of last 03 years. (Qualitative)(Doc Required)	10
Income tax return of last 03 years. (Qualitative)(Doc Required)	10

Bank Statement LFY. (Qualitative)(Doc Required)	10
Should have Head/ Main Office in Islamabad/ Rawalpindi. (Qualitative)(Doc Required)	5
OEM Supported warranty (Qualitative)(Doc Required)	5
Financial Evaluation Criteria	
Financial Statement of Last 3 years (Qualitative)(Doc Required)	10
Evidence of ability to finance procurement and delivery (Qualitative)(Doc Required)	10
The price quoted must be in Pak Rupees, inclusive of all applicable taxes, Laboring & transportation charges, if any. If there is no mention of taxes, the offered/ quoted price(s) will be considered as inclusive of all prevailing taxes/ duties etc. (Qualitative)(Doc Required)	10
Financial Marks	**10**
Fixed Technical Evaluation	
Number of items are fixed as quantity mentioned (Qualitative)(Doc Required)	10

Items/Lots

Lot Title : UPS

Bid Security : 305000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
UPS for CS Lab (Schneider or equivalent chines brand UPS 15KVA)	Uninterruptible power supply UPS	**Address:** BUIC H-11 Campus **Schedule:** 30 Days **Quantity:** 1/Qty	1 / Qty	--	1 Years
UPS for AI Lab (40 KVA) (Schneider or equivalent chines brand UPS)	Uninterruptible power supply UPS	**Address:** BUIC H-11 Campus **Schedule:** 30 Days **Quantity:** 1/Qty	1 / Qty	--	1 Years
Multimedia Projector	Multimedia projectors	**Address:** BUIC H-11 Campus **Schedule:** 30 Days **Quantity:** 1/Qty	1 / Qty	--	1 Years

Lot Title : Network Layer 2 Switch & Networking of CS Lab

Bid Security : 210000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty

Network Layer 2 Switch	Network switches	**Address:** BUIC H-11 Campus **Schedule:** 60 Days **Quantity:** 2/Qty	2 / Qty	--	1 Years
Dual-Band Wireless USB Adapter	Wireless network interface cards	**Address:** BUIC H-11 Campus **Schedule:** 30 Days **Quantity:** 5/Qty	5 / Qty	--	1 Years
Networking of CS Lab	Network cable	**Address:** BUIC H-11 Campus **Schedule:** 50 Days **Quantity:** 1/job	1 / job	--	--

Lot Title : Furniture for AI Lab

Bid Security : 125000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Curved Collaborative Workstation Desk / Pods	Tables	**Address:** BUIC H-11 Campus **Schedule:** 50 Days **Quantity:** 10/Qty	10 / Qty	--	--
Lab Interior Finishing	Tables	**Address:** BUIC H-11 Campus **Schedule:** 50 Days **Quantity:** 10/Qty	10 / Qty	--	--

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Lab Chair	Task seating	**Address:** BUIC H-11 Campus **Schedule:** 50 Days **Quantity:** 31/Qty	31 / Qty	--	--

Lot Title : Desktop Computers with LED

Bid Security : 1140000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
Desktop Computers for CS Lab HP or Equivalent	Desktop computer	**Address:** Bahria University H11 Campus Islamabad **Schedule:** 85 Days **Quantity:** 40/Qty	40 / Qty	--	1 Years
LCD Monitors for CS and AI Lab	Liquid crystal display LCD panels or monitors	**Address:** BUIC H-11 Campus **Schedule:** 85 Days **Quantity:** 50/Qty	50 / Qty	--	1 Years
AI – Workstation (16GB GPU)	Computer workstation	**Address:** BUIC H-11 Campus **Schedule:** 85 Days **Quantity:** 4/Qty	4 / Qty	--	3 Years

Item	UNSPSC	Delivery Schedule	Quantity	Manufacturer / Dealer Authorization	Warranty
AI-WORKSTATION (8GB GPU)	Computer workstation	**Address:** BUIC H-11 Campus **Schedule:** 85 Days **Quantity:** 6/Qty	6 / Qty	--	3 Years

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Related Services of Goods:

No

UPS

Item	UNSPSC	Related Services
UPS for CS Lab (Schneider or equivalent chines brand UPS 15KVA)	Uninterruptible power supply UPS	Installation & Deployment
UPS for AI Lab (40 KVA) (Schneider or equivalent chines brand UPS)	Uninterruptible power supply UPS	Installation & Deployment
Multimedia Projector	Multimedia projectors	Installation & Deployment

Network Layer 2 Switch & Networking of CS Lab

Item	UNSPSC	Related Services
Network Layer 2 Switch	Network switches	Installation & Deployment
Dual-Band Wireless USB Adapter	Wireless network interface cards	Installation & Deployment
Networking of CS Lab	Network cable	Complete Networking with testing of each point.

Furniture for AI Lab

Item	UNSPSC	Related Services
Curved Collaborative Workstation Desk / Pods	Tables	Installation & Deployment
Lab Interior Finishing	Tables	Installation & Deployment
Lab Chair	Task seating	Installation & Deployment

Desktop Computers with LED

Item	UNSPSC	Related Services
Desktop Computers for CS Lab HP or Equivalent	Desktop computer	Installation & Deployment
LCD Monitors for CS and AI Lab	Liquid crystal display LCD panels or monitors	Installation & Deployment
AI – Workstation (16GB GPU)	Computer workstation	Installation & Deployment
AI-WORKSTATION (8GB GPU)	Computer workstation	Installation & Deployment

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Items/Lot Specification

Lot Title : UPS

Item: UPS for CS Lab (Schneider or equivalent chines brand UPS 15KVA)

UNSPSC: Uninterruptible power supply UPS

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION
1.	Equipment Type	Professional-grade three-phase Uninterruptible Power Supply (UPS)
2.	Rated Capacity	Minimum 15 kVA
3.	Output Power	Minimum 15 kW preferred; bidder must clearly declare rated kVA and kW
4.	UPS Technology	True Online Double-Conversion
5.	Output Waveform	Pure Sine Wave
6.	Input Phase	Three-phase input, 3P+N+PE
7.	Output Phase	Three-phase output, 3P+N+PE
8.	Nominal Input Voltage	380/400/415 VAC, three-phase
9.	Nominal Output Voltage	380/400/415 VAC, three-phase
10.	Input Frequency	50 Hz nominal; 50/60 Hz compatibility

S.No	PARAMETER	REQUIRED SPECIFICATION
11.	Output Frequency	50 Hz nominal, regulated
12.	Input Power Factor	Minimum 0.99 at rated load
13.	Output Power Factor	Minimum 0.9; 1.0 preferred
14.	Output Voltage Regulation	±1% or better under steady-state conditions
15.	Output Frequency Regulation	±0.1 Hz or better in battery mode
16.	Input Current Harmonic Distortion	Maximum 5% THDi preferred at rated linear load
17.	Output Voltage THD	Maximum 3% preferred for linear load
18.	Transfer Time	Zero transfer time between online operation and battery operation
19.	Bypass	Automatic static bypass and maintenance bypass provision
20.	Battery Type	Built-in sealed maintenance-free rechargeable batteries, preferably VRLA AGM or OEM-approved equivalent
21.	Battery Arrangement	Internal battery bank supplied and installed by the OEM or authorized supplier
22.	Battery Quantity and Rating	Bidder shall declare the number of batteries, voltage, Ah rating, DC voltage and battery-string configuration
23.	Battery Backup Time	52 latest computers with LCDs is the load. Minimum 10 minutes or above must be the battery backup time
24.	Battery Protection	Protection against deep discharge, overcharging, short circuit and abnormal battery conditions

S.No	PARAMETER	REQUIRED SPECIFICATION
25.	Battery Monitoring	Battery status monitoring, low-battery alarm and battery-fault indication
26.	Battery Replacement	Replaceable batteries using the manufacturer's recommended procedure
27.	Battery Charger	Automatic battery charger with controlled charging
28.	Overload Protection	Electronic overload protection with alarm and bypass/shutdown according to OEM limits
29.	Short-Circuit Protection	Output short-circuits protection
30.	Surge Protection	Input surge protection and protection against abnormal input conditions
31.	Display	LCD or equivalent display showing input/output voltage, frequency, load, battery status, alarms and operating mode
32.	Audible and Visual Alarms	Alarms for mains failure, battery operation, low battery, overload, bypass and fault conditions
33.	Communication Interfaces	USB and/or RS-232 communication interface
35.	Efficiency	High-efficiency operation; manufacturers shall declare online operating efficiency
37.	Operating Temperature	Suitable for normal indoor institutional environments; bidder shall declare the operating-temperature range
38.	Earthing	Protective-earth connection and compliance with applicable electrical safety requirements
39.	Electrical Accessories	Required terminals, cables, protective devices and installation accessories shall be included or itemized

S.No	PARAMETER	REQUIRED SPECIFICATION
40.	Production Condition	Brand-new, unused and factory-sealed; refurbished or reconditioned equipment shall not be accepted
41.	UPS Warranty	Minimum one-year comprehensive warranty
42.	Installation and Commissioning	Installation, startup, electrical checks, battery checks and commissioning by qualified personnel

Item: UPS for AI Lab (40 KVA) (Schneider or equivalent chines brand UPS)

UNSPSC: Uninterruptible power supply UPS

Specifications / Requirements:

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Quantity	01 (One) complete UPS system, including battery cabinet/rack, interconnection cables, protective devices, bypass arrangement, and standard accessories.	1
2.	Application	Suitable for a university AI laboratory providing conditioned and uninterrupted power to AI workstations, GPU computing systems, networking equipment, and associated critical loads.	

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
3.	UPS Technology	3 phase True online double-conversion, static UPS; continuous inverter operation during normal mode.	
4.	Rated Apparent Power	Minimum 40 kVA.	
5.	Rated Active Power	Minimum 40 kW real output power (40 kVA / 40 kW at unity power factor). Bidder must clearly state rated kVA, rated kW, and output power factor. A lower active-power rating shall be declared as a deviation.	
6.	Input Configuration	Three-phase input, 3 Phase + Neutral + Protective Earth (3P+N+PE).	
7.	Output Configuration	Three-phase output, 3 Phase + Neutral + Protective Earth (3P+N+PE).	
8.	Nominal Input Voltage	380/400/415 VAC, three-phase, 50 Hz, or compatible with the site electrical supply; bidder must state permissible input range.	
9.	Input Voltage Range	Wide input-voltage tolerance suitable for the local electrical supply without unnecessary battery operation; declare exact range at full and partial load.	
10.	Input Frequency	50 Hz nominal; declare acceptable input-frequency range.	
11.	Input Power Factor	At least 0.99 at full load, preferred.	
12.	Input Current THDi	Maximum 5% at full load, preferred, with the stated input voltage and load conditions identified by the manufacturer.	

