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Section 1. Letter of Invitation



THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR Procurement Cell

NOTICE INVITING TENDERS

Sealed bids (NCB: single stage - two envelope procedure) are invited from reputed firms/suppliers registered with relevant tax authorities (FBR, SRB) for the following procurements.

| SNO | Description | Tender # | Tender Fee |
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| 01 | Supply, Installation & Commissioning of interactive Smart Class Room Solution. | TSAUS-PROC-2021-002/ | PKR 3000/- (Nonrefundable) as Pay order/Demand Draft |

Detailed specification of Products, and all other Contract terms and conditions are specified in a bidding document, that can be physically obtained by submission of Pay Order /DD as tender fee in the favor of "The Shaikh Ayaz University" from the office of Secretary Procurement Committee, Shaikh Ayaz University and, is also available on University Website (www.saus.edu.pk) as well as on the website of Sindh Public Procurement Regulatory Authority (www.ppms.pprasinhd.gov.pk).

Tender fee and sealed bids along with 2% of earnest money on the total bid cost should reach on or before **11:00 AM on December 28, 2021**. The proposals will be opened in the presence of available bidders/ their representatives at **11:30 AM** on the same day. Procuring agency may reject any bid subject to relevant provision of SPPRA rule 2010 and may cancel the bidding process at any time prior to acceptance of bid or proposal as per rule – 25 (1) of said rules.

If no any bid will receive till the deadline cited above, the same advertisement will be valid for more 15 calendar days and bids will be accepted till **January 12, 2022 11:00AM** and will be opened at **11:30AM** on the same day.

Secretary Procurement Committee, Shaikh Ayaz University Phone# 0726-920367 email: asadullahbhatti87@gmail.com

Section 2. Instruction to Bidders (ITB)

| A. GENERAL TERMS | |
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| 1. Introduction | <p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by The Shaikh Ayaz University, Shikarpur (SAUS). This ITB will be governed under Clause 46(2) of Sindh Public Procurement Regulatory Authority Rules, 2010, as amended from time to time and instructions of the Government of Sindh received during the completion of the project.</p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by The Shaikh Ayaz University, Shikarpur. The Institute is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 The Shaikh Ayaz University, Shikarpur (SAUS) reserves the right to cancel the procurement process at any stage without any liability of any kind for SAUS, upon notice to the bidders or publication of cancellation notice on SAUS website.</p> |
| 2. Fraud & Corruption, Gifts and Hospitality | <p>2.1 SAUS strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of SAUS vendors and requires all bidders/ vendors observe the highest standard of ethics during the procurement process and contract implementation.</p> <p>2.2 Bidders/ vendors shall not offer gifts or hospitality of any kind to SAUS staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, The Shaikh Ayaz University, Shikarpur:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing The Shaikh Ayaz University Shikarpur contract; or counseling or canvassing staff or elected representatives; or engaging in collusion with other bidders.</p> |
| 3. Eligibility | <p>3.1 A Bidder should not be suspended, debarred, or otherwise identified as ineligible by any Government/ Semi-government/ or any other international Organization. Bidders are therefore required to disclose to SAUS whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, sub-contractors, service providers, suppliers and/ or their employees meet the eligibility requirements as established by The Shaikh Ayaz University, Shikarpur.</p> |
| 4. General Terms | <p>4.1 The Bidder should be registered with SRB, FBR and SECP.</p> <p>4.2 An affidavit on legal stamp paper worth Rs.100/- to the effect that the Bidder has not been blacklisted by any Government/ semi-Government organization.</p> <p>4.3 An affidavit that there is no litigation against the firm.</p> |

B. PREPARATION OF BIDS

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| 5. General Considerations | 5.1 In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid. 5.2 The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the Secretary Procurement Committee, The Shaikh Ayaz University, Shikarpur (SAUS) accordingly. |
| 6. Cost of Preparation of Bid | 6.1 The Bidder shall bear all costs related to the preparation and/ or submission of the Bid, regardless of whether its Bid is selected or not. SAUS shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process. |
| 7. Language | 7.1 The Bid, as well as any, and all related correspondence exchanged by the Bidder and SAUS, shall be written in the language(s) specified in the BDS. |
| 8. Documents Comprising the Bid | 8.1 The Bid shall comprise of the following documents and related forms of which details are provided in the BDS. All pages of the Bid shall be signed, stamped and properly paginated. a) Returnable Forms as referred in Section 6 shall be properly filled in Ink or Typed. Forms filled in using a pencil shall not be considered and substantiate the annulment of the Bid Proposal. b) Documents Establishing the Eligibility and Qualifications of the Bidder; c) Technical Proposal covering Technical Specifications and Solution Details. d) Financial Proposal covering Price Schedule. e) Bid Security, if required by BDS; f) Any attachments and/ or appendices to the Bid. |
| 9. Documents Establishing the Eligibility and Qualifications | 9.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified supplier, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to SAUS's satisfaction. |
| 10. Technical Bid Format and Content | 10.1 The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB. 10.2 Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the Institute. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified. 10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training program available for the maintenance and operation of the equipment offered as well as the cost to the Institute. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS. 10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least three (3) years from date of delivery, or as otherwise specified in this ITB. |
| 11. Price Schedule | 11.1 The Price Schedule shall be prepared using the Forms provided in Section 6 of the ITB and taking into consideration the requirements in the ITB. 11.2 Any requirement described in this ITB but not priced in the Price Schedule, shall be assumed to have been included in the prices of other activities or items, as well as in the final total price. |

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| 12. Bid Security | <p>12.1 A Bid Security shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for the duration as referred in BDS.</p> <p>12.2 The Bid Security shall be included along with the Bid. If Bid Security not found in the Bid, the Bid shall be rejected.</p> <p>12.3 If the Bid Security amount or its validity period is found to be less than what is required, SAUS shall reject the Bid.</p> |
| | <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security will be forfeited by SAUS, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> a) If the Bidder withdraws its offer during the period of the Bid Validity specified in b) the BDS, or; c) In the event the successful Bidder fails: <ul style="list-style-type: none"> i. to sign the Contract after SAUS has issued an award; or ii. to furnish the Performance Security, insurances, or other documents that SAUS may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder. |
| 13. Currencies | <p>13.1 All prices shall be quoted in the currency indicated in the BDS. Where prices are quoted in different currencies, for the purposes of comparison:</p> <ul style="list-style-type: none"> a) SAUS will convert the currency quoted into the currency indicated in BDS, in accordance with the prevailing Inter Bank rate of exchange on the last day of submission of Bids; and b) In the event that SAUS selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, SAUS shall reserve the right to award the contract in the currency of SAUS's preference, using the conversion method specified above. |
| 14. Joint Venture, Consortium or Association | <p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by an intent letter or an Agreement among the legal entities duly notarized, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between SAUS and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association Or any change in the constitution of the JV, Consortium or Association shall not be altered without the prior written consent of SAUS/ Procurement Committee.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 15 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium</p> |

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| | <p>or Association Agreement or Intent Letter. All entities that comprise the JV, Consortium or Association shall be cumulatively subject to the eligibility and technical qualification assessment by The Shaikh Ayaz University, Shikarpur as defined in Section 4: Evaluation Criteria.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <ul style="list-style-type: none"> a) Those that were undertaken together by the JV, Consortium or Association; and b) Those that were undertaken by the individual entities of the JV, Consortium or Association. <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials.</p> |
| <p>15. Only One Bid</p> | <p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this ITB; or d) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid. |
| <p>16. Bid Validity Period</p> | <p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by SAUS and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel.</p> |
| <p>17. Extension of Bid Validity Period</p> | <p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, SAUS may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p> |

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| 18. Clarification on ITB (from the Bidders) | <p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a SAUS The Shaikh Ayaz University, Shikarpur staff member, SAUS shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 SAUS will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 SAUS shall endeavor to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of SAUS to extend the submission date of the Bids, unless SAUS deems that such an extension is justified and necessary.</p> |
| 19. Amendment in ITB | <p>19.1 At any time prior to the deadline of Bid submission, SAUS may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, SAUS may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p> |
| 20. Alternative Bids | <p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, SAUS reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/ alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p> |
| 21. Pre-Bid Conference | <p>21.1 When appropriate, a pre-bid conference may be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Nonattendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/ posted as an amendment to ITB.</p> |