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
13.	Output Voltage	Selectable or configurable 380/400/415 VAC three-phase, compatible with connected equipment.	
14.	Output Voltage Regulation	Within ±1% under steady-state balanced linear-load conditions or better; declare performance under nonlinear and unbalanced loads.	
15.	Output Frequency	50 Hz nominal.	
16.	Output Frequency Regulation	Within ±0.1 Hz in battery mode or better.	
17.	Output Power Factor	Output power factor must support the specified minimum 40 kW real output at rated conditions. Bidder must declare rated output power factor and corresponding kVA/kW ratings.	
18.	Output Waveform	Pure sine wave with low harmonic distortion.	
19.	Output Voltage THDv	Maximum 3% with linear load, preferred; bidder must state nonlinear-load performance and OEM test conditions.	
20.	Transfer to Battery	No-break transfer to battery through the online inverter; zero transfer time for normal online-to-battery operation.	
21.	Automatic Static Bypass	Built-in automatic static bypass to supply the load during overload or UPS fault conditions, within manufacturer limits.	
22.	Maintenance Bypass	Maintenance bypass arrangement to permit safe UPS servicing while maintaining supply to the load. State whether internal or external; include all required components.	

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
23.	Backup Autonomy	Minimum 15 minutes at a 32 kW critical load; 20 minutes preferred. Bidder must submit an OEM-supported runtime calculation for the exact UPS and battery configuration.	
24.	Runtime Declaration	State autonomy at 25%, 50%, 75%, and 100% of the defined design load where supported.	
25.	Overload Capability	Declare overload capacity and duration for inverter and bypass operation, including response at 110%, 125%, and 150% load where supported.	
26.	Short-Circuit Protection	Output short-circuit protection, fault isolation, and safe return to normal operation as specified by the manufacturer.	
27.	Surge and Electrical Protection	Appropriate input/output protection and protections against abnormal voltage, over/under-voltage, over-temperature, and internal faults.	
28.	Power Factor / Load Compatibility	Suitable for modern switched-mode power supplies and nonlinear loads typically used in AI workstations and IT equipment.	
29.	Display and User Interface	LCD or equivalent local interface showing input/output voltage and frequency, load level, operating mode, battery status, alarms, and event information.	
30.	Audible and Visual Alarms	Alarms for mains failure, battery operation, low battery, overload, bypass, over-temperature, and UPS/battery fault.	
31.	Communication Interfaces	At least one supported local communication interface, such as USB, RS-232, or RS-485, as applicable to the offered model.	

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
32.	Network Management	Preferred: SNMP/network monitoring capability to be included or separately itemized. Provide compatible monitoring software/card details and supported protocols.	
33.	Efficiency	Declare online-mode efficiency at 50% and 100% load. Minimum 94% online efficiency preferred at representative operating load.	
34.	Cooling	OEM-designed cooling system with monitored fans and suitable airflow for continuous operation in the installation environment.	
35.	Operating Conditions	State allowable operating temperature, humidity, altitude, ventilation clearance, and any derating requirements.	
36.	Noise Level	Declare manufacturer-rated acoustic noise level at a stated load and distance.	
37.	Installation Form	Floor-standing cabinet design or modular cabinet arrangement appropriate for a 40 kVA three-phase UPS.	
38.	Earthing and Wiring	Supply terminals and installation instructions for protective earth, input, output, and battery connections. Installation shall meet applicable electrical codes and site requirements.	
39.	Warranty	Minimum one-year OEM-backed warranty for UPS and accessories State whether warranty is onsite.	
40.	Product Condition	New, unused, genuine equipment in original manufacturer packaging.	

__EMPTY	__EMPTY_1	__EMPTY_2	__EMPTY_3
41.	Installation and Commissioning	Install, interconnect, configure, and commission the complete system at the designated AI lab site, including battery cabinet and bypass arrangement.	
42.	Site Survey	Conduct a pre-installation site survey to verify incoming supply, earthing, cable routes, ventilation, access, floor loading, and available space; submit observations before installation.	

Item: Multimedia Projector

UNSPSC: Multimedia projectors

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION
1.	Type	Professional/Business-Class Multimedia Projector suitable for university classrooms, lecture halls, conference rooms and presentations
2.	Projection Technology	3-Chip LCD / 3LCD technology with separate RGB imaging panels
3.	Light Source	Laser diode / solid-state laser light source; lamp-based projector shall not be acceptable
4.	Brightness	Minimum 4,000 ANSI Lumens

S.No	PARAMETER	REQUIRED SPECIFICATION
5.	Brightness Measurement	Brightness shall be stated in ANSI lumens and supported by the manufacturer's official datasheet
6.	Native Resolution	WUXGA – 1920 × 1200 pixels
7.	Aspect Ratio	Native 16:10, with support for common 16:9 and 4:3 input formats
8.	Display Panels	3 × LCD panels, preferably approximately 0.64-inch class or higher, with minimum 2.3 million native pixels
9.	Contrast Ratio	Minimum 3,000,000:1 dynamic contrast ratio or better
10.	Color Reproduction	High-quality full-color reproduction suitable for text, engineering diagrams, presentations, videos and multimedia content
11.	Light Source Life	Minimum 20,000 hours in Normal/Standard mode and preferably 24,000 hours or more in Eco mode
12.	Uniformity	Minimum 80% brightness uniformity, or manufacturer's equivalent professional-grade specification
13.	Lens	High-quality optical lens with manual or powered focus and minimum 1.6× optical zoom or equivalent installation flexibility
14.	Throw Ratio	Approximately 1.1–1.8:1 or better, allowing flexible installation in classrooms and lecture rooms
15.	Lens Shift	Vertical and horizontal lens-shift capability preferred; minimum approximately ±40% vertical and ±15% horizontal, or equivalent
16.	Screen Size	Capable of projecting approximately 50-inch to 100-inch or larger images; preferably supporting up to 300-inch class where installation permits

S.No	PARAMETER	REQUIRED SPECIFICATION
17.	HDMI Input	Minimum 2 × HDMI inputs, supporting Full HD/WUXGA signals and HDCP
18.	Audio Input	stereo audio inputs or equivalent
19.	Audio Output	Minimum 1 × audio output
20.	Network	Built-in RJ-45 LAN port for network-based monitoring and control.
21.	USB	Minimum 1 × USB Type-A for supported media/viewer/wireless functions
22.	4K Input Support	Preferably capable of accepting 4K input signals and scaling them to native WUXGA, where supported by the proposed model
23.	Image Adjustment	Automatic/manual image adjustment, colour adjustment, brightness/contrast adjustment, aspect-ratio selection and picture modes
24.	Screen Correction	Advanced geometric correction such as horizontal/vertical keystone and preferably multi-point/corner correction
25.	Focus	Manual or powered optical focus with precise image adjustment
26.	Built-in Speaker	Build-in Speakers are preferable
27.	Remote Control	Original manufacturer-supplied wireless remote control with batteries
28.	Noise Level	Preferably ≤30 dB in Eco/Quiet mode and suitable for classroom/meeting-room operation
29.	Power Saving	Eco/Quiet operating modes and automatic power-saving/standby features
30.	Accessories	Original power cable, remote control, batteries, required cables, user's manual and all standard accessories required for normal operation
31.	Warranty	Minimum 3 years comprehensive manufacturer's warranty for projector; minimum 3 years or manufacturer's standard laser/light-source warranty, whichever is higher

S.No	PARAMETER	REQUIRED SPECIFICATION
32.	Product Condition	Brand-new, factory-sealed, unused and current production model
33.	OEM Verification	Bahria University reserves the right to verify model, serial number, configuration, warranty status and authenticity directly through the manufacturer/OEM or authorized channel

Lot Title : Network Layer 2 Switch & Networking of CS Lab

Item: Network Layer 2 Switch

UNSPSC: Network switches

Specifications / Requirements:

S.No	ITEM DESCRIPTION	DETAILED MINIMUM TECHNICAL SPECIFICATIONS

1.	48 Port Network Switch Integration with Existing Network	48×10/100/1000 Mbps ports, 4×25 GbE SFP28 stacking/uplink-ports. Switch should support stacking of minimum 12 Switches with bandwidth of 1.2 Tbs Switch. Must support switching Capacity of 296 Gbps, forwarding performance of 220Mpps, 4GB RAM, 8GB Memory, Switch support L3 and high availability protocols like VRRP/VRRP-E, hitless failover protocol redundancy Switch Must have USB port for file/boot image transfer. Switch must be compatible with Existing Network Switch, Must be SDN ready and support following: OpenFlow 1.3 support Switch should support Hybrid Port Mode on all the Switch Ports without any patch Brand Must be in Gartner Wired and Wireless at least 2 to 3 times in past 5 years. 3Years support must be included in Switch, support includes Advanced Hardware Replacement (Next Business Day) and Software upgrades. All switches must be of same brand. Must Attach MAL Letter to ensure OEM Warranty. Certified Engineer Resource(Attach Certificate)

Item: Dual-Band Wireless USB Adapter

UNSPSC: Wireless network interface cards

Specifications / Requirements:

S.No	ITEM DESCRIPTION	DETAILED MINIMUM TECHNICAL SPECIFICATIONS

1	Dual-Band Wireless USB Adapter	USB wireless network adapter supporting both 2.4 GHz and 5 GHz bands; IEEE 802.11ac or better; minimum combined wireless capability appropriate for enterprise use with speed for more than 400 MBPS at 5Ghz, and 200 MBPS at 2.4Ghz; USB 3.0 preferred; support for WPA2/WPA3 security where supported by the operating system; compatible with existing desktop/laptop operating systems. OEM drivers and documentation shall be provided.

Item: Networking of CS Lab

UNSPSC: Network cable

Specifications / Requirements:

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
2	24-Port CAT6A Modular Patch Panel	19-inch rack-mountable, 24-port CAT6A patch panel, shielded, modular design, compatible with CAT6A shielded keystone jacks; supports 10GbE; suitable for termination of 23 AWG solid copper cable; ports numbered and clearly labelled; includes earthing/grounding provision and required rack-mounting accessories.