C. SUBMISSION AND OPENING OF BIDS

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| 22. Bid Proposal Submission | <p>22.1 The Bidder shall submit a duly signed and numbered all pages of the complete Bid in an Envelope sealed and marked as per ITB 22.6, and in accordance with SPPRA Rule 46(2).</p> <p>22.2 The Outer Envelope should contain Two (02) separate sealed envelopes, one of which comprising the Forms (A – F) and supporting documents in accordance with requirements in the BDS, shall be marked as "Technical Proposal". Whereas, the other envelope containing the Form G: Price Schedule Form shall be marked as "Financial Proposal".</p> <p>22.3 The Bid Security as referred in BDS must be placed in the "Technical Proposal" but in a duly sealed envelope and marked as "Bid Security". Bid security envelop will be opened with financial proposal.</p> <p>22.4 Bid can be delivered either personally, or by courier as specified in the BDS.</p> <p>22.5 The Bid shall be signed by the Bidder or person(s) duly authorized to commit</p> |
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| | <p>the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid. There should not be errors and/ or over-writings. Corrections (if any) should be made clearly and initialed with dates.</p> <p>22.6 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the General Contract Terms and Conditions.</p> <p>22.7 Hard copy submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Bid Proposals must be sealed and submitted in an envelope, which shall:</p> <ol style="list-style-type: none"> i. Bear the name of the Bidder; ii. Be addressed to SAUS as specified in the BDS; and iii. Bear a warning not to open before the time and date for Bid opening as specified in the BDS. <p>If the envelope with the Bid is not sealed and marked as required, SAUS shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p> |
| <p>23. Deadline for Submission of Bids and Late Bids</p> | <p>23.1 Complete Bids must be received by SAUS in the manner, and no later than the date and time, specified in the BDS. SAUS shall only recognize the actual date and time that the bid was received by SAUS.</p> <p>23.2 SAUS shall not consider any Bid that is received after the deadline for the submission of Bids.</p> |
| <p>24. Withdrawal, Substitution, and Modification of Bids</p> | <p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 A bidder may withdraw, substitute or modify its Bid by sending a written notice to SAUS, duly signed by an authorized representative, including a Power of Attorney. The corresponding substitution or modification of the Bid, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 Bids requested to be withdrawn shall be returned unopened to the Bidders, except if the bid is withdrawn after the bid has been opened.</p> |
| <p>25. Bid Opening</p> | <p>25.1 The Procurement Committee of SAUS will open the Bid in the presence of Bidders' representative(s) who choose to attend.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/ seals, the number of folders/ files and all other such other details as SAUS may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In case of public holiday on bid opening day, bids will be opened on next working day.</p> |

D. EVALUATION OF BIDS

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| 26. Confidentiality | <p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder to influence SAUS in the examination, evaluation and comparison of the Bids or contract award decisions may, at SAUS's decision, result in the rejection of its Bid and may subsequently be subject to consequences.</p> |
| 27. Preliminary Examination | 27.1 SAUS shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. SAUS reserves the right to reject any Bid at this stage. |
| 28. Evaluation of Eligibility and Technical Qualification | <p>28.1 Eligibility and Technical Qualification of the Bidder will be evaluated against the Minimum Eligibility/ Qualification requirements specified in the Section 4: Evaluation Criteria.</p> <p>28.2 In general terms, Bidders that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> a) They are not included in the list of blacklisted or barred companies published on SPPRA website, any federal or Provincial government department; b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments, c) They have the necessary experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/ or services required; d) They are able to comply fully with the General Terms and Conditions of Contract; e) They do not have a consistent history of court/ arbitral award decisions against the Bidder; and f) They have a record of timely and satisfactory performance with their clients. |
| 29. Evaluation of Bid Proposals | 29.1 The evaluation team shall review and evaluate the Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, SAUS may invite technically responsive bidders for a presentation related to their Bids. The conditions for the presentation shall be provided in the bid document where required. |
| 30. Due diligence | <p>30.1 SAUS reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> a) Verification of accuracy, correctness and authenticity of information provided by the Bidder; b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team; c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder; d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of |

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| | <p>previous works, as deemed necessary;</p> <p>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</p> <p>f) Other means that SAUS may deem appropriate, at any stage within the selection process, prior to declaring the Bidder as Qualified.</p> |
| 31. Clarification of Bids | <p>31.1 To assist in the examination, evaluation and comparison of Bids, SAUS, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>31.2 SAUS's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by SAUS in the evaluation of the Bids in accordance with the ITB.</p> <p>31.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by SAUS, may not be considered during the review and evaluation of the Bids.</p> |
| 32. Responsiveness of Bid | <p>32.1 SAUS's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>32.2 If a bid is not substantially responsive, it shall be rejected by SAUS and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p> |
| 33. Right to Accept, Reject, Any or All Bids | <p>33.1 The Shaikh Ayaz University, Shikarpur reserves the right to accept or reject any proposal in response to the ITB, to render any or all of the proposals as non-responsive, and to reject all Proposals in response to the ITB at any time prior to award of contract, while assigning the reason(s) thereof.</p> <p>33.2 The Shaikh Ayaz University, Shikarpur shall not be obliged to award the contract to the lowest priced offer.</p> |
| 34. Nonconformities, Reparable Errors and Omissions | <p>34.1 Provided that a Bid is substantially responsive, SAUS may waive any nonconformities or omissions in the Bid that, in the opinion of SAUS, do not constitute a material deviation.</p> <p>34.2 SAUS may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify non-material nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the Price Schedule that are submitted, SAUS shall check and correct arithmetical errors as follows:</p> <p>a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of SAUS there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected;</p> <p>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an</p> |

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| | <p>arithmetic error, in which case the amount in figures shall prevail.</p> <p>34.4 If the Bidder does not accept the correction of errors made by SAUS, its Bid shall be rejected.</p> |
| 35. Bidder Grievance | 35.1 SAUS's grievance redress procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the Bidder may lodge a complaint to the SAUS's Complaint/Grievance Redress Committee. |
| E. AWARD OF CONTRACT | |
| 36. Evaluation | <p>36.1 SAUS will conduct the evaluation solely on the basis of response to this tender received from the firms.</p> <p>36.2 Evaluation shall be undertaken in the following steps:</p> <ol style="list-style-type: none"> a) Preliminary Examination including Technical Specifications and other compliances b) Arithmetical check and ranking of bidders who passed preliminary examination by price. c) Evaluation of prices <p>36.3 Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable)</p> |
| 37. Integrity Pact | 37.1 Bidders will also be required to submit a signed Integrity Pact on a stamp paper of appropriate value as part of their response. The text of Integrity Pact is available at Annex – I. |
| 38. Award Criteria | <p>38.1 Prior to expiration of the period of Proposal validity, SAUS shall award the contract to the Bidder that is found to be responsive to the requirements of the Technical Specifications and has offered the lowest price.</p> <p>38.2 SAUS shall not be obliged to award the contract to the lowest priced offer, if the response is found deficient to the Technical Specifications and other compliances.</p> <p>38.3 In case of tie in Financial Bid Value, the Contract will be awarded to the bidder having secured higher Score in Technical Evaluation.</p> |
| 39. Contract Signing | <p>39.1 After the approval of any Work Award, a Contract Agreement on the stamp paper of appropriate value, shall be executed by SAUS with Selected Bidder (i.e. Contractor) within 15 days from the date of issuance of Lol (Letter of Intent)/ Work Order.</p> <p>39.2 Failure to signing of Contract Agreement by the selected Bidder Firm with SAUS within the stipulated time may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, SAUS may award the Contract to the Second highest rated or call for new Proposals.</p> |
| 40. Right to Vary quantity at the Time of Award | 40.1 At the time of award of Contract, SAUS reserves the right to vary the quantity of goods and/ or services, without any change in the unit price or other terms and conditions. |

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| 42. Performance Security | 42.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS, well prior to the Contract signing by both parties. Where a performance security is required, the receipt of the performance security by SAUS shall be a condition for rendering the contract effective. |
| 43. Bank Guarantee for Advanced Payment | 43.1 No Payment will be released in advance. |
| 44. Liquidated Damages | <p>44.1 SAUS shall apply Liquidated Damages for the damages and/ or risks caused to SAUS resulting from the Contractor's delays or breach of its obligations as per Contract.</p> <p>a) In case of delay the Procurement Committee, SAUS reserves the right to impose a penalty not exceeding 10% of the total amount of the Contract Value at the rate as referred in the Sample Contract at Annexure –II.</p> <p>b) If the Contractor fails to complete work as per SAUS requirement, the Vice Chancellor, The Shaikh Ayaz University, Shikarpur reserves the right to reject it altogether or impose a penalty not exceeding 50% of the total amount of the Contract.</p> <p>c) If the Contractor fails to provide supplies/ services as per SAUS requirements, SAUS may forfeit his earnest money as well as Performance Security, and the work will be done at the risk and cost of Bidder.</p> <p>d) In case of any dispute, matter will be referred to Vice Chancellor, The Shaikh Ayaz University, Shikarpur whose decision will be binding on both the parties.</p> |
| 45. Force Majeure | 45.1 "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 Purchase Order/ Work Order/ Contract impossible or so impractical as to be considered impossible under the circumstances, and includes, but is not limited to, War, Riots, Storm, Flood or other industrial actions (except where such strikes, lockouts or other industrial issues are within the power of the party invoking Force Majeure), confiscation or any other action by Government agencies. In all disputes between the parties as to matters arising pursuant to this Purchase Order/ Work Order/ Contract, the dispute will be referred to Project Director, SAUS whose decision will be final. |
| 46. Delivery of Goods | 46.1 Contractor will be required to deliver the goods as per the Delivery Schedule referred in BDS without claiming any additional cost to the SAUS at the designated site(s) and in quantities as referred in the Contract. |
| 47. Payment Provisions | <p>47.1 Payment pertaining to the equipment may be made through LC (Letter of Credit) which will be opened in favor of Principal/ Distributor/ Manufacturer by SAUS within 30 Days after Signing the Contract. However, payment(s) will be made only upon SAUS's acceptance of the goods and/ or services performed. In case the payment against the equipment is made through LC, the payment(s) pertaining to local services (i.e. importation and custom clearance, delivery at site, installation, configuration and commissioning) will be made through cross cheque in favor of the selected bidder. The terms of payment through LC will be at-sight, whereas payment against local services shall be within thirty (30) days, after receipt of invoice. Payment will be affected by bank transfer in the currency of the contract.</p> <p>47.2 The Contractor shall provide all necessary supporting documents along with claim/ invoice, delivery challan and any other relevant documents as required by the SAUS.</p> |