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
3	1U Horizontal Cable Manager	Standard 19-inch rack-mountable 1U cable manager with removable/detachable front cover or cable management plate; durable metal body or heavy-duty construction; suitable for orderly routing and strain relief of copper patch cords.
4	9U Network Rack with 600mm Depth	Wall-mountable network rack, 9U as specified in the BOQ, black powder-coated metal body, lockable front door, Minimum 600 mm depth where required by installed equipment. Include mounting hardware, ventilation provisions
5	Network Rack PDU	Rack-mountable power distribution unit compatible with the supplied rack; minimum 4–6 outlets or as required by the final equipment load
6	Dual-Shutter Faceplate	Durable wall/floor outlet faceplate with dual-shutter provision where applicable; suitable for installation of the specified CAT6A I/O module; screw-mounted, professional finish, and compatible with the selected back box.
7	CAT6A Shielded Toolless I/O	CAT6A shielded toolless I/O module for LAN outlet termination; 10GBASE-T compatible; supports the specified cable conductor gauge; proper shielding continuity and grounding; compatible with the faceplate and back box.
8	CAT6A Patch Cord, 1 Metre	Factory-manufactured 1-metre CAT 6A Class EA, S/FTP, Twisted Pair Patch Cord, Cu, LSZH,

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
9	8-Port Metal-Body ODF	8-port optical distribution frame/box, metal body with durable finish; suitable for single-mode fiber termination; compatible with the specified fiber cable and LC/LC patch cords through appropriate adapters; includes splice tray, cable-entry/strain-relief arrangement, labeling provision and mounting accessories. The bidder shall specify whether the offered ports are LC duplex or another connector arrangement.
10	Clipsal-Type Power Socket	Genuine branded or technically equivalent, appropriately rated power socket compatible with the specified installation; suitable for local electrical supply, with earth connection and safety shutters where applicable. Rating, socket configuration and certification shall be stated.
11	Electrical Back Box	Durable metal or heavy-duty PVC back box, sized to suit the specified faceplate/power socket; includes mounting provision and cable entry; suitable for wall, floor box or surface installation as applicable.
12	Power Cable Roll	Copper-conductor power cable of suitable cross-section, insulation and current rating for the connected load and installation method; compliant with applicable electrical standards; cable size shall be determined from load, cable length, installation conditions and protective-device rating.
13	Cable Tie Packet	Nylon cable ties suitable for structured cabling; durable, non-corrosive, suitable length and tensile strength for the installation; supplied in sealed packets. Ties shall be installed without excessive compression or damage to data/fiber cables.

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14	12-Core Single-Mode Fiber Cable	12-core single-mode optical fiber cable, OS2, compliant with ITU-T G.652.D or equivalent; suitable for the intended indoor/outdoor route as applicable; low attenuation, durable jacket, appropriate tensile strength and bend-radius characteristics. Cable construction, water blocking, armoring and LSZH/UV-resistant properties shall be selected according to the actual route and environment.
15	Single-Mode Fiber Patch Cord, 1 Metre	1-metre single-mode fiber patch cord, LC-to-LC connector arrangement as specified; factory-terminated and tested; low insertion loss and return loss; suitable for the supplied optical distribution frame and transceiver.
16	10G Single-Mode SFP+ Module	10GbE SFP+ optical transceiver, single-mode fiber compatible; wavelength and reach suitable for the actual fiber route, e.g. 1310 nm for a compatible 10GBASE-LR link; LC optical interface where required; compatible with both the existing switch and the newly quoted switch. OEM-supported or explicitly approved compatible module, with warranty. The bidder shall state exact part number, wavelength, optical budget, supported reach and switch compatibility.
17	Cable Tray/Channel	Heavy-duty metal cable tray/channel designed for floor installation; adequate width, depth and load capacity for the installed cable quantity; smooth edges, secure joints, bends, covers and mounting accessories; corrosion-resistant finish. Dimensions and route shall be confirmed at site.

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18	Fiber Splicing and OTDR Testing	Professional termination/splicing of single-mode fiber cores using fusion splicing; installation of splice protectors and splice trays; testing of each installed core using an appropriate OTDR at 1310 nm and 1550 nm, where applicable; provide test reports showing link length, attenuation, splice events and connector events. Optical power/loss testing shall also be performed as appropriate.
19	PVC Cable Duct/Conduit	PVC duct/conduit in the required dimensions, including 16 × 28 mm, 16 × 25 mm and 40 × 40 mm, or equivalent commercially available sizes matching the approved site design. Include bends, tees, joints, end caps, mounting accessories and covers. Dimensions shall be stated in the BOQ and verified at site before supply.
20	Network Cable Tagging and Termination	Identification, labeling and termination of all network cables at both ends; labels shall be durable, machine-printed or equivalent, and consistent with the approved port schedule. Termination shall follow the same approved wiring scheme throughout. Provide an updated port/cable schedule after completion.
21	Network Cable Laying and Installation	Complete installation of copper and fiber cables through approved trays, ducts, conduits, ceiling pathways or floor routes. Includes pulling, routing, bend-radius compliance, segregation from electrical cables, cable support, dressing, securing, termination and labeling. Cable installation shall comply with the applicable structured cabling standards and manufacturer's requirements.

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22	Floor Cutting and Reinstatement	Controlled floor cutting for approved cable routes, including provision of a suitable protective cover/channel, safe cable passage, and reinstatement of the affected floor surface. Work shall include debris removal, protection of adjacent services and finishing to the Procuring Agency's satisfaction. Route, dimensions and cover load rating shall be approved before work starts.
23	Switch Integration and Configuration	Installation and integration of the supplied switch with the existing network; includes mounting, uplink configuration, VLANs, trunk/access ports, management IP, routing or other approved settings, firmware verification, compatibility checks and operational testing. Configuration shall follow the Procuring Agency's approved network design and change management procedure.
24	One-Year Technical Support	One-year support from successful commissioning and acceptance; includes troubleshooting, configuration assistance, fault diagnosis, corrective maintenance and coordination with the OEM for covered hardware faults. Support hours, response time, escalation path and exclusions shall be stated in the bidder's proposal.
25	Trenching / Cable Trench Works	Excavation of trenches along the approved route for laying fiber/network ducting; includes marking, excavation to the approved depth and width, safe handling of existing utilities, duct/conduit installation, warning tape where required, backfilling, compaction and surface reinstatement. Actual dimensions, route length, surface type and restoration requirements shall be determined by a site survey and itemized in the BOQ.

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26	Network Terms & Conditions	The project involves the Complete Trunkey solution and supply, installation, configuration, testing, and commissioning of a structured LAN cabling infrastructure for a computer laboratory comprising 52 computer systems. The network should be implemented using CAT6A structured cable to provide reliable, high-speed connectivity, organized cable management, and scalability for future expansion.
		Infrastructure shall include:
		Dedicated CAT6A cable runs from the network rack to all 52 computer workstations.
		Additional network outlets for the instructor workstation, printer, server, or other designated devices, where required.
		Proper cable routing through conduits, trunking, cable trays, floor ducts, or other approved pathways.
		Proper labeling of cables and outlets at both ends.
		All necessary connectors, faceplates, back boxes, patch panels, patch cords, cable management accessories, and fixing materials.
		Gigabit Ethernet connectivity to each workstation.
		Suitable uplink ports for connection to the existing campus network.
		VLAN configuration and IP addressing, where required by the client.

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	Integration with the existing LAN, internet connection, and institutional network policies.	
	All necessary switch configuration, patching, and accessories.	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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The proposed equipment is genuine OEM equipment.		
The equipment is brand new and unused.		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
The proposed model is currently supported by the manufacturer.		
All stated specifications are supported by official OEM documentation.		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
1 Year OEM support is included.		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
The bidder shall have successfully completed at least four (4) to five (5) projects of a similar nature and scope. Copies of relevant work orders,		

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	Must be authorized partner of product Quoted (attach partner Certificate)	
	Must have CCIE or equivalent Engineer for Support and integration.	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
Firm must have two to three certified engineers of quoted product.		
Next Business Day, Advanced Hardware Replacement is included.		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
Software/firmware upgrades are included during the support period.		
The proposed equipment is compatible with the existing network environment.		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**

No unauthorized hardware/software substitution shall be made.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**
Bahria University may verify the equipment and support entitlement directly with the OEM. (attach MAL Letter from OEM).		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	**CAT6A Cable Roll, LSZH, 500 Meters**	**CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.**

Any counterfeit refurbished or unauthorized equipment shall be replaced at the supplier's cost.

Lot Title : Furniture for AI Lab

Item: Curved Collaborative Workstation Desk / Pods

UNSPSC: Tables

Specifications / Requirements:

S./No	Item Description & Technical Specification
1	Curved Collaborative Workstation Desk / Pods
	l Size: overall desk size 7.2’x2’x30” custom molded curved 13” for left side & right side 4” straight Top size 72”x24” CPU hanging place & cover lockable in iron frame hanging in front side with 6 covered ventilation spaces size 10”x86.4”.
	l Metal structure: Made of M/S square pipe 1.5” thickness 38.1mmx14SWG with white powder coating 99.999% powder and plastic Glide, MIG Spot Welded, Grinned Flush
	Wooden Structure: Laminated Board MDF Pure White W#N Melamine Faced MDF PK-1001-Brilliant white thickness 66.1mm with HPL 1.0mm + 1.5mm PVC Lipping (Rehau Machine)

Item: Lab Interior Finishing

UNSPSC: Tables

Specifications / Requirements:

1	Lab Interior Finishing
	l 12mm Glass Work: Behind Glass Best Quality Printable Paper (720 DPI Eco-Solvent) one vision paper 535sqft with doors

1	Lab Interior Finishing
	l Wall & Pillars: wall design in paint & lamination sheets with Dodecahedron shape in 2 colors with PVC lipping
	l Window Blinds: Back wall 2 Wooden Blinds Bring natural warmth, rich grain patterns, and a timeless, organic look to living rooms and studies
	l White Board: Front wall design & adjust fit white board in design 180sqft
	Tile Carpet: size 705sqft double shade carpet tile with Aluminium strips with installation

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Item: Lab Chair

UNSPSC: Task seating

Specifications / Requirements:

3	Lab Chair
	l Standard Mesh & Fabric: Features a breathable, horizontal linear black mesh backrest paired with a soft-touch black fabric foam-padded seat.
	l Antimicrobial Vinyl: Designed primarily for healthcare environments, featuring a full antimicrobial vinyl seat and backrest that resists bacteria, mold, and mildew for easy sanitation.

3	Lab Chair
	l Adjustable Flip-Up Arms: The armrests can be flipped upright out of the way to allow closer proximity to desks or easier entry/exit.
	l Tilt Mechanism: Equipped with a spring-tilt mechanism, upright locking position, and an adjustable knob to customize tilt tension.
	l Height Adjustment: Uses a pneumatic gas lift to adjust the seat height
	l Weight Capacity: Supports up to 275 lbs.
	Dimensions: Measures approximately 24.5" Wide x 25.5" Deep, with an overall height range of 38" to 41"

Lot Title : Desktop Computers with LED

Item: Desktop Computers for CS Lab HP or Equivalent

UNSPSC: Desktop computer

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION

1	Equipment Type	Branded business/corporate desktop computer
2	Form Factor	Tower / Compact Tower
3	Processor Generation	14th-generation Core i7-class or technically equivalent
4	Processor Performance	Minimum equivalent to a processor having 20 physical cores and 28 threads
5	Maximum Turbo Frequency	5.4 GHz or higher
6	Processor Cache	33 MB or higher
7	Architecture	64-bit x86-64
8	RAM	16 GB minimum. Upgradable up to 32GB
9	RAM Type	DDR5
10	RAM Speed	5600 MT/s or higher, subject to processor/system support
11	RAM Slots	Minimum 2 DIMM slots
12	RAM Upgradeability	Minimum support for 32 GB system memory
13	Primary Storage	512 GB minimum
14	Storage Type	M.2 NVMe PCIe SSD
15	SSD Interface	PCIe Gen4 or better
16	Graphics	Integrated graphics capable of Full HD display output
17	Multi-Display	Support for at least two displays
18	LAN	Integrated 10/100/1000 Mbps Gigabit Ethernet

19	Video Output	HDMI and DisplayPort or technically equivalent digital display interfaces
20	Audio	Integrated audio
21	Front Audio	Headset/audio connectivity
22	Power Supply	Internal PSU suitable for the complete supplied configuration; minimum 180W or system manufacturer's standard PSU of equal/better capability
23	Keyboard	A4 Tech USB wired keyboard
24	Mouse	A4 Tech USB optical wired mouse
25	Power Cable	Original/compatible factory-standard power cable
26	Condition	Branded, Brand-new, unused and factory-sealed
27	Warranty	Minimum 1 year
28	Delivery	Maximum 8 – 12 weeks

Item: LCD Monitors for CS and AI Lab

UNSPSC: Liquid crystal display LCD panels or monitors

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION
1	Monitor Type	Branded LED/LCD business monitor

S.No	PARAMETER	REQUIRED SPECIFICATION
2	Screen Size	21.5-inch (22” class)
3	Resolution	1920 × 1080 Full HD
4	Aspect Ratio	16:09
5	Panel Technology	VA or technically equivalent/better
6	Refresh Rate	100 Hz minimum
7	Response Time	Maximum 8 ms; lower is preferred
8	Brightness	250 cd/m² minimum
9	Native Contrast	3000:1 or better
10	Viewing Angle	Approximately 178° horizontal / 178° vertical or better
11	Colour Support	Minimum 16.7 million colours
12	Backlight	LED
13	Surface	Anti-glare
14	HDMI	Minimum 1 × HDMI
15	Stand	Included
16	Power	Energy-efficient operation
17	Power Cable	Included
18	Video Cable	HDMI cable as required for supplied configuration
19	Condition	Branded, Brand-new and factory-sealed

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

S.No	PARAMETER	REQUIRED SPECIFICATION
20	Warranty (Workstation & LED)	1 year

Item: AI – Workstation (16GB GPU)

UNSPSC: Computer workstation

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION
1.	Workstation Type	High-performance tower workstations suitable for AI development, machine learning, deep learning, GPU-accelerated computing, data analytics, and research workloads.
2.	Processor	Intel Core Ultra 9 285 or equivalent, with 24 cores and 24 threads, 36 MB cache, processor frequency up to 5.6 GHz, and 65W base processor power.
3.	Processor Architecture	Modern multi-core desktop processors with integrated AI acceleration/NPU features where supported by the offered processor.
4.	Memory Capacity	128 GB RAM, configured as 4 × 32 GB.
5.	Memory Type	DDR5, 5600 MT/s, non-ECC, or compatible OEM-supported memory.
6.	Maximum Memory Expandability	Supplier must declare the maximum supported memory capacity and available memory slots.

S.No	PARAMETER	REQUIRED SPECIFICATION
7.	Graphics Processing Unit (GPU)	Dedicated high-performance NVIDIA GeForce RTX 5080 or equivalent GPU suitable for AI model development and GPU-intensive computing.
8.	GPU Memory	Minimum 16 GB dedicated GDDR7 graphics memory.
9.	GPU Display Outputs	Minimum three DisplayPort outputs and one HDMI output, either directly on the GPU or through OEM-supported interfaces.
10.	GPU Compute Capability	GPU must support modern CUDA-based AI and deep-learning frameworks, subject to the offered GPU's official software compatibility.
11.	Primary Storage	Minimum 1 TB M.2 2280 PCIe Gen4 NVMe SSD. + 2TB 7200 RPM, 3.5 inch, SATA HDD
12.	SSD Technology	TLC NAND flash with dedicated DRAM cache, or equivalent documented performance characteristics.
13.	Storage Security	Self-Encrypting Drive (SED)-ready capability, where supported by the offered SSD and workstation.
14.	Additional Storage Expansion	Suppliers must declare available M.2 slots, SATA interfaces, and supported additional storage options.
15.	Power Supply Unit	1500W power supply, OEM-approved and suitable for the offered CPU and GPU configuration.
16.	Power Supply Efficiency	80 PLUS Platinum certified or equivalent independently verifiable efficiency certification.
17.	Power Protection	Appropriate internal electrical protection and OEM-approved power delivery for all installed components.

S.No	PARAMETER	REQUIRED SPECIFICATION
18.	Chassis	Tower chassis with adequate internal space, ventilation, and manufacturer-approved support for the offered GPU.
19.	Cooling System	OEM-approved CPU and GPU cooling solution suitable for sustained high-performance computing workloads.
20.	Motherboard and Expansion	OEM-compatible motherboard supporting the offered processor, DDR5 memory, GPU, NVMe storage, and required expansion interfaces.
21.	Network Connectivity	Integrated Gigabit Ethernet or faster. Supplier must specify the exact network interface and speed.
22.	Wireless Connectivity	Suppliers must state whether Wi-Fi and Bluetooth are included; include them if required by the university.
23.	Keyboard and Mouse	OEM-compatible wired keyboard and optical mouse, included with each workstation.
24.	AI Software Compatibility	Hardware must support commonly used AI development environments and frameworks, including Python, PyTorch, TensorFlow, and compatible GPU drivers.
25.	Warranty	Minimum three-year OEM-backed warranty preferred, with onsite support. Bidder must clearly state coverage and service response terms.
26.	Product Condition	All equipment must be brand-new, unused, genuine, and supplied in original manufacturer packaging. Refurbished or reconditioned equipment is not acceptable.
27.	Documentation and Verification	Bidder must provide official OEM datasheets, exact model/configuration details, GPU and memory specifications, warranty evidence, and a point-by-point compliance statement.

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S.No	PARAMETER	REQUIRED SPECIFICATION
28.	Installation and Testing	Suppliers shall install and test all four workstations, verify CPU/RAM/GPU/storage recognition, check display connectivity, and demonstrate successful GPU driver installation.
29.	Delivery and Acceptance	All four workstations must be delivered with their specified accessories and accepted after physical inspection and functional testing by the university's authorized technical team.

Item: AI-WORKSTATION (8GB GPU)

UNSPSC: Computer workstation

Specifications / Requirements:

S.No	PARAMETER	REQUIRED SPECIFICATION
1.	Workstation Category	Professional tower workstations suitable for engineering applications, software development, AI development, visualization, data analysis, and GPU-accelerated workloads.
2.	Reference Configuration	Dell Pro Max Tower T2 FCT2250, configuration reference XCTO_FCT2250_APAC, or a technically equivalent workstation meeting all stated requirements.

S.No	PARAMETER	REQUIRED SPECIFICATION
3.	Processor	Intel Core Ultra 9 285 processor or equivalent, with 24 cores, 24 threads, 36 MB cache, base frequency of 1.9 GHz and maximum turbo frequency up to 5.6 GHz; nominal base processor power 65 W.
4.	Processor Compatibility	The processor and workstation platform must be OEM-supported and supplied as a complete, factory-configured system.
5.	Installed Memory	Minimum 32 GB RAM, configured as 2 × 16 GB modules.
6.	Memory Type and Speed	DDR5 memory, 5600 MT/s, non-ECC, or the closest OEM-supported configuration that meets or exceeds the specified capacity and performance.
7.	Memory Expandability	Bidder must declare the maximum supported memory capacity and number of available memory slots.
8.	Dedicated Graphics	Professional dedicated GPU equivalent to NVIDIA RTX A1000, with minimum 8 GB dedicated GDDR6 graphics memory.
9.	Graphics Outputs and Adapters	GPU must support four Mini DisplayPort (mDP) outputs or equivalent OEM-supported display outputs. Include four mDP-to-DisplayPort adapters where required for the supplied GPU.
10.	GPU and Driver Support	GPU must have manufacturer-supported drivers and be compatible with commonly used professional visualization, design, development, and GPU-accelerated applications.
11.	Primary Storage	Minimum 2 TB M.2 2280 PCIe Gen4 NVMe solid-state drive (SSD).
12.	SSD Technology	TLC NAND SSD with dedicated DRAM cache, or equivalent documented performance characteristics.

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S.No	PARAMETER	REQUIRED SPECIFICATION
13.	Storage Security	SSD shall be SED-ready where supported by the offered drive and workstation platform. Bidder must identify any additional hardware or software required to enable encryption.
14.	Additional Storage Expansion	Bidder must declare available M.2 slots, SATA interfaces, and options for expanding internal storage.
15.	Chassis	Tower chassis with adequate ventilation, service access, and internal expansion capability suitable for the supplied CPU, GPU, storage, and power components.
16.	Motherboard and Platform	OEM-compatible motherboard supporting the offered processor, DDR5 memory, dedicated GPU, NVMe SSD, and relevant expansion interfaces.
17.	Power Supply	OEM-supplied power supply with sufficient capacity for the complete offered configuration. Bidder must state the rated wattage and efficiency certification.
18.	Cooling	OEM-approved CPU and system cooling designed for reliable operation under sustained workstation workloads.
19.	Network Connectivity	Integrated Ethernet networking at 1 Gbps or faster. Bidder must state the exact interface and speed.
20.	Wireless Connectivity	Bidder must state whether Wi-Fi and Bluetooth are included. Include them if explicitly required in the university's final BOQ.
21.	Keyboard and Mouse	OEM-compatible wired keyboard and optical mouse included with each workstation.
22.	Application Compatibility	Workstation must support current 64-bit operating systems and professional applications compatible with the supplied processor, GPU, and drivers.
23.	Product Condition	All equipment must be brand-new, unused, genuine, and supplied in original manufacturer packaging. Refurbished, reconditioned, or used equipment is not acceptable.

S.No	PARAMETER	REQUIRED SPECIFICATION
24.	OEM Documentation	Provide official OEM datasheet or configuration documentation identifying the exact model, processor, installed memory, GPU and VRAM, SSD, monitor, and accessories.
25.	Warranty	Minimum three-year OEM-backed warranty preferred, with onsite support. Bidder must clearly state warranty duration, coverage, and service terms.
26.	Installation and Testing	Suppliers shall install and test the workstation, verify processor and memory detection, confirm GPU and graphics memory recognition, check SSD capacity, test display outputs, and provide required drivers.
27.	Accessories	Include all power cables, display cables/adapters, keyboard, mouse, and other standard accessories required for complete operation.
28.	Compliance Statement	Bidder must submit a point-by-point compliance statement against each requirement and identify any deviation. Compliance must be supported by official OEM documentation.
29.	Delivery and Acceptance	Equipment will be accepted after physical inspection and functional testing by the university's authorized technical representative.