Section 3. Bid Data Sheet

The following data for the goods and/ or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid. In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

| BDS No. | Ref. to Section.2 | Data | Specific Instructions / Requirements |
|---------|-------------------|---------------------------|--|
| 1. | | Background of the Project | The Shaikh Ayaz University stands for discovery of new knowledge and dissemination and curation of the same through its academia for progressive growth of society, individually, intellectually, aesthetically and humanely, able to decide, dialogue and act with enlightenment, and capable to use it for the common good and peace, prosperity, safety, humanely values, unity in cultural diversity, art, heritage, technology, invention, innovation, personal well-being and all areas of knowledge and activity to sustain and offer better version of life based on best knowledge for themselves and the coming generations. |
| 2. | | Objective | The main objective is to establish a model smart classroom. The desired solution is conceived by considering the challenges available inside our traditional classroom of traditional education system. This desired smart classroom must have the capability of scalability and It can be utilized in multi-facet usage as per the different layers of smart classroom i.e. <ol style="list-style-type: none"> 1. Active Smart Classroom (Teacher Centric) 2. Blended Learning Smart Classroom 3. Interactive Smart Classroom |
| 3. | | Scope of Work | <p>Supply and Installation/ Deployment of Smart Classroom Solution</p> <p>The required items in various as referred in Section – 5 have been sought by SAUS from a reputed Firms/ Companies. The supplier is expected to supply high quality products meeting the specification as stipulated in this ITB, which conforms to the international quality standards. The time specified for delivery, Installation and Commissioning in the tender form shall be deemed to be the essence of the contract and the Successful Bidder shall arrange within the specified period.</p> <p>Post-Commissioning Warranty and Support Services</p> <p>It is required that Manufacturer’s Warranty for at least One (01) year from the date of commissioning to SAUS be provided by the Supplier within the quoted cost of items.</p> <p>Moreover, additional Warranty for next Three (03) years should be quoted separately in USD by the Bidder on annual payment basis. However, it will be at sole discretion of SAUS to avail additional Warranty in subsequent year(s) or otherwise.</p> |
| 4. | 7 | Language of the Bid | English |

| | | | |
|-----|----------------|--|--|
| 5. | 22, 23, 27 | Submitting Bids for Parts or subparts of the Schedule of Requirements (partial bids) | The Purchase Committee shall consider the Bids as referred in Section – 5. Any item not quoted shall have reasonable grounds to reject the Bid |
| 6. | 20 | Alternative Bids | Not Allowed. |
| 7. | 16 | Bid Validity Period | 90 days |
| 8. | 13 | Bid Security/ Earnest Money (Refundable) | <u>Required in the amount of: 2% of the Bid Value.</u> In case of options, earnest money shall be based on the maximum quoted price of the same items. <u>Acceptable Forms of Bid Security:</u> Denominated in Pak Rupees duly issued by a Pakistani Bank or branch of a Foreign Bank, in the form of Demand Draft/ Pay Order in favor of the Vice Chancellor, The Shaikh Ayaz University, Shikarpur |
| 9. | 42 | Liquidated Damages | Will be imposed as follows: Percentage of contract price per day of delay up to a maximum of 10%. |
| 10. | 40 | Performance Security | Within stipulated time after issuance of Purchase Order and prior to the signing of Contract, as 5% of the Contract value for the duration of Warranty period referred in RFP. |
| 11. | 12 | Currency of Bid | Pakistani Rupees (PKR) |
| 12. | 31 | Deadline for submitting requests for clarifications/ questions | 5 days before the submission deadline |
| 13. | 31 | Contact Details for submitting clarifications/ questions | Secretary Procurement Mr. Asadullah Bhatti Ph #: 0726-920367, Cell# 0334-2912991 Fax #: 0726-512054 Email: asadullahbhatti87@gmail.com |
| 14. | 18, 19, and 21 | Manner of Disseminating Supplemental Information to the ITB and responses/ clarifications to queries | Direct communication to prospective Bidders by email and/ or Posting on the Shaikh Ayaz University website: http://saus.edu.pk/ |
| 15. | 23 | Deadline for Submission | Tuesday the December 28, 2021 on or before 11:00 AM (PST) |
| 16. | 22 | Number of Set(s) of Bid | Technical Proposal(s) - One (01) Original - One (01) Copies - Soft copy of Technical Proposal in a USB Flash Drive Financial Proposal(s) - One (01) Original |

| 17. | 22 | Allowable Manner of Submitting Bids | <input checked="" type="checkbox"/> Courier/ Hand Delivery | | | | | | | | |
|-----|---------------|--|--|--|----------|--------------|---------------|--|---------------|---------|--------|
| 18. | 22 | Bid Submission Address | <input checked="" type="checkbox"/> By Courier/ Hand Delivery: Office of Secretary Procurement (Smart Class Room Project) The Shaikh Ayaz University Shikarpur, Pakistan Tel. 0726-920367, Cell# 0334-2912991 | | | | | | | | |
| 19. | 22 | Electronic submission (email) requirements | Not Allowed | | | | | | | | |
| 20. | 25 | Date, time and venue for the opening of bid | Date and Time: Tuesday the December 28, 2021 at 11:30 AM Venue: The Boardroom of University | | | | | | | | |
| 21. | 27, 36 | Evaluation Method | Eligible and qualified bids meeting the SAUS requirements and technical responsive as stipulated in this ITB | | | | | | | | |
| 22. | | Evaluation Method for the Award of Contract | Lowest priced technically responsive. | | | | | | | | |
| 23. | | Expected date for commencement of Contract | January 2021 | | | | | | | | |
| 24. | | Maximum expected duration of Contract | 18 months | | | | | | | | |
| 25. | 35 | Shaikh Ayaz University will award the contract to: | One Bidder Only | | | | | | | | |
| 26. | 39 | Type and Contract Terms and Conditions that will apply | Shaikh Ayaz University General Terms and Conditions for Contracts for Goods and/ or Services. | | | | | | | | |
| 27. | 46 | Delivery, Installation and Commissioning | <table border="1"> <thead> <tr> <th></th> <th>Delivery</th> <th>Installation</th> <th>Commissioning</th> </tr> </thead> <tbody> <tr> <td></td> <td>10 – 12 weeks</td> <td>4 weeks</td> <td>2 week</td> </tr> </tbody> </table> | | Delivery | Installation | Commissioning | | 10 – 12 weeks | 4 weeks | 2 week |
| | Delivery | Installation | Commissioning | | | | | | | | |
| | 10 – 12 weeks | 4 weeks | 2 week | | | | | | | | |

Section 4. Evaluation Criteria

Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/ No basis:

- Appropriate signatures
- Minimum Bid documents provided
- Bid Validity
- Bid Security submitted as per ITB requirements with compliant validity period

Minimum Eligibility and Technical Qualification Criteria

Eligibility will be evaluated on a Pass/ Fail basis. If the Bid is submitted as a Joint Venture, there should be no more than two (02) companies in the Joint Venture and each company should meet the minimum criteria, unless otherwise specified.

Technical qualification will be evaluated on Score basis. Bidder will require to secure at least **70 percent** to qualify. Scores against each of the parameters in Section I, II & III will be according to documents provided by the Bidder, whereas scores in Section IV will be awarded by Technical Committee in response to Bidder's presentation.

| ELIGIBILITY | | | |
|-------------|---|--|---|
| S. # | Subject | Criteria | Reference Returnable Form(s) |
| 1. | Bidder's Status | Participating as <input type="checkbox"/> Individual Company <input type="checkbox"/> JV/ Consortium | Form B: JV/ Consortium Information Form |
| 2. | Legal Status | Bidder is a legally registered entity in Pakistan. Bidder (Lead Bidder) is/ are also registered with SRB and FBR for Income Tax. Bidder/ JV partner(s) must be Active Taxpayers and Listed. | Form C: Bidder Information Form |
| 3. | Location of Offices | Bidder (Lead Bidder) has declared office in Karachi/ Sukkur/ Lahore/ Islamabad for at least last Three (03) years. | Form C: Bidder Information Form |
| 4. | Quoted Product Strength and Rating | Quoted product should have large implementation footprints. | Form C: Bidder Information Form |
| 5. | Company in Operation | Bidder (Lead Bidder) is in operation for at least Three (03) years. | Form C: Bidder Information Form |
| 6. | Financial Strength | Average annual turnover over last 3 years Rs. 3 million or equivalent in USD from IT Services or Consultancy as per the published Audited Report. <i>(For JV/ Consortium/ Association, all Parties cumulatively should meet requirement).</i> | Form D: Qualification Form |

| | | | |
|-----|---|--|---|
| 7. | Relevant Experience | Min. No. of Projects successfully Completed or In-hand, of similar nature/ value/ complexity in last 3 years. At least Two (02) projects involving IT Services or Consultancy within Pakistan or internationally <i>(For JV/Consortium/ Association, all Parties cumulatively should meet requirement).</i> | Form D: Qualification Form Form E: Technical Proposal Form |
| 8. | Eligibility | Bidder(s) is not suspended, nor debarred, nor otherwise identified as ineligible by any Government/ Semi-government/ Autonomous organization in Pakistan, in accordance with ITB clause 3. Non-Blacklisting certificate must be provided. | Form A: Bid Submission Form |
| 9. | Bankruptcy | Bidder(s) has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future. | Form A: Bid Submission Form |
| 10. | Technical Specification Compliance | Quoted Solution should have Full Compliance towards required features and functionalities as referred in Section 5. | Form F: Specifications Compliance Form |
| 11. | Certificate and Licenses | Bidder(s) related: i. Certificate of Registration of the business ii. Certificate of Registration with SRB and FBR iii. Principal's/ Manufacturer's authorization letter. iv. Implementation Letters or Emails or Purchase/ Work Order(s)/ Agreement from the institutions/ organizations where the IT Services or Consultancy, was or being provided. v. Supporting photos/ snapshots, data sheets, documents depicting usage scenarios of the quoted solution. | Form C: Bidder Information Form |

QUALIFICATION

| S. # | Attribute | Description | Max. Score | Criteria | Returnable Form(s) |
|---|------------------------------------|---|------------|--|---------------------------------|
| Section – I: General Corporate Profile | | | 15 | | |
| 12. | Bidder's in Business | Number of years in providing IT Services or Consultancy | 8 | Min. required + 5 year | Form C: Bidder Information Form |
| | | | 6 | Min. required + 3 year | |
| | | | 4 | Min. required + 1 year | |
| 13. | Financial Standing | Annual Turnover averaged over last 3 years | 7 | 2+ x Financial Strength | Form D: Qualification Form |
| | | | 4 | 2 x Financial Strength | |
| | | | 2 | 1.5 x Financial Strength | |
| Section – II: Business Profile | | | 15 | | |
| 14. | Relevant Experience | Project(s) of IT Services or IT Consultancy completed or in-hand (documentary proof required) | 10 | Min. No. of Projects + 7 | Form D: Qualification Form |
| | | | 8 | Min. No. of Projects + 4 | |
| | | | 6 | Min. No. of Projects + 2 | |
| 15. | Education Sector Experience | Project(s) delivered to education institutions (documentary proof required) | 5 | 1 point for each project successfully delivered up to Max. Score | Form D: Qualification Form |
| Section – III: Product Acceptance and Strength(s) in local context | | | 20 | | |

| | | | | | |
|---|--|---|------------|---|-------------------------------|
| 16. | Product's Presence in Pakistan | Quoted product is already implemented in higher education sector in Pakistan | 10 | Installed in any of the higher education institute in Pakistan | Form E: Project Proposal Form |
| 18. | Compliance to Technical & Functional Specifications | Specifications and functionalities offered of same product corresponding to Technical & Functional requirements as stipulated in Section 5. | 10 | No. of functionalities complied by Bid in consideration/ Total No. of functionalities listed * Max. Score | Form F: Project Proposal Form |
| Section – IV: Presentation/Demo on Quoted Solution | | | 50 | | |
| 19. | Project Understanding | Demonstration of approach to understand and complete the project | 20 | To be assigned by the Technical Committee | Form E: Project Proposal Form |
| 20. | Project Management Approach | Approach towards planning and implementing the project. | 20 | To be assigned by the Technical Committee | Form E: Project Proposal Form |
| 21. | Salient and Value-Added Features | Key features of the quoted solution and value addition which can be brought in by the bidder or Principal. | 10 | To be assigned by the Technical Committee | Form E: Project Proposal Form |
| Grand Total | | | 100 | | |
| | Technical Evaluation | Bids shall be evaluated on both Eligibility and Technical Qualification Criteria. Bidders meeting the Eligibility Criteria and able to secure 70 percent in Technical qualification shall be declared as Technically Qualified Bidders for the next step, i.e. Opening of Financial Bid. | | | |
| | Financial Evaluation | Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F. Price comparison shall be based on the total cost of ownership over 3 years, including solution installation and configuration cost, trainings, and extended warranty costs. Comparison with budget/ internal estimates. Tender will be awarded to "most advantageous bid". | | | |

Section 5a: Technical Specifications of the Required Goods

| Item No. 01: Interactive Digital Recording Host with H.323 capability | |
|--|--|
| Quantity: 01 | |
| IP Video Input | |
| IP Camera Input | 4 channel |
| Compression | H.265 / H.264 |
| Resolution | 1080p |
| Frame Rate | 30fps |
| Recording | |
| Compression | H.265 / H.264 |
| Resolution | 1080p |
| Frame Rate | 30fps |
| Bitrate | 128 ~ 8192Kbps |
| Streaming | Flash/ HTML5 |
| Continuous Presence | Cinema mode, PiP, VIP1+2, VIP1+3, 4 |
| Audio | |
| Compression | G.711a / G.711u / ADPCM / G.722 / AAC-LC |
| Bitrate | 32 ~ 128kbps |
| Functions | AEC, AGC, ANS, AFC |
| Interfaces | |
| Video Input | 2 x DVI-I or more |
| Video Output | 2 x DVI-I or more |
| Audio Input | 6 x Mic in or more |
| | 2 x Line in, Stereo or more |
| Audio Output | 2 x Line out, Stereo or more |
| | S/ PDIF |
| Ethernet | 1 x Gigabit network port, RJ45 interface |
| | 2 x 10/ 100M, RJ45 interface |
| | 4 x 10/ 100M, RJ45 interface (PoE) |
| Internal HDDs | 2 x SATA (1 x 1TB 2.5" HDD) or more |
| Control | 2 x RS485, 8 x RS232 |
| Protocols | |
| Video Conferencing | H.323, H.239, H.460 |
| Environmental | |
| Power | 100 ~ 240V AC, 50 ~ 60Hz |
| Support Required | |
| Recording | Image Composition Auto Directing |
| Item No. 02: EPTZ Camera | |
| Quantity: 01 | |

| Camera | |
|-------------------------|---|
| Image Sensor | 1/1.8" progressive scan CMOS |
| Pixels | 6.0 Megapixel or higher |
| Focal Length | 6 ~ 138mm, 23x optical or higher |
| Aperture Ratio | F1.5 (W) ~ F3.4 (T), DC drive |
| Pan / Tilt Range | Pan: ±5° , Tilt: ±15° , manual |
| Illumination | Color: 0.002lux @ (F1.5, AGC ON) B/W: 0.0002lux @ (F1.5, AGC ON) |
| Shutter Speed | 1 ~ 1/30,000s or better |
| S/N Ratio | ≥ 52dB or better |
| Digital Noise Reduction | 2D, 3D noise reduction |
| Video | |
| Compression | H.265/ H.264 |
| Image Resolution | 1080p or higher |
| Frame Rate | 1 ~ 30fps or better |
| Bitrate | 32kbps ~ 16mbps |
| Multi-stream | Main stream 1: 1080p Main stream 2: 1080p Secondary stream: D1 |
| Image Adjustment | Brightness, Contrast, Saturation, Sharpness |
| Image Flip | Flip / Mirror / Rotation at 90°, 180°, 270° |
| PTZ | ePTZ, Auto tracking |
| Audio | |
| Compression | G.711a / G.711u / ADPCM / G.722 / G.722.1c/ G.726/ AAC-LC |
| Bitrate | 32 ~ 64kbps |
| Audio Function | Bi-directional audio/ AEC/ Mixed audio recording/ Dumb/ Mute |
| Network | |
| Network Protocols | TCP/ IP, UDP, HTTP, DHCP, DNS/DDNS, RTSP, PPPoE, NAT, QoS, UPnP, SMTP |
| System | |
| User Authentication | Multilevel, Password |
| Interfaces | |
| Ethernet | 1 x Gigabit network port, RJ45 interface |
| Audio In / Out | 1 x Line in / 1 x Line out |
| Control | 1 x RS485 |
| Memory Slot | Micro SD card slot, supports 256GB or more |
| Environmental | |
| Power | 12V DC ± 10% / PoE (IEEE802.3at) |
| Support Required | |
| Camera | While Balance Gain Control Electronic Defog Backlight Compensation |
| Video | Privacy Masking Auto Directing HLC Motion Detection |