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Price Schedule

For Individual Items

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

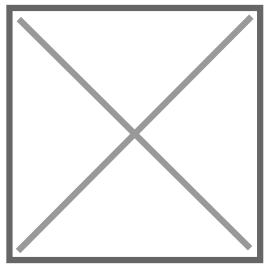
For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
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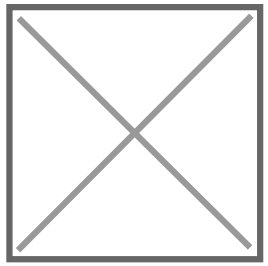
Lots Media

Lot Title : Furniture for AI Lab

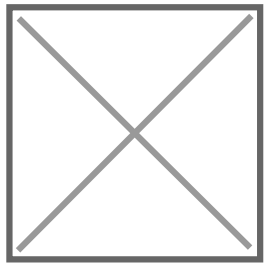
Item: Curved Collaborative Workstation Desk / Pods



Item: Lab Interior Finishing



Item: Lab Chair



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General Conditions of Contract

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: **Bahria University (Bahria University), Deputy Director E-8, Islamabad Capital Territory**

The Supplier is:

The title of the subject procurement is: **PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB, BAHRIA UNIVERSITY ISLAMABAD - H-11 CAMPUS**

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:

Bahria University (Bahria University), Deputy Director
E-8, Islamabad Capital Territory
+92-303-586-2597
ddp@bahria.edu.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:

Bahria University (Bahria University), Deputy Director
E-8, Islamabad Capital Territory
+92-303-586-2597
ddp@bahria.edu.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 **1.00%** to **10.00%** 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 : **Nil**

The amount of performance guarantee shall be **0%** of the contract price in acceptable form of **Nil**

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)

10% retention money will be retained from the successful bidder at the time of payment

Rs. 5000 tender fee non-refundable must be submitted to this office.

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

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.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bid Securing Declaration

Form 9: Bid Securing Declaration

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

Bid No.:***P194109***

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

To: **Bahria University (Bahria University), Deputy Director E-8, 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 **Bahria University (Bahria University), Deputy Director E-8, 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., **PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB, BAHRIA UNIVERSITY ISLAMABAD - H-11 CAMPUS (*P194109*)** 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: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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: **Bahria University (Bahria University), Deputy Director E-8, 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

Procument of Items for AI and CS Lab BUIC-H11

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Procument of Items for AI and CS Lab BUIC-H11** (page number: 120)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

Annex A

PROCUREMENT OF ITEMS FOR COMPUTER SCIENCE & AI LAB

1. **Desktop Computers for CS Lab**

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Equipment Type	Branded business/corporate desktop computer	40
2.	Form Factor	Tower / Compact Tower	
3.	Processor Generation	14th-generation Core i7-class or technically equivalent	
4.	Processor Performance	Minimum equivalent to a processor having 20 physical cores and 28 threads	
5.	Maximum Turbo Frequency	5.4 GHz or higher	
6.	Processor Cache	33 MB or higher	
7.	Architecture	64-bit x86-64	
8.	RAM	16 GB minimum. Upgradable up to 32GB	
9.	RAM Type	DDR5	
10.	RAM Speed	5600 MT/s or higher, subject to processor/system support	
11.	RAM Slots	Minimum 2 DIMM slots	
12.	RAM Upgradeability	Minimum support for 32 GB system memory	
13.	Primary Storage	512 GB minimum	
14.	Storage Type	M.2 NVMe PCIe SSD	
15.	SSD Interface	PCIe Gen4 or better	
16.	Graphics	Integrated graphics capable of Full HD display output	
17.	Multi-Display	Support for at least two displays	
18.	LAN	Integrated 10/100/1000 Mbps Gigabit Ethernet	
19.	Video Output	HDMI and DisplayPort or technically equivalent digital display interfaces	
20.	Audio	Integrated audio	
21.	Front Audio	Headset/audio connectivity	
22.	Power Supply	Internal PSU suitable for the complete supplied configuration; minimum 180W or system manufacturer's standard PSU of equal/better capability	
23.	Keyboard	A4 Tech USB wired keyboard	
24.	Mouse	A4 Tech USB optical wired mouse	
25.	Power Cable	Original/compatible factory-standard power cable	
26.	Condition	Branded, Brand-new, unused and factory-sealed	
27.	Warranty	Minimum 1 year	
28.	Delivery	Maximum 8 – 12 weeks	

2. **LCD Monitors for CS and AI Lab**

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Monitor Type	Branded LED/LCD business monitor	**50**
2.	Screen Size	21.5-inch (22” class)	
3.	Resolution	1920 × 1080 Full HD	
4.	Aspect Ratio	16:9	
5.	Panel Technology	VA or technically equivalent/better	
6.	Refresh Rate	100 Hz minimum	
7.	Response Time	Maximum 8 ms; lower is preferred	
8.	Brightness	250 cd/m² minimum	
9.	Native Contrast	3000:1 or better	
10.	Viewing Angle	Approximately 178° horizontal / 178° vertical or better	
11.	Colour Support	Minimum 16.7 million colours	
12.	Backlight	LED	
13.	Surface	Anti-glare	

14.	HDMI	Minimum 1 × HDMI	
15.	Stand	Included	
16.	Power	Energy-efficient operation	
17.	Power Cable	Included	
18.	Video Cable	HDMI cable as required for supplied configuration	
19.	Condition	Branded, Brand-new and factory-sealed	
20.	Warranty (Workstation & LED)	1 year	

3. **UPS for CS Lab (Schneider or equivalent chines brand UPS 15KVA)**

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Equipment Type	Professional-grade three-phase Uninterruptible Power Supply (UPS)	01
2.	Rated Capacity	Minimum 15 kVA	
3.	Output Power	Minimum 15 kW preferred; bidder must clearly declare rated kVA and kW	
4.	UPS Technology	True Online Double-Conversion	
5.	Output Waveform	Pure Sine Wave	
6.	Input Phase	Three-phase input, 3P+N+PE	
7.	Output Phase	Three-phase output, 3P+N+PE	
8.	Nominal Input Voltage	380/400/415 VAC, three-phase	
9.	Nominal Output Voltage	380/400/415 VAC, three-phase	
10.	Input Frequency	50 Hz nominal; 50/60 Hz compatibility	
11.	Output Frequency	50 Hz nominal, regulated	
12.	Input Power Factor	Minimum 0.99 at rated load	
13.	Output Power Factor	Minimum 0.9; 1.0 preferred	
14.	Output Voltage Regulation	±1% or better under steady-state conditions	
15.	Output Frequency Regulation	±0.1 Hz or better in battery mode	
16.	Input Current Harmonic Distortion	Maximum 5% THDi preferred at rated linear load	
17.	Output Voltage THD	Maximum 3% preferred for linear load	
18.	Transfer Time	Zero transfer time between online operation and battery operation	
19.	Bypass	Automatic static bypass and maintenance bypass provision	
20.	Battery Type	Built-in sealed maintenance-free rechargeable batteries, preferably VRLA AGM or OEM-approved equivalent	
21.	Battery Arrangement	Internal battery bank supplied and installed by the OEM or authorized supplier	
22.	Battery Quantity and Rating	Bidder shall declare the number of batteries, voltage, Ah rating, DC voltage and battery-string configuration.	
23.	Battery Backup Time	52 latest computers with LCDs is the load. Minimum 10 minutes or above must be the battery backup time	
24.	Battery Protection	Protection against deep discharge, overcharging, short circuit and abnormal battery conditions	
25.	Battery Monitoring	Battery status monitoring, low-battery alarm and battery-fault indication	
26.	Battery Replacement	Replaceable batteries using the manufacturer's recommended procedure.	
27.	Battery Charger	Automatic battery charger with controlled charging	
28.	Overload Protection	Electronic overload protection with alarm and bypass/shutdown according to OEM limits	
29.	Short-Circuit Protection	Output short-circuits protection	

30.	Surge Protection	Input surge protection and protection against abnormal input conditions	
31.	Display	LCD or equivalent display showing input/output voltage, frequency, load, battery status, alarms and operating mode	
32.	Audible and Visual Alarms	Alarms for mains failure, battery operation, low battery, overload, bypass and fault conditions	
33.	Communication Interfaces	USB and/or RS-232 communication interface	
34.	Network Monitoring	SNMP/network monitoring capability; required network cards shall be included and priced separately if applicable	
35.	Efficiency	High-efficiency operation; manufacturers shall declare online operating efficiency	
36.	Cooling	Forced-air cooling with temperature-controlled fans or OEM-equivalent arrangement	
37.	Operating Temperature	Suitable for normal indoor institutional environments; bidder shall declare the operating-temperature range	
38.	Earthing	Protective-earth connection and compliance with applicable electrical safety requirements	
39.	Electrical Accessories	Required terminals, cables, protective devices and installation accessories shall be included or itemized	
40.	Production Condition	Brand-new, unused and factory-sealed; refurbished or reconditioned equipment shall not be accepted	
41.	UPS Warranty	Minimum one-year comprehensive warranty	
42.	Installation and Commissioning	Installation, startup, electrical checks, battery checks and commissioning by qualified personnel	

4. AI – Workstation (16GB GPU)

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Workstation Type	High-performance tower workstations suitable for AI development, machine learning, deep learning, GPU-accelerated computing, data analytics, and research workloads.	
2.	Processor	Intel Core Ultra 9 285 or equivalent, with 24 cores and 24 threads, 36 MB cache, processor frequency up to 5.6 GHz, and 65W base processor power.	
3.	Processor Architecture	Modern multi-core desktop processors with integrated AI acceleration/NPU features where supported by the offered processor.	
4.	Memory Capacity	128 GB RAM, configured as 4 × 32 GB.	
5.	Memory Type	DDR5, 5600 MT/s, non-ECC, or compatible OEM-supported memory.	
6.	Maximum Memory Expandability	Supplier must declare the maximum supported memory capacity and available memory slots.	
7.	Graphics Processing Unit (GPU)	Dedicated high-performance NVIDIA GeForce RTX 5080 or equivalent GPU suitable for AI model development and GPU-intensive computing.	**04**
8.	GPU Memory	Minimum 16 GB dedicated GDDR7 graphics memory.	
9.	GPU Display Outputs	Minimum three DisplayPort outputs and one HDMI output, either directly on the GPU or through OEM-supported interfaces.	
10.	GPU Compute Capability	GPU must support modern CUDA-based AI and deep-learning frameworks, subject to the offered GPU's official software compatibility.	
11.	Primary Storage	Minimum 1 TB M.2 2280 PCIe Gen4 NVMe SSD. + 2TB 7200 RPM, 3.5 inch, SATA HDD	
12.	SSD Technology	TLC NAND flash with dedicated DRAM cache, or equivalent documented performance characteristics.	

13.	Storage Security	Self-Encrypting Drive (SED)-ready capability, where supported by the offered SSD and workstation.	
14.	Additional Storage Expansion	Suppliers must declare available M.2 slots, SATA interfaces, and supported additional storage options.	
15.	Power Supply Unit	1500W power supply, OEM-approved and suitable for the offered CPU and GPU configuration.	
16.	Power Supply Efficiency	80 PLUS Platinum certified or equivalent independently verifiable efficiency certification.	
17.	Power Protection	Appropriate internal electrical protection and OEM-approved power delivery for all installed components.	
18.	Chassis	Tower chassis with adequate internal space, ventilation, and manufacturer-approved support for the offered GPU.	
19.	Cooling System	OEM-approved CPU and GPU cooling solution suitable for sustained high-performance computing workloads.	
20.	Motherboard and Expansion	OEM-compatible motherboard supporting the offered processor, DDR5 memory, GPU, NVMe storage, and required expansion interfaces.	
21.	Network Connectivity	Integrated Gigabit Ethernet or faster. Supplier must specify the exact network interface and speed.	
22.	Wireless Connectivity	Suppliers must state whether Wi-Fi and Bluetooth are included; include them if required by the university.	
23.	Keyboard and Mouse	OEM-compatible wired keyboard and optical mouse, included with each workstation.	
24.	AI Software Compatibility	Hardware must support commonly used AI development environments and frameworks, including Python, PyTorch, TensorFlow, and compatible GPU drivers.	
25.	Warranty	Minimum three-year OEM-backed warranty preferred, with onsite support. Bidder must clearly state coverage and service response terms.	
26.	Product Condition	All equipment must be brand-new, unused, genuine, and supplied in original manufacturer packaging. Refurbished or reconditioned equipment is not acceptable.	
27.	Documentation and Verification	Bidder must provide official OEM datasheets, exact model/configuration details, GPU and memory specifications, warranty evidence, and a point-by-point compliance statement.	
28.	Installation and Testing	Suppliers shall install and test all four workstations, verify CPU/RAM/GPU/storage recognition, check display connectivity, and demonstrate successful GPU driver installation.	
29.	Delivery and Acceptance	All four workstations must be delivered with their specified accessories and accepted after physical inspection and functional testing by the university's authorized technical team.	

5. AI-WORKSTATION (8GB GPU)

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Workstation Category	Professional tower workstations suitable for engineering applications, software development, AI development, visualization, data analysis, and GPU-accelerated workloads.	
2.	Reference Configuration	Dell Pro Max Tower T2 FCT2250, configuration reference XCTO_FCT2250_APAC, or a technically equivalent workstation meeting all stated requirements.	**06**
3.	Processor	Intel Core Ultra 9 285 processor or equivalent, with 24 cores, 24 threads, 36 MB cache, base frequency of 1.9 GHz and maximum turbo frequency up to 5.6 GHz; nominal base processor power 65 W.	

4.	Processor Compatibility	The processor and workstation platform must be OEM-supported and supplied as a complete, factory-configured system.	
5.	Installed Memory	Minimum 32 GB RAM, configured as 2 × 16 GB modules.	
6.	Memory Type and Speed	DDR5 memory, 5600 MT/s, non-ECC, or the closest OEM-supported configuration that meets or exceeds the specified capacity and performance.	
7.	Memory Expandability	Bidder must declare the maximum supported memory capacity and number of available memory slots.	
8.	Dedicated Graphics	Professional dedicated GPU equivalent to NVIDIA RTX A1000, with minimum 8 GB dedicated GDDR6 graphics memory.	
9.	Graphics Outputs and Adapters	GPU must support four Mini DisplayPort (mDP) outputs or equivalent OEM-supported display outputs. Include four mDP-to-DisplayPort adapters where required for the supplied GPU.	
10.	GPU and Driver Support	GPU must have manufacturer-supported drivers and be compatible with commonly used professional visualization, design, development, and GPU-accelerated applications.	
11.	Primary Storage	Minimum 2 TB M.2 2280 PCIe Gen4 NVMe solid-state drive (SSD).	
12.	SSD Technology	TLC NAND SSD with dedicated DRAM cache, or equivalent documented performance characteristics.	
13.	Storage Security	SSD shall be SED-ready where supported by the offered drive and workstation platform. Bidder must identify any additional hardware or software required to enable encryption.	
14.	Additional Storage Expansion	Bidder must declare available M.2 slots, SATA interfaces, and options for expanding internal storage.	
15.	Chassis	Tower chassis with adequate ventilation, service access, and internal expansion capability suitable for the supplied CPU, GPU, storage, and power components.	
16.	Motherboard and Platform	OEM-compatible motherboard supporting the offered processor, DDR5 memory, dedicated GPU, NVMe SSD, and relevant expansion interfaces.	
17.	Power Supply	OEM-supplied power supply with sufficient capacity for the complete offered configuration. Bidder must state the rated wattage and efficiency certification.	
18.	Cooling	OEM-approved CPU and system cooling designed for reliable operation under sustained workstation workloads.	
19.	Network Connectivity	Integrated Ethernet networking at 1 Gbps or faster. Bidder must state the exact interface and speed.	
20.	Wireless Connectivity	Bidder must state whether Wi-Fi and Bluetooth are included. Include them if explicitly required in the university's final BOQ.	
21.	Keyboard and Mouse	OEM-compatible wired keyboard and optical mouse included with each workstation.	
22.	Application Compatibility	Workstation must support current 64-bit operating systems and professional applications compatible with the supplied processor, GPU, and drivers.	
23.	Product Condition	All equipment must be brand-new, unused, genuine, and supplied in original manufacturer packaging. Refurbished, reconditioned, or used equipment is not acceptable.	
24.	OEM Documentation	Provide official OEM datasheet or configuration documentation identifying the exact model, processor, installed memory, GPU and VRAM, SSD, monitor, and accessories.	
25.	Warranty	Minimum three-year OEM-backed warranty preferred, with onsite support. Bidder must clearly state warranty duration, coverage, and service terms.	
26.	Installation and Testing	Suppliers shall install and test the workstation, verify processor and memory detection, confirm GPU and graphics memory recognition, check SSD capacity, test display outputs, and provide required drivers.	

27.	Accessories	Include all power cables, display cables/adapters, keyboard, mouse, and other standard accessories required for complete operation.	
28.	Compliance Statement	Bidder must submit a point-by-point compliance statement against each requirement and identify any deviation. Compliance must be supported by official OEM documentation.	
29.	Delivery and Acceptance	Equipment will be accepted after physical inspection and functional testing by the university's authorized technical representative.	

6. UPS for AI Lab (40 KVA) Qty – 01

S.No	PARAMETER	REQUIRED SPECIFICATION	Qty
1.	Quantity	01 (One) complete UPS system, including battery cabinet/rack, interconnection cables, protective devices, bypass arrangement, and standard accessories.	
2.	Application	Suitable for a university AI laboratory providing conditioned and uninterrupted power to AI workstations, GPU computing systems, networking equipment, and associated critical loads.	
3.	UPS Technology	True online double-conversion, static UPS; continuous inverter operation during normal mode.	
4.	Rated Apparent Power	Minimum 40 kVA.	
5.	Rated Active Power	Minimum 40 kW real output power (40 kVA / 40 kW at unity power factor). Bidder must clearly state rated kVA, rated kW, and output power factor. A lower active-power rating shall be declared as a deviation.	
6.	Input Configuration	Three-phase input, 3 Phase + Neutral + Protective Earth (3P+N+PE).	
7.	Output Configuration	Three-phase output, 3 Phase + Neutral + Protective Earth (3P+N+PE).	
8.	Nominal Input Voltage	380/400/415 VAC, three-phase, 50 Hz, or compatible with the site electrical supply; bidder must state permissible input range.	
9.	Input Voltage Range	Wide input-voltage tolerance suitable for the local electrical supply without unnecessary battery operation; declare exact range at full and partial load.	
10.	Input Frequency	50 Hz nominal; declare acceptable input-frequency range.	**01**
11.	Input Power Factor	At least 0.99 at full load, preferred.	
12.	Input Current THDi	Maximum 5% at full load, preferred, with the stated input voltage and load conditions identified by the manufacturer.	
13.	Output Voltage	Selectable or configurable 380/400/415 VAC three-phase, compatible with connected equipment.	
14.	Output Voltage Regulation	Within ±1% under steady-state balanced linear-load conditions or better; declare performance under nonlinear and unbalanced loads.	
15.	Output Frequency	50 Hz nominal.	
16.	Output Frequency Regulation	Within ±0.1 Hz in battery mode or better.	
17.	Output Power Factor	Output power factor must support the specified minimum 40 kW real output at rated conditions. Bidder must declare rated output power factor and corresponding kVA/kW ratings.	
18.	Output Waveform	Pure sine wave with low harmonic distortion.	
19.	Output Voltage THDv	Maximum 3% with linear load, preferred; bidder must state nonlinear-load performance and OEM test conditions.	
20.	Transfer to Battery	No-break transfer to battery through the online inverter; zero transfer time for normal online-to-battery operation.	
21.	Automatic Static Bypass	Built-in automatic static bypass to supply the load during overload or UPS fault conditions, within manufacturer limits.	

22.	Maintenance Bypass	Maintenance bypass arrangement to permit safe UPS servicing while maintaining supply to the load. State whether internal or external; include all required components.	
23.	Backup Autonomy	Minimum 15 minutes at a 32 kW critical load; 20 minutes preferred. Bidder must submit an OEM-supported runtime calculation for the exact UPS and battery configuration.	
24.	Runtime Declaration	State autonomy at 25%, 50%, 75%, and 100% of the defined design load where supported.	
25.	Overload Capability	Declare overload capacity and duration for inverter and bypass operation, including response at 110%, 125%, and 150% load where supported.	
26.	Short-Circuit Protection	Output short-circuit protection, fault isolation, and safe return to normal operation as specified by the manufacturer.	
27.	Surge and Electrical Protection	Appropriate input/output protection and protections against abnormal voltage, over/under-voltage, over-temperature, and internal faults.	
28.	Power Factor / Load Compatibility	Suitable for modern switched-mode power supplies and nonlinear loads typically used in AI workstations and IT equipment.	
29.	Display and User Interface	LCD or equivalent local interface showing input/output voltage and frequency, load level, operating mode, battery status, alarms, and event information.	
30.	Audible and Visual Alarms	Alarms for mains failure, battery operation, low battery, overload, bypass, over-temperature, and UPS/battery fault.	
31.	Communication Interfaces	At least one supported local communication interface, such as USB, RS-232, or RS-485, as applicable to the offered model.	
32.	Network Management	Preferred: SNMP/network monitoring capability to be included or separately itemized. Provide compatible monitoring software/card details and supported protocols.	
33.	Efficiency	Declare online-mode efficiency at 50% and 100% load. Minimum 94% online efficiency preferred at representative operating load.	
34.	Cooling	OEM-designed cooling system with monitored fans and suitable airflow for continuous operation in the installation environment.	
35.	Operating Conditions	State allowable operating temperature, humidity, altitude, ventilation clearance, and any derating requirements.	
36.	Noise Level	Declare manufacturer-rated acoustic noise level at a stated load and distance.	
37.	Installation Form	Floor-standing cabinet design or modular cabinet arrangement appropriate for a 40 kVA three-phase UPS.	
38.	Earthing and Wiring	Supply terminals and installation instructions for protective earth, input, output, and battery connections. Installation shall meet applicable electrical codes and site requirements.	
39.	Warranty	Minimum one-year OEM-backed warranty for UPS and accessories State whether warranty is onsite.	
40.	Product Condition	New, unused, genuine equipment in original manufacturer packaging.	
41.	Installation and Commissioning	Install, interconnect, configure, and commission the complete system at the designated AI lab site, including battery cabinet and bypass arrangement.	
42.	Site Survey	Conduct a pre-installation site survey to verify incoming supply, earthing, cable routes, ventilation, access, floor loading, and available space; submit observations before installation.	