| | |
|-------------------------------------|--|
| System | Recovery Heartbeat Detection Automatic Network Replenishment (AN) |
| Item No. 03: Audience Camera | |
| Quantity: 01 | |
| Camera | |
| Image Sensor | 1/3" progressive scan CMOS |
| Pixels | 4.0 Megapixel or higher |
| Illumination | Color: 0.05 lux @ (F1.4, AGC ON) B/W: 0 lux with IR |
| Shutter Speed | 1 ~ 1/ 30,000s or better |
| S/N Ratio | >50dB or better |
| Lens | |
| Mount Type | Φ14 |
| Auto Iris | DC drive |
| Focal Length | -Z2812: 2.8~12mm @ F1.4 motorized varifocal lens |
| Focus Control | Manual / Semi-Automatic / Auto |
| Angle of View | -Z2812: 106° ~ 33° |
| Adjustment Range | Pan: 0° ~ 355° Tilt: 0° ~ 75° / Rotation: 0° ~ 355° |
| Infrared | |
| IR Distance | 20 ~ 40m or more |
| IR Intensity | Smart IR |
| Video | |
| Compression | H.265 / H.264 / MJPEG |
| Image Resolution | Main stream: 2592×1520 |
| | Secondary stream: D1 |
| Frame Rate | Main stream: 2592×1520@30fps |
| | Secondary stream: D1@30fps |
| Bitrate | 32kbps ~ 16Mbps |
| Privacy Masking | At least 4 zones |
| Motion Detection | At least 4 zones |
| Digital Noise Reduction | 3D noise reduction |
| Image Flip | Flip/ Mirror/ Rotation at 90°, 180°, 270° |
| Audio | |
| Compression | G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 |
| Bitrate | 32kbps ~ 64kbps |
| Audio Function | Bi-directional audio/ AEC/ Mixed audio recording/ Dumb/ Mute |
| Network | |
| Network Protocols | TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) |
| User Interface | IPC Control (IE, Firefox, Chrome) |
| User Access | 10 Users or more |
| Application Programming | ONVIF (Profile S, Profile G), GB/T 28181-2011, API,CGI |

| Alarm | |
|---|--|
| Alarm Triggers | Alarm input/ Network disconnect/ Disk full/ Disk error |
| Intelligent | Motion detection/ Tampering/ Guard line/ Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/ Object removal/ Gathering/ Audio surge |
| Alarm Events | Alarm report/ Recording/ Text overlay/ Snapshot/ External output/ Email notice/ Acoustic alarm |
| Interfaces | |
| Ethernet | 10/ 100M, RJ45 interface |
| Audio In / Out | 2 x Line in / 1 x Line out |
| Control | 1 x RS485 |
| Alarm In / Out | 1 x Input / 1 x Output |
| Video Out | 1 x BNC, 1.0V [p-p] / 75Ω |
| Memory Slot | Micro SD card slot, supports up to 128GB |
| Power Output | 1 x DC12V / 0.1A Output |
| Electrical | |
| Power | AC24V±10% / DC12V ± 10% / PoE (IEEE802.3af) |
| Support Required | |
| Camera | White Balance Gain Control Backlight Compensation (Off / BLC / WDR / HLC) |
| Video | Multi-stream Video Freeze ROI Digital Defog |
| System | Automatic Network Replenishment (AN) |
| Item No. 04: Interactive Digital Board 86" (with extra writing boards 40" diagonal on each side) | |
| Quantity: 01 | |
| Appearance | |
| Frame | Aluminum-magnesium alloy |
| Surface | photoelectric glass |
| LCD | |
| Display Screen Size | 1898~x1069~ |
| Luminance | 480cd/m2 or better |
| Visible angle | 178°/178° or more |
| Contrast | 4000:1 or higher |
| Resolution | 3840*2160 or higher |
| Lifetime | 50,000h or more |
| Touch Sensitivity | |
| Technology | Capacitive Touch |
| Touch Points | 10 or more |
| Built-in-Computer (OPS) | |
| CPU | Intel Core i5 or higher |
| Memory | 8G DDR4 or higher |
| Hard Disk | 256G SSD or higher |

| | |
|---|---|
| Audio | 2*15W or better |
| Wireless | Build-in Wi-Fi, IEEE 802.11b/g/n, ac |
| LAN | Build-in network card, 10M/ 100M/ 1000M |
| Interfaces | |
| Input Interface | 1*HDMI, 1*TOUCH USB, 1*VGA, 3*USB2.0, 1*USB3.0,1*RS232,1*Audio in |
| LAN Port | 1*RJ45 |
| Power | |
| Voltage | AC100V~240V 50/ 60Hz |
| Support Required | |
| Writing Tools | Regular Chalk, Dust-free Chalk, Liquid Chalk |
| Display ON/ OFF Switch | One-button switch, Gesture Recognition support for screen lock |
| Screen Mode Switch | Switchable between full and half screen |
| Surface Glass | Explosion-proof, Water-resistant, Dust-proof |
| Installation Mode | Both Stand & Wall Mounting Kits |
| Teaching Application | <p>English Language, featuring:</p> <ul style="list-style-type: none"> - Interactive whiteboard functions, e.g., writing, painting, remark, save, highlight, zoom, etc. - Intelligently identify & convert hand-writing characters/ formula/ shape into printing format - Screen recording and save into '.avi' file - Downloading courseware via QR code scanning Screen pages adding and previewing. - Previewed pages illustrated on the two-split screen, four- split screen, horizontal and vertical screen for comparison teaching - Upload documents (picture, PowerPoint, etc.) - Annotating while playing video |
| Item No. 05: LED TV | |
| Quantity: 01 | |
| SmartTV | 65 inch LED TV |
| TV Type | LED |
| Aspect Ratio | 16:09 |
| Resolution/ Contrast | 1920*1080/ 4000:01 |
| Processor | 4 Core CPU + 4 Core GPU |
| RAM | 1GB DDR3 or higher |
| Flash Memory | 8GB eMMC or higher |
| Network | Ethernet, WIFI(802.11 b/g/n), WIFI Hotspot |
| Audio Output Power | 2*8W |
| Connectivity | 3*HMDI, 2*(2.0) USB, 1* headphone, 1* EtherLAN |
| Operate System | Android 7.0 or higher |
| Item No. 06: Teacher/ Speaker Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | |
| Quantity: 01 | |
| Receiver | |

| | |
|---|--|
| Frequency range | 740-820MHz |
| Oscillation modes | PLL |
| Adjustment method | FM |
| Maximum Deviation | ±50KHz |
| Sensitivity | 18dBuV |
| SNR | ≥89dB or better |
| Frequency response | 60Hz-15KHz (+/- 3dB) |
| Operating voltage | DC 12V |
| Balanced output | 0-300mV/600Ω |
| Dynamic range | ≥105dB |
| Transmitter | |
| Frequency range | 740-820MHz |
| Oscillation modes | PLL |
| Adjustment method | FM |
| Maximum Deviation | ±50KHz |
| Transmit Power | 10mW or better |
| Frequency stability | ≤±0.005% |
| Power supply | AA battery *2 |
| Frequency selection | Infrared |
| Item No. 07: Student/ Audience Wireless Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | |
| Quantity: 01 | |
| Frequency response | 100Hz ~ 18KHz |
| Sensitivity | -38dB |
| Directional property | hypercardiod ≤135° |
| Impedance output | 200Ω±30% |
| Output amplitude | 300mV or more |
| Max. Sound Pressure | 132dB,1kHz at 1% T.H.D |
| Dynamic range | Typical 115dB, 1kHz at max sound pressure |
| SNR | >=70dB |
| Phantom Power | DC 48V |
| Output connector | XLR-3-12C |
| Others | Ceiling Mount Bracket, Length 1200mm or more |
| Item No. 08: Installation, Configuration, Commissioning, and Training | |
| Quantity: 01 | |
| Installation, Configuration & Commissioning | Complete installation of all equipment/ components pertaining to Smart Classroom setup as per manufacturer's guidelines. Configuration of all equipment/ components for an optimum and efficient output of the facility meeting the objectives and requirements. Testing and commissioning of the complete setup as per the requirements and satisfaction of SAUS. |

Section 5b: Special Terms and Conditions

| | |
|--------------------------------|---|
| Functional Requirements | <ol style="list-style-type: none"> 1. Interactive recording and live transmission of lectures to multiple sites/ clients simultaneously. 2. Automatic switching between the streams capturing instructor, interactive digital board/ whiteboard, and laptop/ computer screen with adjustable layouts to be displayed locally as well as at the remote sites. 3. Automatic tracking of the instructor to record the body language and writing on the interactive digital board or a white board. 4. The writing on the board should be clearly read by the camera by auto-zooming and focusing functionality, and switched automatically in main screen while instructor is writing on board. 5. Audio recording using wireless/ Wired microphone integrated with the audio mixer. The microphone audio is recorded and streamed in synchronization with the video stream for the delivery of lectures locally as well as at the remote site(s). 6. Lecture capturing comprising of multiple voice/ video streams into a single stream for transmission over the network. 7. Live streaming of Lecture stream over the network and internet using the commonly available streaming client applications for various platforms. |
|--------------------------------|---|

Standard

- The goods supplied must be capable of functioning properly under the climatic conditions of Shikarpur.
- There shall be no deviation from specification as provided with each item. In case of any ambiguity in specification/ accessories needed for the full functioning of the equipment, the firm must clear it with the Procurement Committee. However, the decision of the Procurement Committee will be final.
- The goods with standard accessories supplied under this tender shall conform to the standard maintenance in the technical specification.