07. Network Layer 2 Switch & Networking of CS Lab - Quantity - 2

Scope of Work

The project involves the Complete Trunkey solution and supply, installation, configuration, testing, and commissioning of a structured LAN cabling infrastructure for a computer laboratory comprising 52 computer systems. The network should be implemented using CAT6A structured cable to provide reliable, high-speed connectivity, organized cable management, and scalability for future expansion.

Infrastructure shall include:

- Dedicated CAT6A cable runs from the network rack to all 52 computer workstations.
- Additional network outlets for the instructor workstation, printer, server, or other designated devices, where required.
- Proper cable routing through conduits, trunking, cable trays, floor ducts, or other approved pathways.
- Proper labeling of cables and outlets at both ends.
- All necessary connectors, faceplates, back boxes, patch panels, patch cords, cable management accessories, and fixing materials.
- Gigabit Ethernet connectivity to each workstation.
- Suitable uplink ports for connection to the existing campus network.
- VLAN configuration and IP addressing, where required by the client.
- Integration with the existing LAN, internet connection, and institutional network policies.
- All necessary switch configuration, patching, and accessories.
- The proposed equipment is genuine OEM equipment.
- The equipment is brand new and unused.
- The proposed model is currently supported by the manufacturer.
- All stated specifications are supported by official OEM documentation.
- 1 Year OEM support is included.
- The bidder shall have successfully completed at least four (4) to five (5) projects of a similar nature and scope. Copies of relevant work orders, purchase orders, or completion certificates shall be submitted as evidence.
- Must be authorized partner of product Quoted (attach partner Certificate)
- Must have CCIE or equivalent Engineer for Support and integration.
- Firm must have two to three certified engineers of quoted product.
- Next Business Day, Advanced Hardware Replacement is included.
- Software/firmware upgrades are included during the support period.
- The proposed equipment is compatible with the existing network environment.
- No unauthorized hardware/software substitution shall be made.
- Bahria University may verify the equipment and support entitlement directly with the OEM. (attach MAL Letter from OEM).
- Any counterfeit refurbished or unauthorized equipment shall be replaced at the supplier's cost.

S.No	ITEM DESCRIPTION	DETAILED MINIMUM TECHNICAL SPECIFICATIONS	Qty
1.	48 Port Network Switch Integration with Existing Network	48×10/100/1000 Mbps ports, 4×25 GbE SFP28 stacking/uplink-ports. Switch should support stacking of minimum 12 Switches with bandwidth of 1.2 Tbs Switch. Must support switching Capacity of 296 Gbps, forwarding performance of 220Mpps, 4GB RAM, 8GB Memory, Switch support L3 and high availability protocols like VRRP/VRRP-E, hitless failover protocol redundancy Switch Must have USB port for file/boot image transfer. Switch must be compatible with Existing Network Switch, Must be SDN ready and support following: OpenFlow 1.3 support Switch should support Hybrid Port Mode on all the Switch Ports without any patch Brand Must be in Gartner Wired and Wireless at least 2 to 3 times in past 5 years. 3Years support must be included in Switch, support includes Advanced Hardware Replacement (Next	02

		Business Day) and Software upgrades. All switches must be of same brand. Must Attach MAL Letter to ensure OEM Warranty. Certified Engineer Resource(Attach Certificate)	
2.	Dual-Band Wireless USB Adapter	USB wireless network adapter supporting both 2.4 GHz and 5 GHz bands; IEEE 802.11ac or better; minimum combined wireless capability appropriate for enterprise use with speed for more than 400 MBPS at 5Ghz, and 200 MBPS at 2.4Ghz; USB 3.0 preferred; support for WPA2/WPA3 security where supported by the operating system; compatible with existing desktop/laptop operating systems. OEM drivers and documentation shall be provided.	05
3.	CAT6A Cable Roll, LSZH, 500 Meters	CAT6A, 23 AWG, 100% pure bare copper conductor, LSZH (Low Smoke Zero Halogen) outer jacket; suitable for permanent structured LAN installation; supports 10GBASE-T Ethernet up to 100 meters over a compliant channel; 500-metre quantity supplied in properly identified boxes/reels. Cable shall comply with applicable ANSI/TIA-568.2-D or equivalent and ISO/IEC 11801 requirements. CCA (Copper-Clad Aluminum) cable shall not be accepted. Manufacturer Authorization Letter (MAL) or equivalent OEM authorization and warranty documentation shall be submitted.	05
4.	24-Port CAT6A Modular Patch Panel	19-inch rack-mountable, 24-port CAT6A patch panel, shielded, modular design, compatible with CAT6A shielded keystone jacks; supports 10GbE; suitable for termination of 23 AWG solid copper cable; ports numbered and clearly labelled; includes earthing/grounding provision and required rack-mounting accessories.	02
5.	1U Horizontal Cable Manager	Standard 19-inch rack-mountable 1U cable manager with removable/detachable front cover or cable management plate; durable metal body or heavy-duty construction; suitable for orderly routing and strain relief of copper patch cords.	02
6.	9U Network Rack with 600mm Depth	Wall-mountable network rack, 9U as specified in the BOQ, black powder-coated metal body, lockable front door, Minimum 600 mm depth where required by installed equipment. Include mounting hardware, ventilation provisions	01
7.	Network Rack PDU	Rack-mountable power distribution unit compatible with the supplied rack; minimum 4–6 outlets or as required by the final equipment load	01
8.	Dual-Shutter Faceplate	Durable wall/floor outlet faceplate with dual-shutter provision where applicable; suitable for installation of the specified CAT6A I/O module; screw-mounted, professional finish, and compatible with the selected back box.	52
9.	CAT6A Shielded Toolless I/O	CAT6A shielded toolless I/O module for LAN outlet termination; 10GBASE-T compatible; supports the specified cable conductor gauge; proper shielding continuity and grounding; compatible with the faceplate and back box.	52
10.	CAT6A Patch Cord, 1 Metre	Factory-manufactured 1-metre CAT 6A Class EA, S/FTP, Twisted Pair Patch Cord, Cu, LSZH,	104
11.	8-Port Metal-Body ODF	8-port optical distribution frame/box, metal body with durable finish; suitable for single-mode fiber termination; compatible with the specified fiber cable and LC/LC patch cords through appropriate adapters; includes splice tray, cable-entry/strain-relief arrangement, labeling provision and mounting accessories. The bidder shall specify whether the offered ports are LC duplex or another connector arrangement.	01
12.	Clipsal-Type Power Socket	Genuine branded or technically equivalent, appropriately rated power socket compatible with the specified installation; suitable for local electrical supply, with earth connection and safety shutters where	104

		applicable. Rating, socket configuration and certification shall be stated.	
13.	Electrical Back Box	Durable metal or heavy-duty PVC back box, sized to suit the specified faceplate/power socket; includes mounting provision and cable entry; suitable for wall, floor box or surface installation as applicable.	104
14.	Power Cable Roll	Copper-conductor power cable of suitable cross-section, insulation and current rating for the connected load and installation method; compliant with applicable electrical standards; cable size shall be determined from load, cable length, installation conditions and protective-device rating.	10
15.	Cable Tie Packet	Nylon cable ties suitable for structured cabling; durable, non-corrosive, suitable length and tensile strength for the installation; supplied in sealed packets. Ties shall be installed without excessive compression or damage to data/fiber cables.	05
16.	12-Core Single-Mode Fiber Cable	12-core single-mode optical fiber cable, OS2, compliant with ITU-T G.652.D or equivalent; suitable for the intended indoor/outdoor route as applicable; low attenuation, durable jacket, appropriate tensile strength and bend-radius characteristics. Cable construction, water blocking, armoring and LSZH/UV-resistant properties shall be selected according to the actual route and environment.	120
17.	Single-Mode Fiber Patch Cord, 1 Metre	1-metre single-mode fiber patch cord, LC-to-LC connector arrangement as specified; factory-terminated and tested; low insertion loss and return loss; suitable for the supplied optical distribution frame and transceiver.	04
18.	10G Single-Mode SFP+ Module	10GbE SFP+ optical transceiver, single-mode fiber compatible; wavelength and reach suitable for the actual fiber route, e.g. 1310 nm for a compatible 10GBASE-LR link; LC optical interface where required; compatible with both the existing switch and the newly quoted switch. OEM-supported or explicitly approved compatible module, with warranty. The bidder shall state exact part number, wavelength, optical budget, supported reach and switch compatibility.	04
19.	Cable Tray/Channel	Heavy-duty metal cable tray/channel designed for floor installation; adequate width, depth and load capacity for the installed cable quantity; smooth edges, secure joints, bends, covers and mounting accessories; corrosion-resistant finish. Dimensions and route shall be confirmed at site.	01
20.	Fiber Splicing and OTDR Testing	Professional termination/splicing of single-mode fiber cores using fusion splicing; installation of splice protectors and splice trays; testing of each installed core using an appropriate OTDR at 1310 nm and 1550 nm, where applicable; provide test reports showing link length, attenuation, splice events and connector events. Optical power/loss testing shall also be performed as appropriate.	16
21.	PVC Cable Duct/Conduit	PVC duct/conduit in the required dimensions, including 16 × 28 mm, 16 × 25 mm and 40 × 40 mm, or equivalent commercially available sizes matching the approved site design. Include bends, tees, joints, end caps, mounting accessories and covers. Dimensions shall be stated in the BOQ and verified at site before supply.	01
22.	Network Cable Tagging and Termination	Identification, labeling and termination of all network cables at both ends; labels shall be durable, machine-printed or equivalent, and consistent with the approved port schedule. Termination shall follow the same approved wiring scheme throughout. Provide an updated port/cable schedule after completion.	01
23.	Network Cable Laying and Installation	Complete installation of copper and fiber cables through approved trays, ducts, conduits, ceiling pathways or floor routes. Includes pulling, routing, bend-radius compliance, segregation from electrical cables,	01