Training

- The firm supplying the item/ equipment(s) will demonstrate the operation/ working of the supplied goods to the satisfaction of SAUS and provide training. Suppliers are advised to provide details on formal training covering aspects as mentioned below.

| Level | |
|----------|---|
| Basic | Demonstrate the operations/ working to end users; Identify the do's and don'ts; and aspects deemed necessary for long-life functioning of supplied goods. |
| Hands-on | Demonstrate technical features; Elaborate technical configuration(s) performed for integration with the overall setup; |
| Advanced | Provide trainings to Operators for troubleshooting and smooth operations using system manuals |

Section 6: Returnable Bidding Forms / Checklist

This section serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

Technical Bid:

| | |
|--|--------------------------|
| Have you duly completed all the Returnable Bidding Forms? | |
| ✦ Form A: Bid Submission Form | <input type="checkbox"/> |
| ✦ Form B: Joint Venture/Consortium/ Association Information Form | <input type="checkbox"/> |
| ✦ Form C: Bidder Information Form | <input type="checkbox"/> |
| ✦ Form D: Qualification Form | <input type="checkbox"/> |
| ✦ Form E: Technical Bid Proposal Form | <input type="checkbox"/> |
| ✦ Form F: Specifications Compliance Form | |
| Have you provided the required documents to establish compliance with the evaluation criteria in Section 4? | <input type="checkbox"/> |

Financial Bid:

| | |
|-------------------------------|--|
| ✦ Form G: Price Schedule Form | |
|-------------------------------|--|

Form A: Bid Submission Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

We, the undersigned, submit our Bid for the award of contract to supply the goods and related services required for [Insert Title of goods and services] in accordance with your Invitation to Bid No. [Insert ITB Reference Number]. We hereby submit our Bid, which includes this Bid proposal.

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/ Consortium/ Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by any of the Government/ Semi-government/ Autonomous organization;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any Organization in Pakistan;
- c) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against us that could impair our operations in the foreseeable future;
- d) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the SAUS, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the SAUS.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/ or sanctioning by the SAUS.

We offer to supply the goods and related services in conformity with the Bidding documents and in accordance with the Schedule of Requirements and Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet. We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should SAUS accept this Bid.

Name: _____

Title: _____

Date: _____

Signature: _____

[Stamp with official stamp of the Bidder]

Form B: Joint Venture/ Consortium/ Association Information Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/ Consortium/ Association.

| No | Name of Partner and contact information <i>(address, telephone numbers, fax numbers, e-mail address)</i> | Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed |
|----|--|--|
| 1 | [Complete] | [Complete] |
| 2 | [Complete] | [Complete] |
| 3 | [Complete] | [Complete] |

| | |
|--|------------|
| Name of leading partner (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution) | [Complete] |
|--|------------|

We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

Letter of intent to form a joint venture **OR** JV/ Consortium/ Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/ Consortium/ Association shall be jointly and severally liable to SAUS for the fulfillment of the provisions of the Contract.

| | |
|------------------------|------------------------|
| Name of partner: _____ | Name of partner: _____ |
| Signature: _____ | Signature: _____ |
| Date: _____ | Date: _____ |
| Name of partner: _____ | Name of partner: _____ |
| Signature: _____ | Signature: _____ |
| Date: _____ | Date: _____ |

Form C: Bidder Information Form

| | |
|---|---|
| Legal name of Bidder | [Complete] |
| Legal address & Branch Offices | [Complete] |
| Year of registration | [Complete] |
| Bidder's Authorized Representative Information | Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete] |
| Are you a SAUS registered vendor? | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert SAUS vendor number] |
| Countries of operation | [Complete] |
| Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate): | [Complete] |
| Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate): | [Complete] |
| Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy) | [Complete] |
| Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies, education, vocational trainings, social responsibility towards people with Special needs, or membership of trade institutions promoting such issues | [Complete] |
| Contact person that SAUS may contact for requests for clarifications during Bid evaluation (Only Lead Bidder) | Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete] |

Please attach the following documents:

1. Company Profile, which should not exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/ or services being procured.
2. Proposed timetable for delivery, installation and commissioning plan for the required and quoted items to SAUS after the award of Contract.
3. Certificate of Registration of the business.
4. Principal's Authorization Letter in favor of Bidder.
5. A proofing document confirms the offered warranty for at least One (01) year, supported by the manufacturer's certificates, if applicable.
6. Proven records of Projects of similar nature/ value/ complexity in which delivery and services or consultancy were extended to institute(s).
7. Full detailed description of the specifications of the proposed items in addition to catalogues clearly showing the proposed specifications responding to the requirements.
8. Supporting photos of the proposed items (if applicable).
9. Quality certifications: ISO 9001:2015 (if applicable)
10. Latest Audited Financial Statements (Income Statement and Balance Sheet) including Auditor's Report for the past (3 years).

Note: To be filled in by each partner in case Bid is submitted as a JV/ Consortium/ Association

Form D: Qualification Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

If JV/ Consortium/ Association, to be completed by each partner.

Previous Relevant Experience

Please list all Projects successfully completed in the last 3 years, covering following aspects;

- Scope of the projects/ assignments.
- Activities performed for the successful completion of the project.
- Support Services Contracts in hand with SLA for the supplied goods or services.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/ JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by SAUS.

| Project name & Country of Assignment | Client & Reference Contact Details | Contract Value | Period of activity and status | Types of activities undertaken |
|--------------------------------------|------------------------------------|----------------|-------------------------------|--------------------------------|
| | | | | |
| | | | | |
| | | | | |

Bidders may also attach their own Project Data Sheets with more details for assignments above.

History of Non-Performing Contracts

| <input type="checkbox"/> Non-performing contracts did not occur during the last 3 years | | | |
|---|------------------------------------|---|---|
| <input type="checkbox"/> Contract(s) not performed in the last 3 years | | | |
| Year | Non- performed portion of contract | Contract Identification | Total Contract Amount (current value in US\$) |
| | | Name of Client: Address of Client: Reason(s) for non-performance: | |

Financial Standing

| | | |
|--------------------------------------|------|-----|
| Annual Turnover for the last 3 years | Year | PKR |
| | Year | PKR |
| | Year | PKR |

Latest Credit Rating (if any), indicate the source

| Financial information (in PKR equivalent) | Historic information for the last 3 years | | |
|--|---|--------|--------|
| | Year 1 | Year 2 | Year 3 |
| | <i>Information from Balance Sheet</i> | | |
| Total Assets (TA) | | | |
| Total Liabilities (TL) | | | |
| Current Assets (CA) | | | |
| Current Liabilities (CL) | | | |
| | <i>Information from Income Statement</i> | | |
| Total / Gross Revenue (TR) | | | |
| Profits Before Taxes (PBT) | | | |
| Net Profit | | | |
| Current Ratio | | | |

Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following condition:

- a) Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
- b) Historic financial statements must be audited by a chartered accountant;
- c) Historic financial statements must correspond to accounting periods already completed and audited. No statements for partial periods shall be accepted.

Form E: Technical Bid Proposal Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

The Bidder's Bid should be organized to follow this format of the Technical Bid Proposal. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same may be viewed as non-responsive.

SECTION 1: Qualification, capacity and expertise

- 1.1 Bidder's general organizational capability: management structure, financial stability and project financing capacity, project management controls, extent of work to be subcontracted (if so, provide details).
- 1.2 Bidder's relevance of specialized knowledge and experience on similar engagements done in the region/ country. Bidder should submit a detailed description of the projects executed (quantities/ nature, value, beneficiary)

SECTION 2: Management Structure and Key Personnel

- 2.1 Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of project describing relationship of key positions and designations.
- 2.2 Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to scope of goods and/or services.

Format for CV of Proposed Key Personnel

| | |
|--------------------------------------|---|
| Name of Personnel | [Insert] |
| Position | [Insert] |
| Nationality | [Insert] |
| Language proficiency | [Insert] |
| Education/Qualifications | <i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i> [Insert] |
| Professional certifications | <i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i> ✦ Name of institution: [Insert] ✦ Date of certification: [Insert] |
| Employment Record/ Experience | <i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position and location of employment.]</i> [Insert] |

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

Signature of Personnel

Date (Day/Month/Year)

SECTION 3: Scope of Supply, Technical Specifications and Training(s)

This section should demonstrate the Bidder's responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed

description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements/specifications. All important aspects should be addressed in sufficient detail.

- 3.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 3.2 Explain whether any work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 3.3 Implementation plan including a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.
- 3.4 Details on post-deployment trainings on-site hands-on training .

SECTION 4: Registration & Certifications (if applicable)

This section should demonstrate the Bidder's responsiveness towards its registration with the relevant national body and international organizations Certifying the bidder's qualifications with respect to Quality and Project Management.

- 4.1 Provide a copy of valid Certificate issued by International Organization for Standardization certifying the bidder's compliance and practices towards quality management principles and standards in their offered products/ solutions and services.
- 4.2 Provide a copy of valid Certificate issued by International Organization for Standardization certifying the bidder's compliance and practices towards information security management principles and standards in their offered products/ solutions and services.

SECTION 5: Warranty and Support Services

This section should demonstrate the Bidder's responsiveness to the post-commissioning warranty and support services of the goods supplied, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements. All important aspects should be addressed in sufficient detail.

- 5.1 A detailed description of how the Bidder will provide the Warranty claims to the users, keeping in mind the span and complexity of the project in context of local conditions and project environment.
- 5.2 Explain whether any services or work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 5.3 Details how the post-delivery/ deployment Support Services will be provided to the users keeping in consideration the criticality of IT systems, and dependency of university administration and operations on such systems.

Form F: Specifications Compliance Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

The Bidder's Bid should be organized to follow this format of the Technical Bid Proposal. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same may be viewed as non-responsive.

| Goods and services to be Supplied <i>(based on the Technical Specifications provided in Section 5a & Section 5b)</i> | Your response Compliance with specifications | | |
|--|--|---|-------------------------------------|
| | Comply (Yes/ No) | Quoted Specifications | Type/ Model no. & Country of Origin |
| | <i>(If No, indicate discrepancies)</i> | | |
| Required Items | Offered Items | | |
| Item No. 01: Recording Host with H.323 capability | | (Bidders are required to attach Compliance Comparison Sheet supported by Product Data Sheet against the Specifications provided in Section – 5) | |
| IP Camera Input: 4 channel | | | |
| Compression: H.265 / H.264 | | | |
| Resolution: 1080p | | | |
| Frame Rate: 30fps | | | |
| Recording | | | |
| Compression: H.265 / H.264 | | | |
| Resolution: 1080p | | | |
| Frame Rate: 30fps | | | |
| Bitrate: 128 ~ 8192Kbps | | | |
| Streaming: Flash/ HTML5 | | | |
| Continuous Presence: Cinema mode, PiP, VIP1+2, VIP1+3, 4 | | | |
| Audio | | | |
| Compression: G.711a / G.711u / ADPCM / G.722 / AAC-LC | | | |
| Bitrate: 32 ~ 128kbps | | | |
| Functions: AEC, AGC, ANS, AFC | | | |
| Interfaces | | | |
| Video Input: 2 x DVI-I | | | |
| Video Output: 2 x DVI-I | | | |
| Audio Input: 6 x Mic in, 2 x Line in, Stereo | | | |
| Audio Output: 2 x Line out, Stereo, S/ PDIF | | | |
| Ethernet: 1 x Gigabit network port, RJ45 interface, 2 x 10/ 100M, RJ45 interface, 4 x 10/ 100M, RJ45 interface (PoE) | | | |

| | | | |
|--|--|--|--|
| Internal HDDs: 2 x SATA (1 x 1TB 2.5" HDD) | | | |
| Control: 2 x RS485, 8 x RS232 | | | |
| Protocols | | | |
| Video Conferencing: H.323, H.239, H.460 | | | |
| Environmental | | | |
| Power: 100 ~ 240V AC, 50 ~ 60Hz | | | |
| Item No. 02: EPTZ Camera | | | |
| Image Sensor: 1/1.8" progressive scan CMOS | | | |
| Pixels: 6.0 Megapixel | | | |
| Focal Length: 6 ~ 138mm, 23x optical | | | |
| Aperture Ratio: F1.5 (W) ~ F3.4 (T), DC drive | | | |
| Pan / Tilt Range: Pan: ±5° , Tilt: ±15° , manual | | | |
| Illumination: Color: 0.002lux @ (F1.5, AGC ON) B/W: 0.0002lux @ (F1.5, AGC ON) | | | |
| Shutter Speed: 1 ~ 1/30,000s | | | |
| S/N Ratio: ≥ 52dB | | | |
| Digital Noise Reduction: 2D, 3D noise reduction | | | |
| Video | | | |
| Compression: H.265/ H.264 | | | |
| Image Resolution: 1080p | | | |
| Frame Rate: 1 ~ 30fps | | | |
| Bitrate: 32kbps ~ 16mbps | | | |
| Multi-stream: Main stream 1: 1080p Main stream 2: 1080p Secondary, stream: D1 | | | |
| Image Adjustment: Brightness, Contrast, Saturation, Sharpness | | | |
| Image Flip: Flip / Mirror / Rotation at 90°, 180°, 270° | | | |
| PTZ: ePTZ, Auto tracking | | | |
| Audio | | | |
| Compression: G.711a / G.711u / ADPCM / G.722 / G.722.1c/ G.726/ AAC-LC | | | |
| Bitrate: 32 ~ 64kbps | | | |
| Audio Function: Bi-directional audio/ AEC/ Mixed audio recording/ Dumb/ Mute | | | |
| Network | | | |
| Network Protocols:TCP/ IP, UDP, HTTP, DHCP, DNS/DDNS, RTSP, PPPoE, NAT, QoS, UPnP, SMTP | | | |
| System | | | |
| User Authentication: Multilevel, Password | | | |
| Interfaces | | | |
| Ethernet: 1 x Gigabit network port, RJ45 interface | | | |

| | | | |
|--|--|--|--|
| Audio In / Out: 1 x Line in / 1 x Line out | | | |
| Control: 1 x RS485 | | | |
| Memory Slot: Micro SD card slot, supports 256GB | | | |
| Environmental | | | |
| Power: 12V DC \pm 10% / PoE (IEEE802.3at) | | | |
| Support Required | | | |
| Camera: While Balance, Gain Control, Electronic, Defog, Backlight Compensation | | | |
| VideoL Privacy Masking, Auto Directing, HLC, Motion Detection | | | |
| System: Recovery, Heartbeat Detectio, Automatic Network Replenishment (AN) | | | |
| Item No. 03: Audience Camera | | | |
| Image Sensor: 1/3" progressive scan CMOS | | | |
| Pixels: 4.0 Megapixel | | | |
| Illumination: Color: 0.05 lux @ (F1.4, AGC ON) B/W: 0 lux with IR | | | |
| Shutter Speed: 1 ~ 1/ 30,000s | | | |
| S/N Ratio: >50dB | | | |
| Lens | | | |
| Mount Type: Φ 14 | | | |
| Auto Iris: DC drive | | | |
| Focal Length: | | | |
| Focus Control: Manual / Semi-Automatic / Auto | | | |
| Angle of View: -Z2812: 106° ~ 33° | | | |
| Adjustment Range: Pan: 0° ~ 355° Tilt: 0° ~ 75° / Rotation: 0° ~ 355° | | | |
| Infrared | | | |
| IR Distance: 20 ~ 40m | | | |
| IR Intensity: Smart IR | | | |
| Video | | | |
| Compression: H.265 / H.264 / MJPEG | | | |
| Image Resolution: Main stream: 2592 \times 1520, Secondary stream: D1 | | | |
| Frame Rate: Main stream: 2592 \times 1520@30fps, Secondary stream: D1@30fps | | | |
| Bitrate: 32kbps ~ 16Mbps | | | |
| Privacy Masking: At least 4 zones | | | |
| Motion Detection: At least 4 zones | | | |
| Digital Noise Reduction: 3D noise reduction | | | |
| Image Flip: Flip/ Mirror/ Rotation at 90°, 180°, 270° | | | |
| Audio | | | |
| Compression: G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726 | | | |

| | | | |
|---|--|--|--|
| Bitrate: 32kbps ~ 64kbps | | | |
| Audio Function: Bi-directional audio/ AEC/ Mixed audio recording/ Dumb/ Mute | | | |
| Network | | | |
| Network Protocols: TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) | | | |
| User Interface: IPC Control (IE, Firefox, Chrome) | | | |
| User Access: 10 Users | | | |
| Application Programming: ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI | | | |
| Alarm | | | |
| Alarm Triggers: Alarm input/ Network disconnect/ Disk full/ Disk error | | | |
| Intelligent: Motion detection/ Tampering/ Guard line/ Defocus/ Scene change/ Enter guard area/ Exit guard area/ Object left/ Object removal/ Gathering/ Audio surge | | | |
| Alarm Events: Alarm report/ Recording/ Text overlay/ Snapshot/ External output/ Email notice/ Acoustic alarm | | | |
| Interfaces | | | |
| Ethernet: 10/ 100M, RJ45 interface | | | |
| Audio In / Out: 2 x Line in / 1 x Line out | | | |
| Control: 1 x RS485 | | | |
| Alarm In / Out: 1 x Input / 1 x Output | | | |
| Video Out: 1 x BNC, 1.0V [p-p] / 75Ω | | | |
| Memory Slot: Micro SD card slot, supports up to 128GB | | | |
| Power Output: 1 x DC12V / 0.1A Output | | | |
| Electrical | | | |
| Power: AC24V±10% / DC12V ± 10% / PoE (IEEE802.3af) | | | |
| Support Required | | | |
| Camera: While Balance Gain Control Backlight Compensation (Off / BLC / WDR / HLC) | | | |
| Video: Multi-stream , Video Freeze, ROI, Digital, Defog | | | |
| System: Automatic Network Replenishment (AN) | | | |
| Item No. 04: Interactive Digital Board 86" (with extra writing boards 40" diagonal on each side) | | | |
| Appearance | | | |
| Frame: Aluminum-magnesium alloy | | | |

| | | | |
|---|--|--|--|
| Surface: photoelectric glass | | | |
| LCD | | | |
| Display Screen Size: 1898~x1069~ | | | |
| Luminance: 480cd/m2 | | | |
| Visible angle: 178°/178° | | | |
| Contrast: 4000:1 | | | |
| Resolution: 3840*2160 | | | |
| Lifetime: 50,000h | | | |
| Touch Sensitivity | | | |
| Technology: Capacitive Touch | | | |
| Touch Points: 10 | | | |
| Built-in-Computer (OPS) | | | |
| CPU: Intel Core i5 | | | |
| Memory: 8G DDR4 | | | |
| Hard Disk: 256G SSD | | | |
| Audio: 2*15W | | | |
| Wireless: Build-in Wi-Fi, IEEE 802.11b/g/n, ac | | | |
| LAN: Build-in network card, 10M/ 100M/ 1000M | | | |
| Interface: | | | |
| 1*HDMI, 1*TOUCH USB, 1*VGA, 3*USB2.0, 1*USB3.0,1*RS232,1*Audio in | | | |
| 1*RJ45 | | | |
| Power | | | |
| Voltage:AC100V~240V 50/ 60Hz | | | |
| Support required | | | |
| Writing Tools: Regular Chalk, Dust-free Chalk, Liquid Chalk | | | |
| Display ON/ OFF Switch: One-button switch, Gesture Recognition support for screen lock | | | |
| Screen Mode Switch: Switchable between full and half screen | | | |
| Surface Glass: Explosion-proof, Water-resistant, Dust-proof | | | |
| Installation Mode: Both Stand & Wall Mounting Kits | | | |
| Item No. 05: LED TV | | | |
| SmartTV: 55 inch Smart LED TV | | | |
| TV Type: | | | |
| Aspect ratio: 16 : 09 | | | |
| Resolution/ Contrast: 1920*1080/ 4000:01 | | | |
| Processor: 4 Core CPU + 4 Core GPU | | | |
| RAM: 1GB DDR3 | | | |
| Flash Memory: 8GB eMMC | | | |

| | | | |
|---|--|--|--|
| Network: Ethernet, WIFI(802.11 b/g/n), WIFI Hotspot | | | |
| Audio Output Power: 2*8W | | | |
| Connectivity: 3*HMDI, 2*(3.0) USB, 1* headphone, 1* EtherLAN | | | |
| Operate System: Android 7.0 | | | |
| Item No. 06: Teacher/ Speaker Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | | | |
| Receiver | | | |
| Frequency range:740-820MHz | | | |
| Oscillation modes: PPL | | | |
| Adjustment method: FM | | | |
| Maximum Deviation: $\pm 50\text{KHz}$ | | | |
| Sensitivity: 18dBuV | | | |
| SNR: $\geq 89\text{dB}$ | | | |
| Frequency response: 60Hz-15KHz (+/- 3dB) | | | |
| Operating voltage: DC 12V | | | |
| Balanced output: 0-300mV/600 Ω | | | |
| Dynamic range: $\geq 105\text{dB}$ | | | |
| Transmitter | | | |
| Frequency range:740-820MHz | | | |
| Oscillation modes:PLL | | | |
| Adjustment method: FM | | | |
| Maximum Deviation: $\pm 50\text{KHz}$ | | | |
| Transmit Power: 10mW | | | |
| Frequency stability: $\leq \pm 0.005\%$ | | | |
| Power supply: AA battery *2 | | | |
| Frequency selection: Infrared | | | |
| Item No. 07: Student/ Audience Wireless Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | | | |
| Frequency response:100Hz~18KHz | | | |
| Sensitivity: -38dB | | | |
| Directional property: hypercardiod $\leq 135^\circ$ | | | |
| Impedance output: 200 $\Omega \pm 30\%$ | | | |
| Output amplitude: 300mV | | | |
| Max. Sound Pressure: 132dB,1kHz at 1% T.H.D | | | |
| Dynamic range: Typical 115dB, 1kHz at max sound pressure | | | |
| SNR: $\geq 70\text{dB}$ | | | |
| Phantom Power: DC 48V | | | |
| Output connector: XLR-3-12C | | | |
| Other: Ceiling Mount Bracket, Length 1200mm | | | |

Form G: Price Schedule Form

| | | | |
|-----------------|-------------------------|-------|-------------|
| Name of Bidder: | [Insert Name of Bidder] | Date: | Select date |
| ITB reference: | SAUS-SCS-ITB-101-21 | | |

[The Bidder is required to prepare the Price Schedule following the below format. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided.]

We, the <<Name of Bidder>>, hereby submit our Financial Bid for the Supply of Items as below. We assure you of our full compliance to the required specifications, delivery schedule and other terms without any deviation and/ or reservations. We reiterate our acceptance to the terms and conditions of the RFP. Our Financial proposal as below is submitted for your kind consideration;

| Quoted Items in compliance to the Technical Specifications as referred in Section – 5a and Section – 5b | | Quantity (a) | Unit Price [in PKR] (b) | GST [in PKR] (c) | Total Price [in PKR] $d=a*[b+c]$ |
|---|---|-----------------|-------------------------------|---------------------------|--|
| 1 | Interactive Digital Recording Host with H.323 capability | 01 | | | |
| 2 | EPTZ Camera | 01 | | | |
| 3 | Audience Camera | 01 | | | |
| 4 | Interactive Digital Board 86" ±6" (with extra writing boards 40" diagonal on each side) | 01 | | | |
| 5 | LED TV | 01 | | | |
| 6 | Teacher/ Speaker Mic along with Ceiling Bracket/ J-Rod (8 ft or more adjustable) | 01 | | | |
| 7 | Student/ Audience Wireless Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | 01 | | | |
| 8 | Installation, configuration, commissioning, and training services | 01 | | | |

Price Schedule in USD (in case SAUS opens LC in favor of Principal/ Manufacturer)

| Quoted Items in compliance to the Technical Specifications as referred in Section – 5a and Section – 5b | | Quantity (a) | Unit Price [in USD.] (b) | Total Price [in USD.] |
|---|---|-----------------|-----------------------------------|--------------------------------|
| 1 | Interactive Digital Recording Host with H.323 capability | 01 | | |
| 2 | EPTZ Camera | 01 | | |
| 3 | Audience Camera | 01 | | |
| 4 | Interactive Digital Board 86" (with extra writing boards 40" diagonal on each side) | 01 | | |
| 5 | LED TV | 01 | | |
| 6 | Teacher/ Speaker Mic along with Ceiling Bracket/ J-Rod (8 ft or more adjustable) | 01 | | |
| 7 | Student/ Audience Wireless Mic along with Ceiling Bracket/ J- Rod (8 ft or more adjustable) | 01 | | |

Local Services

| | | Quantity (a) | Unit Price [in PKR] (b) | Total Price [in PKR] |
|---|--|-----------------|----------------------------|-------------------------|
| | | | | |
| 8 | Importation Charges (including Freight, Custom Clearance, and inland transportation) | 01 | | |
| | Installation & Commissioning (a) Mounting of equipment (b) Installation of equipment (c) Configuration & Commissioning | 01 | | |
| | Training (a) Level 1: Functional Training for end users (b) Level 2: Hands-on Configuration & software training | 5 | | |

Extended Warranty Price (at discretion of Shaikh Ayaz University Shikarpur)

| Annual Warranty & Support Services beyond Standard Warranty of the Quoted Items | | 2 nd Year (in USD) | 3 rd Year (in USD) | 4 th Year (in UD) |
|---|---|----------------------------------|----------------------------------|---------------------------------|
| | | | | |
| 1 | Recording Host with H.323 capability | | | |
| 2 | EPTZ Camera | | | |
| 3 | Audience Camera | | | |
| 4 | Interactive Digital Board 86" (with extra writing boards 40" diagonal on each side) | | | |
| 5 | LED TV | | | |
| 6 | Teacher/ Speaker Mic along with Ceiling Bracket/ J-Rod | | | |
| 7 | Student/ Audience Wireless Mic along with Ceiling Bracket/ J- Rod | | | |

Total Bid Value in Figures (Prices in PKR including GST): _____

Total Bid Value in words (Prices in PKR including GST): _____

Name & Designation of Authorized Person: _____

Signature: _____ (Please affix company stamp here)

Annex – I: Integrity Pact

The Bidders will be required to submit the below text on stamp paper after filling in the details and duly signed as well as stamped, as part of their Technical Proposal.

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC
PAYABLE BY THE SUPPLIER OF GOODS, SERVICES & WORK IN CONTRACTS WORTH
RS. 10.0 MILLION OR MORE

(To be filled by the bidder as a part of technical proposal)

Contract Number: _____ Dated: _____

Contract Value: _____

Contract Title: _____

_____ hereby declare 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 partner.

Without limiting the generality of the forgoing, _____ represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or 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 nature 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 consultant fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatever from GoP, except that which has been expressly declared pursuant hereto.

_____ 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, representation or warranty.

_____ accept full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts 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, _____ agrees to identify 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 times the sum of any commission, gratification, bribe, finder's fee or kickback given by _____ as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever from GoP.

[Buyer] [Seller / Supplier]