		cable support, dressing, securing, termination and labeling. Cable installation shall comply with the applicable structured cabling standards and manufacturer's requirements.	
24.	Floor Cutting and Reinstatement	Controlled floor cutting for approved cable routes, including provision of a suitable protective cover/channel, safe cable passage, and reinstatement of the affected floor surface. Work shall include debris removal, protection of adjacent services and finishing to the Procuring Agency's satisfaction. Route, dimensions and cover load rating shall be approved before work starts.	01
25.	Switch Integration and Configuration	Installation and integration of the supplied switch with the existing network; includes mounting, uplink configuration, VLANs, trunk/access ports, management IP, routing or other approved settings, firmware verification, compatibility checks and operational testing. Configuration shall follow the Procuring Agency's approved network design and change management procedure.	01
26.	One-Year Technical Support	One-year support from successful commissioning and acceptance; includes troubleshooting, configuration assistance, fault diagnosis, corrective maintenance and coordination with the OEM for covered hardware faults. Support hours, response time, escalation path and exclusions shall be stated in the bidder's proposal.	01
27.	Trenching / Cable Trench Works	Excavation of trenches along the approved route for laying fiber/network ducting; includes marking, excavation to the approved depth and width, safe handling of existing utilities, duct/conduit installation, warning tape where required, backfilling, compaction and surface reinstatement. Actual dimensions, route length, surface type and restoration requirements shall be determined by a site survey and itemized in the BOQ.	01
28.	Network Terms & Conditions	The project involves the Complete Trunkey solution and supply, installation, configuration, testing, and commissioning of a structured LAN cabling infrastructure for a computer laboratory comprising 52 computer systems. The network should be implemented using CAT6A structured cable to provide reliable, high-speed connectivity, organized cable management, and scalability for future expansion. Infrastructure shall include: • Dedicated CAT6A cable runs from the network rack to all 52 computer workstations. • Additional network outlets for the instructor workstation, printer, server, or other designated devices, where required. • Proper cable routing through conduits, trunking, cable trays, floor ducts, or other approved pathways. • Proper labeling of cables and outlets at both ends. • All necessary connectors, faceplates, back boxes, patch panels, patch cords, cable management accessories, and fixing materials. • Gigabit Ethernet connectivity to each workstation. • Suitable uplink ports for connection to the existing campus network. • VLAN configuration and IP addressing, where required by the client. • Integration with the existing LAN, internet connection, and institutional network policies.	

		• All necessary switch configuration, patching, and accessories. • The proposed equipment is genuine OEM equipment. • The equipment is brand new and unused. • The proposed model is currently supported by the manufacturer. • All stated specifications are supported by official OEM documentation. • 1 Year OEM support is included. • The bidder shall have successfully completed at least four (4) to five (5) projects of a similar nature and scope. Copies of relevant work orders, purchase orders, or completion certificates shall be submitted as evidence. • Must be authorized partner of product Quoted (attach partner Certificate) • Must have CCIE or equivalent Engineer for Support and integration. • Firm must have two to three certified engineers of quoted product. • Next Business Day, Advanced Hardware Replacement is included. • Software/firmware upgrades are included during the support period. • The proposed equipment is compatible with the existing network environment. • No unauthorized hardware/software substitution shall be made. • Bahria University may verify the equipment and support entitlement directly with the OEM. (attach MAL Letter from OEM). • Any counterfeit refurbished or unauthorized equipment shall be replaced at the supplier's cost.	

8. Multimedia Projector – Qty- 01

S.No	**PARAMETER**	**REQUIRED SPECIFICATION**	**Qty**
1.	Type	Professional/Business-Class Multimedia Projector suitable for university classrooms, lecture halls, conference rooms and presentations	**01**
2.	Projection Technology	3-Chip LCD / 3LCD technology with separate RGB imaging panels	
3.	Light Source	Laser diode / solid-state laser light source; lamp-based projector shall not be acceptable	
4.	Brightness	Minimum 4,000 ANSI Lumens	
5.	Brightness Measurement	Brightness shall be stated in ANSI lumens and supported by the manufacturer's official datasheet	
6.	Native Resolution	WUXGA – 1920 × 1200 pixels	
7.	Aspect Ratio	Native 16:10, with support for common 16:9 and 4:3 input formats	

8.	Display Panels	3 × LCD panels, preferably approximately 0.64-inch class or higher, with minimum 2.3 million native pixels	
9.	Contrast Ratio	Minimum 3,000,000:1 dynamic contrast ratio or better	
10.	Color Reproduction	High-quality full-color reproduction suitable for text, engineering diagrams, presentations, videos and multimedia content	
11.	Light Source Life	Minimum 20,000 hours in Normal/Standard mode and preferably 24,000 hours or more in Eco mode	
12.	Uniformity	Minimum 80% brightness uniformity, or manufacturer's equivalent professional-grade specification	
13.	Lens	High-quality optical lens with manual or powered focus and minimum 1.6× optical zoom or equivalent installation flexibility	
14.	Throw Ratio	Approximately 1.1–1.8:1 or better, allowing flexible installation in classrooms and lecture rooms	
15.	Lens Shift	Vertical and horizontal lens-shift capability preferred; minimum approximately ±40% vertical and ±15% horizontal, or equivalent	
16.	Screen Size	Capable of projecting approximately 50-inch to 100-inch or larger images; preferably supporting up to 300-inch class where installation permits	
17.	HDMI Input	Minimum 2 × HDMI inputs, supporting Full HD/WUXGA signals and HDCP	
18.	Audio Input	stereo audio inputs or equivalent	
19.	Audio Output	Minimum 1 × audio output	
20.	Network	Built-in RJ-45 LAN port for network-based monitoring and control.	
21.	USB	Minimum 1 × USB Type-A for supported media/viewer/wireless functions	
22.	4K Input Support	Preferably capable of accepting 4K input signals and scaling them to native WUXGA, where supported by the proposed model	
23.	Image Adjustment	Automatic/manual image adjustment, colour adjustment, brightness/contrast adjustment, aspect-ratio selection and picture modes	
24.	Screen Correction	Advanced geometric correction such as horizontal/vertical keystone and preferably multi-point/corner correction	
25.	Focus	Manual or powered optical focus with precise image adjustment	
26.	Built-in Speaker	Build-in Speakers are preferable	
27.	Remote Control	Original manufacturer-supplied wireless remote control with batteries	
28.	Noise Level	Preferably ≤30 dB in Eco/Quiet mode and suitable for classroom/meeting-room operation	
29.	Power Saving	Eco/Quiet operating modes and automatic power-saving/standby features	
30.	Accessories	Original power cable, remote control, batteries, required cables, user's manual and all standard accessories required for normal operation	
31.	Warranty	Minimum 3 years comprehensive manufacturer's warranty for projector; minimum 3 years or manufacturer's standard laser/light-source warranty, whichever is higher	
32.	Product Condition	Brand-new, factory-sealed, unused and current production model	
33.	OEM Verification	Bahria University reserves the right to verify model, serial number, configuration, warranty status and authenticity directly through the manufacturer/OEM or authorized channel	

9. Furniture for AI Lab

S./No	Item Description & Technical Specification	Quantity
1	Curved Collaborative Workstation Desk / Pods	**10 NOS**

	• **Size:** overall desk size 7.2'x2'x30" custom molded curved 13" for left side & right side 4" straight Top size 72"x24" CPU hanging place & cover lockable in iron frame hanging in front side with 6 covered ventilation spaces size 10"x86.4". • **Metal structure:** Made of M/S square pipe 1.5" thickness 38.1mmx14SWG with white powder coating 99.999% powder and plastic Glide, MIG Spot Welded, Grinned Flush **Wooden Structure:** Laminated Board MDF Pure White W#N Melamine Faced MDF PK-1001-Brilliant white thickness 66.1mm with HPL 1.0mm + 1.5mm PVC Lipping (Rehau Machine)	
2	Lab Interior Finishing • **12mm Glass Work:** Behind Glass Best Quality Printable Paper (720 DPI Eco-Solvent) one vision paper 535sqft with doors • **Wall & Pillars:** wall design in paint & lamination sheets with Dodecahedron shape in 2 colors with PVC lipping • **Window Blinds:** Back wall 2 Wooden Blinds Bring natural warmth, rich grain patterns, and a timeless, organic look to living rooms and studies • **White Board:** Front wall design & adjust fit white board in design 180sqft **Tile Carpet:** size 705sqft double shade carpet tile with Aluminium strips with installation	
3	Lab Chair • **Standard Mesh & Fabric:** Features a breathable, horizontal linear black mesh backrest paired with a soft-touch black fabric foam-padded seat. • **Antimicrobial Vinyl:** Designed primarily for healthcare environments, featuring a full antimicrobial vinyl seat and backrest that resists bacteria, mold, and mildew for easy sanitation. • **Adjustable Flip-Up Arms:** The armrests can be flipped upright out of the way to allow closer proximity to desks or easier entry/exit. • **Tilt Mechanism:** Equipped with a spring-tilt mechanism, upright locking position, and an adjustable knob to customize tilt tension. • **Height Adjustment:** Uses a pneumatic gas lift to adjust the seat height • **Weight Capacity:** Supports up to **275 lbs.** **Dimensions:** Measures approximately 24.5" Wide x 25.5" Deep, with an overall height range of 38" to 41"	**31**

Mandatory Requirements for the Vendors:

EXPERIENCE:

The bidder should have relevant experience in supply of branded IT equipment.

The bidder shall provide details of at least **three (03) relevant supplies completed during the last five (05) years**, preferably involving:

- Universities;
- Government/semi-government organizations;
- Banks;
- Large private organizations;
- Educational institutions;

- Corporate/enterprise customers;
- Other organizations with comparable IT infrastructure.

WARRANTY SERVICE

During the warranty period:

1. Defective equipment shall be repaired/replaced without additional cost.
2. Defective components shall be replaced with genuine compatible components.
3. The supplier shall bear transportation and related costs.
4. Warranty service shall not void the manufacturer's warranty.
5. Replacement equipment shall be new and genuine.
6. Any replaced component shall carry the remaining applicable warranty period.

INSPECTION UPON DELIVERY

Delivery shall not automatically constitute acceptance.
Bahria University authorized Inspection/Acceptance Committee may verify all the equipment received including performance of all parts.

CONFIDENTIALITY

The supplier shall maintain confidentiality regarding any institutional information, configurations, network information or other information obtained during delivery, installation or warranty support.
The supplier shall not disclose institutional information to any third party without written authorization.

ACCEPTANCE

Final acceptance shall be issued only after satisfactory:

- Physical inspection;
- Configuration verification;
- Functional testing;
- Documentation verification;
- Warranty verification;
- Serial-number verification;
- Resolution of identified deficiencies.

PRE-BIT MEETING WITH VENDORS

Bahria University may conduct the meeting physically, online, or through any other officially notified mechanism.
All prospective bidders/vendors who intend to participate in the tender are encouraged to attend the Pre-Bid Meeting. containing the detailed specifications of desktop computers for faculty members, you are kindly requested to review the specifications and provide your go ahead to proceed with the CFA process and subsequent initiation of the tendering process.

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS