

BOARD OF INTERMEDIATE & SECONDARY EDUCATION



HYDERABAD - SINDH

**BIDDING DOCUMENT
FOR THE YEAR 2023-2024**

Tender Reference No. BISE/ STORE/HYD/- 195 dated: 14.09.2023

For Procurement of

**SUPPLY, INSTALLATION AND COMMISSIONING OF ONLINE
EXAMINATION SYSTEM OVER THE CLOUD**

Tender issued to M/s _____

**The deadline for submission is 05.10.2023 at 12:00noon
Technical Proposal will be opened on the same day at 01:00pm**

PART - I

Invitation of Bids



BOARD OF INTERMEDIATE & SECONDARY EDUCATION HYDERABAD SINDH
Excellence-Equity-Empathy

No. BISE/STORE/23/- 195

DATED: 14/09/23

NOTICE FOR INVITATION OF TENDER

The management of the Board of Intermediate & Secondary Education, Hyderabad intends the Transformation of Manual Work System to Integrated Information Technology (Automation) System. The assignment will consist of the following activities at an initial stage subject to increase and decrease and in phases from time to time at the discretion of the Chairman.

- (i) **Examination Activities**
 - a. Pre-examination
 - b. Conduct of examination
 - c. Post examination
- (ii) **Accounts / Audit Activities**
 - a. Online collection of fees
 - b. To update the external audit paras, settlement of paras, DAS and Public Accounts Committee matters.
 - c. To update the payment system of teachers and other claims
 - d. To update the detail of Income and Expenditure and remaining balance
 - e. To update the information regarding budget estimate and actualization.
- (iii) **General and Misc. Activities**
 - a. Human Resources (H.R)
 - b. Procurement and tenders
 - c. Archives

Note: The Board will prefer to the firms having a vast experience of job with other sister Boards on the basis of best evaluated skills as per SPPRA Rules.

The sealed bids are invited from the authorized firms registered with Tax Authorities for the supply and provide the following requirement and installation service as per detailed specifications mentioned in the tender / bidding documents.

- i. **Supply, Installation and Commissioning of Online Examination System Over the Cloud**

Method of Procurement:
(Single-Stage- Two Envelops Procedure)

Bidding / Tender Documents:

- i. **Issuance:** The bidding documents will be issued from the first date of publication / hoisting of this notice to 05.10.2023 upto 11:00am from office of Secretary, BISE Hyderabad on depositing fee of Rs. 2000/- (Non Refundable) in shape of Bank Draft / Pay Order / Cash Challan deposited in UBL BISE, Branch Hyderabad or same can be downloaded from website of BISE, Hyderabad & SPPRA.

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SECRETARY
Board of Intermediate
& Secondary Education
HYDERABAD:-

- ii. **Submission:** Last date will be 05.10.2023 upto 12:00 noon along-with the bid security, equal to 5% of the bid price in shape of Pay Order in favour of the Secretary Board of Intermediate & Secondary Education, Hyderabad. The financial proposal shall be opened after the evaluation and approval of the technical proposal.
- iii. **Opening:** The technical proposal will be opened on the same date at 01:00pm by the Procurement Committee in the presence of bidders or their authorized representatives. Any conditional bid and bid without security shall not be considered.
- iv. **Un-responded Tenders:** will again be issued / submitted / opened on following dates:

- Attempt 2nd:** (a) Issuance Date: 10.10.2023
(b) Submission at 12:00 noon & Opening 01:00 pm on 26.10.2023.

The Bid Security shall be forfeited by the Board, if the bidder withdraws his bid after opening and before the expiry of the bid validity period or fails to sign the contract if the bid is accepted.

The Procuring Agency may reject all or any Bid at any time prior to the acceptance of the Bid, subject to the relevant provisions of SPPRA Rules, 2010 (Amended 2019).

For further details please contact Mr. Uzair Ahmed, Assistant Secretary Establishment, BISE, Hyderabad (Mobile Phone # 0318-9300110)


SECRETARY


SECRETARY
Board of Intermediate
& Secondary Education
HYDERABAD.

PART - II

Instructions to Bidders

SECTION – I

INSTRUCTIONS TO BIDDERS & GENERAL CONDITIONS OF CONTRACT

The Instructions to Bidders (ITB) and General Conditions of Contract (GCC) applied in this Contract shall be the same as per Standard Bidding Documents for Goods, issued by Sindh Public Procurement Regulatory Authority (SPPRA). For further references the same may be downloaded from SPPRA's website www.ppms.pprasinhd.gov.pk or it may be provided from this Office if it may be demanded by the bidder. Whenever there is a conflict, the provisions hereafter shall prevail over those in the Instructions to Bidders & General Conditions of Contract. The corresponding clause number of the ITB & GCC is indicated in parentheses.

BID DATA SHEET

INTRODUCTION	
Name of Procuring Agency:	BOARD OF INTERMEDIATE & SECONDARY EDUCATION, HYDERABAD – SINDH 0222-9260281-2
Name of Contract	Procurement / “Supply, Installation and Commissioning of Online Examination System Over the Cloud”
Bid Price and Currency	Prices quoted by the Bidder shall be <i>“fixed” and in “ Pak Rupees ”</i>
PREPARATION AND SUBMISSION OF BIDS	
Eligibility Criteria	a) Bidder should have own Project Team and operate own software company office in Pakistan b) Provide minimum 02 Purchase Orders of any web based solution along with completion certificates for the works completed. c) Bidder should have in-house product support team. Bidder should be providing ongoing support & customization of proposed solution.

	<p>d) Bidder should have an experience to work with any Government organization.</p> <p>e) Copy of NTN Certificate duly company stamped is required.</p> <p>f) Copy of GST Registration Certificate duly company stamped is required.</p> <p>g) Total of Annual Turnover for last three years should be at least 30.00 Million. The firm should provide a declaration bank account statement from July 2021 to June 2023 showing stated turnover. No any other document will be considered in place of the required documents, bidder should not attach, Sales Tax Acknowledgements, Challans, and Returns/summaries of un-relevant period.</p> <p>h) Copy of Income Tax returns duly e filed with FBR, for the tax years 2021, 2022 & 2023 duly company stamped is required.</p> <p>i) Affidavit confirming that the firm is not blacklisted by any Government, Semi Government or Autonomous Bodies, upon non judicial paper of Rs.100/- (in origin).</p> <p>j) Technical/Brochure of proposed solution.</p> <p>k) Previous successful projects of the bidding firm with duration of projects.</p> <p>l) The technical team capability of the software house with their experiences on different technology.</p> <p>m) Experienced to work with large web online portals and implementations.</p> <p>n) Describe & present the architect and workflow plan to implement the project.</p> <p>o) Describe and present the requirement of Web Infrastructure with information Security.</p> <p>p) Suggested front end and back end technology</p> <p>q) Any Enrollment, Registration and Examination System Experience and its implementation</p>
Amount of Bid Security	Five (05) percent of Bid Value/Price

Bid Validity Period	90 days
Number of Copies	One Original
Deadline for Submission of Bid	As notified in Notice Inviting Tender dated 14.09.2023 (up to 12:00 noon of 05.10.2023)
Opening of Bids	On 05.10.2023 at 01:00pm
Bid Evaluation	Lowest Evaluated Responsive Bid
OTHER TERMS & CONDITIONS	
	<p>a) In case of any unforeseen situation or government holiday resulting in closure of office on the date of opening, Bid shall be submitted / opened on next working day at the given time.</p> <p>b) The specification offered by the bidder(s) may vary from the required items because the requirements are mentioned on the basis of transitory survey, in such case(s) the Procurement Committee shall decide and recommend the offer(s) that may be suitable for procuring agency.</p> <p>c) Demonstration of required Software and/or Hardware may be made within the premises of Board for which supplier shall be liable to bring the same for the said purpose if need.</p> <p>d) The offered software development services should be durable, reliable and prime quality with software support and provided the complete source code including training of staff and admin or user manuals.</p> <p>e) Substandard and low quality services shall not be accepted and during and after deployment of software, the company products will be rejected and Bid Security shall be forfeited and the bidder may also be blacklisted.</p> <p>f) The bidder with the “Lowest Evaluated Cost” but not necessarily the “Lowest Submitted Price” shall be awarded the Procurement Contract preferably on quality cum rate basis.</p>

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| | <p>g) Tender documents can also be obtained through courier service, against Pay Order/B.C of Rs.2,000/- as bid document fee.</p> <p>h) BISE Hyderabad may reject all or any bid subject to the relevant provision of SPP Rules and may cancel the bidding process at any time prior to acceptance of bid or proposal as per Rule 25(1) of said rules.</p> <p>i) Incomplete, conditional bid/tender and without required extent of bid security in the specified form/format shall be rejected.</p> <p>j) Bidders are required to provide their valid e-mail Ids, complete postal address and contact numbers for effective and timely communication.</p> <p>k) Contract Agreement and Integrity Pact both are mandatory for successful bidder.</p> |
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EVALUATION CRITERIA

The clear statement / criteria for the Evaluation requirements are given in table below. Applicant firms who wish to apply for participating in this tendering process may prepare their profile exactly in accordance of the criteria set herein.

Technical Requirements				
S. No.	Evaluation Criteria	Documentary Evidence Required	Max. Marks	Classification of Marks
1	Service Level Agreement (SLA) of Software Management with any Private, Public Sector's Organizations and Autonomous bodies	Documentary evidence Must attach PO/Agreement (In active form)	Max Marks 100	5 or above =100 Marks 3 = 80 Marks 2 = 50 Marks Less than 2 = 5 Marks
2	Certified Developers, Certified SQA and DBA's	Certificates	Max Marks 50	5 or above= 50 Marks 4 = 40 Marks 3 = 30 Marks 2 = 20 Marks 1 = 10 Marks
3	The number of installations& Experience and Developments of Web Online Portals or similar type of Software Projects	List of deployed Projects in Pakistan with cliental.	Max Marks 30	Deployment and Installation of at least Projects 5 = 30 Marks 3 = 15 Marks 2 = 10 Marks Less than 2 = 5 Marks
4	Present the architect, workflow and web security of the project	The bidder should present and describe the project flow, security and implementation methodology	Max Marks 50	100% Compliance =50 Marks Less than 100% = 0 Marks
5	Experience of working with other Boards / Government Organizations	Documentary evidence Must attach PO / Agreement (In active form)	Max Marks 20	Yes = 20 Marks No = 0 Marks

S. No.	Evaluation Criteria	Documentary Evidence Required	Max. Marks	Classification of Marks
6.	Years of Establishment of bidders firm	Company Profile	Max Marks 10	10 Years = 10 Marks 7 Years = 7 Marks 5 Years = 5 Marks 3 Years = 3 Marks
7.	FBR and GST / SRB Registered Certification	Certificates required	Max Marks 10	Yes = 10 Marks No = 0 Marks
8.	Evidence of 3 Successfully completed projects	Certificates Required	Max Marks 10	Yes = 10 Marks No = 0 Marks
9.	Average Annual Turnover of the firm for the last 3 years	Audited Annual Financial Statement with single page consolidated report showing the last 3 years turn over	Max Marks 20	50 Million = 20 Marks 30 Million = 10 Marks Less than 15 Million = 5 Marks
<u>TOTAL MARKS = 300</u>			MARKS OBTAINED	

* Minimum marks required for Qualification = 75%

PREPARATION OF PROPOSAL

Technical Proposal:

- a) While preparing Technical Proposal Bidding firm(s) are expected to examine the documents comprising this invitation in detail, as material deficiencies in providing the information requested may result in rejection of the proposal.
- b) The Technical proposal should provide the information as mentioned in

Section-II.

- c) To establish the conformity of the items required though this Tender Document, the bidder shall furnish as part of its Technical Proposal, a detailed description of the Bidder's proposed items conforming in all material aspects with the Technical Requirements both overall as well as in regards to the performance of each proposed items.
- d) The bidder shall give the presentation for development of software system after submission of proposals as per their provided date from BISE Hyderabad regarding the requirements and according to eligibility criteria the firm shall be short listed.
- e) Please note that the technical proposal shall not include any financial information.

Financial Proposal:

- a) While preparing the financial proposal, bidders(s) are expected to take into account the requirement and conditions of the invitation documents. The Financial proposal should follow instructions as mentioned in Volume-II. It should provide lump sum costs of the requirements and support cost of one year separately associated with the assignment and all other out of pocket expenses.
- b) The Data sheet shows validity of bid up to 90 days. The BISE Hyderabad will make its best effort to complete technical clarification (if needed) within this period. Proposal validity may be extended with mutual consent.
- c) Rates should be inclusive of all government taxes/levies such as Income Tax, GST, FED, Stamp Duty Excise or what so ever may be in practice, and will be borne by the bidders in all aspect.

Bid Price / Payment:

- a) This Document showing itemized list along with specifications, quantity and detailed terms and conditions for bidding is available on provision of Rs. 2000/- (non-refundable) DD/P.O/Bank Challan in favor of Secretary, BISE, Hyderabad on any working day during office hours. Bidders may submit bids on Bid documents issued by procuring agency or downloaded from Authority's website along with tender fee (if any) by mail or by hand as per the schedule as prescribed in NIT.
- b) All payments will be made in Pak Rupees through crossed cheque after deduction of applicable taxes.
- c) The prices charged by the successful bidder for the required items along with accessories and associated services shall not vary from the prices as quoted in the financial proposal.
- d) Payment will be made after deliveries of requirements at consignee end, Installation, completion and inspection certificate for Quality/Quantity issued by the concerned officers.

Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of bid and BISE Hyderabad will in no case be responsible or liable for those costs, regardless of the outcome of the bidding process.

Language of Bidding:

The bid must be prepared and submitted in English language. Supporting documents and printed literature furnished by the bidder with the bid may be in another language as long as they are accompanied by an English translation of the pertinent passages. For the purpose of interpretation of the Bid, English language shall prevail.

Confidentiality:

- a) Information relating to the evaluation of proposals and recommendations concerning award shall not be disclosed to the bidder(s) who submitted the proposals or to other persons not officially concerned with the process, until the award of Contract is notified to the successful firm(s).
- b) Information related to the examination evaluation, comparison and post qualification of Proposals, and recommendation of contract award, shall not be disclosed to Bidders or any other persons.
- c) Any attempt by a Bidder to influence BISE Hyderabad in the examination, evaluation, comparison, and post – qualification of the Proposals or Contract award decisions will result in the rejection of its proposals.
- d) The bidder must provide an undertaking on judicial paper of Rs.200/- stating to maintain confidentiality and binding that the documents provided under this bid are correct and can be verified from concerned authorities.

Use of Documents and Information by external & internal Audit:

The Bidder shall permit BISE Hyderabad to inspect their accounts and records relating to the performance of the supplier and to have them audited by auditors appointed by the BISE Hyderabad, if so required by the BISE Hyderabad can directly contact the references given in the technical requirement as a part of TENDER DOCUMENT to verify the bidder's technical reasons supporting compliance.

Bid Validity:

- a) Bid shall remain valid and open for acceptance for a period of 90 days from the specified date of tender opening.
- b) In exceptional circumstances prior to expiry of the original bid validity period, the bidder may be requested in writing for an extension of the period of validity. A bidder agreeing to such request will not be permitted to modify his bid. A bidder not agreeing to such request may be withdrawn at the discretion of BISE Hyderabad.

Amendment of Bidding Documents:

- a) At any time prior to the deadline for submission of Bids, BISE Hyderabad may for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder can modify the Bidding Documents by making essential amendment.
- b) The amendment shall be the part of the Bidding Document, and will be notified in writing through letter through courier service or shall be made available on the BISE Hyderabad's website www.biseh.edu.pk or SPPRA website www.ppm.ppraisindh.gov.pk to all prospective bidders who have received the Bidding Documents.

Clarification(s) / Queries of Tender:

- a) The bidders are expected to carefully examine all instructions, forms and specifications in the Bidding Documents. Any Bidder in doubt as to the exact meaning or interpretation of any part of the Bidding Documents should immediately seek clarification in writing from the Secretary BISE Hyderabad.
- b) Requests for all clarifications with regard to the given specifications or other information contained in Tender Documents should come either through Courier to the Secretary BISE Hyderabad. Telephone enquiries may not be entertained.

Contradictions, Obscurities and Omissions:

The Bidder should likewise notify to the above of any contradictions, obscurities and omissions in the Bidding Documents if clarification of these is necessary for the clear understanding of the documents and for preparation of the Bid. Such enquires must reach to the Secretary, BISE, Hyderabad not later than _____.

Inspection:

- a) The **inspection** will be carried on the Services by representatives of the BISE Hyderabad (Inspection Committee) or concerned officers upon software and its features according to the requirements. It is Bidders responsibility to ensure quantity, correctness and adherence to the Specifications etc. any deviation will be rejected, and the supplying firm will be solely responsible for it.
- b) The **inspection report**, which, inter-alia, should indicate the condition, Quality as approved in inspection, features of software provided by the firm, shall be signed by the inspection committee or concerned officer.
- c) **Taking Over:** Upon delivery of software development services at BISE Hyderabad and after inspection, the concerned Officers of BISE Hyderabad will issue a **taking-over certificate** in respect of those software deployment received in acceptable condition.

Installation & Demonstration:

Installation

- a) After inspection and taking over of the concerned officer, as stated above, the **Contractor shall develop, install and deploy** the required software with features are to be install and run appropriately with all required services. For this purpose, the Contractor shall co-ordinate with the Secretary BISE Hyderabad, for making arrangements for proper installation of delivered goods/ Machinery equipment or services.

Completion Certificate:

After completion of the installation and demonstration, as stated above, a certificate is to be obtained by the Contractor from the Secretary BISE Hyderabad stating that the concerned officer has been satisfactorily installed and demonstrated by the Contractor.

Breach of Contract:

In case of breach of warranty / guarantee / Support or Contract, the **damages** suffered by the BISE Hyderabad shall be **recovered from the Contractor** out of any payment due to the Contractor and / or in accordance with the terms and conditions of the terms and conditions of the Contract Security / Performance Bond, without notice to the Contractor.

Contractor's Default Liability:

a) The BISE Hyderabad may upon written notice of default to the Contractor **terminate the Contract** in the circumstances detailed hereunder:

i) If in the judgment of the BISE Hyderabad, the Contractor fails to make delivery of the stores within the time specified in the Contract Agreement or within the period for which extension has been granted by the BISE Hyderabad; and

ii) If, in the judgment of the BISE Hyderabad, the Contractor fails to comply with any of the other provisions of the Contract.

b) In the event the BISE Hyderabad terminates the Contract, in whole or in part, as provided in above, the BISE Hyderabad reserves the right to **purchase**, on such terms and the conditions as it may deem appropriate, Stores similar to the one terminated, and the Contractor will be liable to the BISE Hyderabad for any additional costs for such **similar Stores**, and / or for liquidated damages for delay, as defined in Clause 1.18 (c) of the Conditions of Contract until such reasonable time as may be required for the final supply of the Stores.

c) If the Contract is terminated, as provided in above, the BISE Hyderabad, in addition to any other rights provided in this Clause, may require the Contractor to **transfer title** and deliver to the BISE Hyderabad under any of the following cases in the manner and as directed by the BISE Hyderabad.

d) Any **completed work or services**; and such **partially completed**, drawings, information and contract right (hereinafter called manufacturing material or services) as the Contractor has specifically produced or acquired for the performance of such parts of the Contract as has been terminated.

e) The BISE Hyderabad will **pay to the Contractor** the Contract Price for the completed delivered to and accepted/ certified/ inspected by the Inspection Committee or concerned officers of BISE Hyderabad and also for the delivered services.

f) In the event the BISE Hyderabad does not terminate the Contract, as provided above, the Contractor shall continue with the performance of his / her Contract, in which case the Contractor shall to liable to the BISE Hyderabad for **liquidated damages for delay** as set out in Clause 1.18 (c) until the Stores are accepted.

Partial Shipments or Services:

a) The BISE Hyderabad accepts partial shipments / Services and also allows partial payments subject to pre-information and agreement, by observing other terms and condition laid down in the contract agreement.

b) In the event any portion of the services supplied by the Contractor is found **defective or not up to the requirement**, or otherwise not in conformity with the requirement, the BISE Hyderabad shall have the right to reject or require, in writing, rectification of the Stores/concerned section. In the latter case, the Contractor shall with utmost diligence, and at his own expense, make good/services the defects so specified or replace the defective supplies or services. If the Contractor fails to rectify or replace the rejected supplies, the BISE Hyderabad may adopt any of the following options:

I. replace or rectify, at its option, such defective supplies or services and charge to the Contractor the excess cost occasioned to the BISE Hyderabad plus (15%) fifteen percent; or

II. Acquire the said Stores/Services at a reduced price considered equitable under the circumstances; or terminate the Contract.

Extension of Time:

If the completion of the Contract is delayed due to reason beyond the control of the Contractor, the Contractor shall without delay request the BISE Hyderabad, in writing, of his **claim** for an extension of time. The BISE Hyderabad on receipt of such request may agree to **extend the completion date** as may be reasonable in the circumstances of the case but without prejudice to other terms and conditions of the Contract.

Delay in Delivery – Liquidated Damages:

a) **Delivery plan:** The Responding Organization shall provide a detailed delivery, installation and configuration plan. Bidder should provide the life line, which should describe exactly what and how material will be delivered, installed and configured. Delivery plan should not be in generic terms but should be specific to this assignment, Activities, schedule should be in tabular form mentioning names of tasks, and sub tasks, start date, finish date resources and milestones will also be appreciated.

b) **The progress** of the Contract at any time should not be lagging behind the program agreed between the BISE Hyderabad and the Contractor, the BISE Hyderabad will notify the Contractor in writing and the Contractor shall there upon take such steps as he / she may deem fit to **expedite the progress** of the Contract. Non-issuance of this notice by the BISE Hyderabad shall not in any way absolve the Contractor of the liquidated damages as stated in below section (c).

c) If the Contractor **fails to complete the Contract**, in full or part, within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as **liquidated damages**, equal to **(1%) of the Contract price** of each unit of the delayed Stores for each calendar week of delay subject to the maximum of five percent (5%) of the Contract Price of the unit or units so delayed, and such deduction shall be in full satisfaction of the Contractor's liability for the said failure.

Post Deployment Support & Services or Warranty:

Bidder is required to provide support services till 360 days from the date of supply or delivery of software, in this regard an under-tacking on company letter head is required to be submitted along with the technical proposal.

Training:

The bidder should provide a comprehensive training plan which should be flexible to cater to the current requirements. It should encompass all ranges of users i.e. functional, operational and managerial etc. Training Documents such as schedules, training material must be provided with the technical proposal.

Signing of Contract:

Within (15) working days after notification to the successful bidder regarding acceptance of his bid and submission of 5% Performance Security in shape of DD/Pay order or Bank Guarantee, the contract incorporating all agreements between the parties will be signed. The Contract agreement will be affixed with revenue stamps @ 0.35% of contract value as per stamp act. For sample of agreement refer to page No. _____.

Post Letter of Intent/ Contract Acceptance:

Before signing of formal contract, a letter of intent will be issued by the BISE Hyderabad to the lowest best evaluated bidder. In response to letter of intent (LOI) the bidder will have to submit its letter of consent for acceptance of the LOI within the prescribed time period as per SPPRA, in case letter of acceptance is not received within stipulated time framework it will be assumed that first lowest evaluated or technical qualify bidder is not interested in signing the formal contract with this Board. In that situation the LOI will be issued to the second lowest evaluated or technical qualify bidder and the earnest money of first evaluated bidder will be forfeited. This condition will also apply on the second and third evaluated bidder (as the case may).

SECTION – II

TECHNICAL PROPOSAL

REQUIREMENTS

Sr. No.	Name of the Article & Description	Qty
1	<p>Main Overview: This system will consist of several industry standard modules. All modules are broken down into 3 tiers, 1.Online 2.Offline and 3.Cloud. You are requested to please read them carefully as they may look similar but will have entire different approach to comply with.</p> <ol style="list-style-type: none"> 1. Online approval workflow system 2. Online audit log customization management system 3. Online audit log management system 4. Online audit trail management system 5. Online authorizations management system 6. Online data flow system 7. Online data verification system 8. Online document Management system 9. Online employee management system 10. Online enrollment system 11. Online institution portal 12. Online institutions management system 13. Online reports system 14. Online roles management system 15. Online student management system 16. Online tasks management system 17. Offline data integration system 18. Offline data rectification system 19. Offline data backup system 20. Offline examination management system 21. Offline examination slip system 22. Offline examination student allocation system 23. Offline examination student enrollment system 24. Offline reports system 25. Offline secure data restoration system 26. Offline user management system 27. Cloud data verification portal 28. Cloud examination result portal 29. Cloud parent portal 30. Cloud student portal 31. Inter-portal data security system 32. Inter-portal integration system <p>As well as proposed system may support industry standard information security systems which will consist of</p> <ol style="list-style-type: none"> 1. Offline 2-factor authentication system 2. Offline 2-factor authentication verification system 	01

3. Offline IP security policy management system
4. Offline remote device monitoring system
5. Online 2-factor authentication system
6. Online 2-factor authentication verification system
7. Online blocking system
8. Online Dos prevention system
9. Online geo-location restriction policy management system
10. Online intelligent virtual software firewall system
11. Online IP security policy management system
12. Online Public key infrastructure management system
13. Online Public key infrastructure monitoring system
14. Online remote device management system
15. Online request queuing system
16. Online RSA/SHA 2048 bit encryption system
17. Online secure data transaction system
18. Online secure PIN management system
19. Online secure socket tunneling system

As well as other required features and system to ensure data security.

This system will also integrate with all available Telco to provide multi-factor security measures therefore this system will also consist of Offline Telco management system.

Required Modules

1. Enrollment Summary
2. SSC-I Enrollment Entry
3. HSC-I Enrollment Entry
4. HSC-I Humanities Enrollment
5. Enrollment Deleted Summary
6. Enrollment Delete Record
7. Enrollment Approve Record
8. Enrollment Bulk Approve
9. Enrollment Challan Summary
10. Enrollment Challan Print
11. Enrollment Challan Generate
12. Enrollment Challan Delete
13. Enrollment Seat List
14. Enrollment Cover Letter Print
15. Enrollment Form Print Single Record
16. Enrollment Form Print Bulk Records
17. Enrollment Card Print Single Record
18. Enrollment Card Print Bulk Records
19. Enrollment Edit Record
20. Enrollment Update Picture
21. Enrollment Summary Report
22. Enrollment Details Report
23. Enrollment Status Summary Report
24. Examination Summary
25. SSC-I Science Data Call From Enrollment Entry
26. SSC-I General Examination Entry
27. SSC-I Science Manual Examination Entry

28.	SSC-II Data Call Entry	
29.	SSC-II Oriental Entry	
30.	SSC-II Package Entry	
31.	HSC-I Data Call From Enrollment Entry	
32.	HSC-I Humanities Examination Entry	
33.	HSC-II Data Call Entry	
34.	HSC-II Manual Examination Entry	
35.	HSC-II Humanities Examination Entry	
36.	HSC-II Oriental Examination Entry	
37.	HSC-II Package Examination Entry	
38.	HSC-II Group Change Examination Entry	
39.	HSC-II Faculty Change Examination Entry	
40.	Examination Form Delete Record	
41.	Examination Form Edit Record	
42.	Examination Form Approve Record	
43.	Examination Form Bulk Approve	
44.	Examination Form Picture Update	
45.	Examination Form Print Single Record	
46.	Examination Form Print Bulk Records	
47.	Examination Seat List Print	
48.	Examination Cover Letter Print	
49.	Examination Challan Summary	
50.	Examination Challan Print	
51.	Examination Challan Generate	
52.	Examination Challan Delete	
53.	Duplicate Examination forms data	
54.	Examination Fictitious Code Allocation System	
55.	Examination Fictitious Code Delete System	
56.	Examination Packet Code Allocation System	
57.	Examination Gazette Processing Preview System	
58.	Examination Gazette Processing System	
59.	Examination Schedules Summary	
60.	Examination Schedules Add Entry	
61.	Examination Schedules Edit Entry	
62.	Examination Schedules Time Table SSC	
63.	Examination Schedules Time Table HSC	
64.	Examination Schedules Publish All	
65.	Examination Schedules Publish New Records only	
66.	Examination Center Summary	
67.	Examination Center Add Entry	
68.	Examination Center Edit Entry	
69.	Examination Center Printing	
70.	Examination Allotment Summary	
71.	Examination Allotment Add	
72.	Examination Allotment Edit	
73.	Examination Allotment List Report	
74.	Examination Allotment Report for SSC	
75.	Examination Allotment Report for HSC-I	

76.	Examination Allotment Report for HSC-II	
77.	Examination Allotment X Report	
78.	Examination Slip Printing for SSC-I	
79.	Examination Slip Printing for SSC-II	
80.	Examination Slip Printing for HSC-I	
81.	Examination Slip Printing for HSC-II	
82.	Examination Center Slip Printing for SSC-I	
83.	Examination Center Slip Printing for SSC-II	
84.	Examination Center Slip Printing for HSC-I	
85.	Examination Center Slip Printing for HSC-II	
86.	Subject Allocation Institute Wise Report	
87.	Blank Ledger Report	
88.	Blank Ledger by Roll No Report	
89.	Proofing Ledger Report	
90.	Final Ledger Report	
91.	Final Ledger by Roll No Report	
92.	Award List Report	
93.	Award List for Practical Report	
94.	Batch Award List Report	
95.	Award List by Fictitious Code Report	
96.	Packet Key List report	
97.	Missing List Subject Wise Report	
98.	Missing List Packet Wise Report	
99.	Missing Packet List Report	
100.	Missing List Subject Wise Entry System	
101.	Search Fictitious Code System	
102.	Gazette Report	
103.	Gazette Printing Report	
104.	Institute Wise Result Report	
105.	Statistical Result I Report	
106.	Statistical Result II Report	
107.	Subject Wise Grade Report	
108.	Missing Subject List Edit	
109.	Marks Certificate for SSC-I	
110.	Marks Certificate for SSC-II	
111.	Marks Certificate for HSC-I	
112.	Marks Certificate for HSC-II	
113.	Pass Certificate for SSC-II	
114.	Pass Certificate for HSC-II	
115.	Pacca Certificate for SSC-II	
116.	Pacca Certificate for HSC-II	
117.	Candidate Data Position Wise Report	
118.	Candidate Data Year Wise Report	
119.	Candidate Data Group Wise Report	

120.	Candidate Data Percentage Wise Report	
121.	Candidate Data Private Sector Report	
122.	Result Entry by Award List	
123.	Result Entry by Packet Code for Practical Subjects	
124.	Result Entry by Roll No	
125.	Result Entry by Award List - Edit	
126.	Result Entry by Packet Code for Practical Subjects - Edit	
127.	Result Entry by Roll No - Edit	
128.	Result View System	
129.	Result Edit System	
130.	Search Code System	
131.	Posting of Absentee/UMeans System	
132.	Result withheld by Roll No System	
133.	Investigation Department - Umeans Summary	
134.	Investigation Department - Umeans New Entry	
135.	Investigation Department - Umeans Edit Entry	
136.	Investigation Department - Umeans Report	
137.	Investigation Department - Umeans Move to Examination System	
138.	Fee Schedules Summary	
139.	Fee Schedules Add Entry	
140.	Fee Schedules Edit Entry	
141.	Fee Schedules Delete Entry	
142.	Supplementary Summary	
143.	Supplementary Create SSC-II	
144.	Supplementary Create HSC-II	
145.	Supplementary Seat List Print	
146.	Supplementary Form Print Single Record	
147.	Supplementary Form Print Bulk Records	
148.	Supplementary Forms Edit Entry	
149.	Supplementary Approve Forms	
150.	Supplementary Bulk Approve Forms	
151.	Supplementary Slip SSC-II	
152.	Supplementary Slip HSC-II	
153.	Supplementary Center Slip SSC-II	
154.	Supplementary Center Slip HSC-II	
155.	Oriental Languages Summary	
156.	Oriental Languages Add Entry	
157.	Oriental Languages Edit Entry	
158.	Oriental Languages Delete Entry	
159.	Oriental Languages Approve Entry	
160.	Oriental Languages Seat List	
161.	Oriental Languages Form Print	
162.	Oriental Languages Slip	

163.	Oriental Languages Center Slip	
164.	HSC-II IT Examination Summary	
165.	HSC-II IT Examination Add Entry	
166.	HSC-II IT Examination Edit Entry	
167.	HSC-II IT Examination Delete Entry	
168.	HSC-II IT Examination Print Entry	
169.	HSC-II IT Examination Approve Entry	
170.	HSC-II IT Examination Slip	
171.	HSC-II IT Examination Center Slip	
172.	EC Summary	
173.	EC SSC-II Entry	
174.	EC HSC-I Entry	
175.	EC HSC-II Entry	
176.	EC Form Print Record	
177.	EC Edit Record	
178.	EC Approve Record	
179.	EC Certificate Printing	
180.	EC Deleted Summary	
181.	EC Deleted Record	
182.	Migration Certificate Summary	
183.	Migration Certificate SSC-I Entry	
184.	Migration Certificate SSC-II Entry	
185.	Migration Certificate HSC-I Entry	
186.	Migration Certificate Form Print Record	
187.	Migration Certificate Edit Record	
188.	Migration Certificate Approve Record	
189.	Migration Certificate Printing	
190.	Migration Certificate Deleted Summary	
191.	Migration Certificate Deleted Record	
192.	Notification Summary System	
193.	Notification Add Entry	
194.	Notification Edit Entry	
195.	Notification Delete Entry	
196.	Student Search by Particulars	
197.	Student Search by Roll No	
198.	Student Search by Roll No - Read Only	
199.	Student Search Top 10	
200.	Allotment Search	
201.	SMS Gazette	
202.	SMS Institutes	
203.	Users System	
204.	User Add Entry	
205.	User Edit Entry	
206.	User Delete Entry	

- | | | |
|------|------------------------|--|
| 207. | User Roles Entry | |
| 208. | Roles System | |
| 209. | Permissions System | |
| 210. | Institutes System | |
| 211. | Institute Add Entry | |
| 212. | Institute Edit Entry | |
| 213. | Institute Delete Entry | |
| 214. | Institute Users Entry | |
| 215. | Cities Summary | |
| 216. | Cities Add Entry | |
| 217. | Cities Edit Entry | |
| 218. | Cities Delete Entry | |
| 219. | Districts Summary | |
| 220. | Districts Add Entry | |
| 221. | Districts Edit Entry | |
| 222. | Districts Delete Entry | |
| 223. | Session Summary | |
| 224. | Session Add Entry | |
| 225. | Session Edit Entry | |
| 226. | Session Delete Entry | |
| 227. | Classes Summary | |
| 228. | Classes Add Entry | |
| 229. | Classes Edit Entry | |
| 230. | Classes Delete Entry | |
| 231. | Groups Summary | |
| 232. | Groups Add Entry | |
| 233. | Groups Edit Entry | |
| 234. | Groups Delete Entry | |
| 235. | Subjects Summary | |
| 236. | Subjects Add Entry | |
| 237. | Subjects Edit Entry | |
| 238. | Subjects Delete Entry | |
| 239. | Log Summary | |
| 240. | Log Add Entry | |
| 241. | Log Edit Entry | |
| 242. | Log Delete Entry | |
| 243. | Print Log Summary | |
| 244. | Print Log Add Entry | |
| 245. | Print Log Edit Entry | |
| 246. | Print Log Delete Entry | |

This system will be a hybrid solution which should support running in 4 modes.

1. Online / Public
2. Online / Private
3. Offline
4. Cloud

The software vendor will need to fully understand and apply only if they have already worked in such hybrid solutions infrastructure system and who has full experience dealing with challenges of multi-architectural platform.

Software Architecture

This system will be architected using service oriented architecture and will consist of windows communication foundation based private services as well as representational state transfer supported secure data gateways.

The software vendor will need to be fully experienced working with secure data gateways and apply only if they have already worked on such gateways in the past. They should also have hands-on expertise on windows communication foundation based private services.

Technology Requirements

Framework: Microsoft .Net Framework.

Scripting: Microsoft C# .Net.

Data Store: Microsoft SQL Server.

Salient Features

- Combination of web base application, distributed application and cloud application
- QR based enrollment and verification
- Web/Browser based reports results
- Upgradable customizable and integrate-able with expended modules
- Simple back up procedure

Application Security

The software should be secure free from external or internal men mishandling, providing multilayer security such as

- (1) Encrypted User ID Password for login
- (2) Authentication and Authorization system
- (3) Only authorized terminals should be able to login
- (4) Session expiration policies
- (5) User log report
- (6) Proven Database security
- (7) Authorization Process

So that a single user should not be able to temper the database.

Software should be restricted only authorized users who will have access to work, view or print selected forms, reports etc.

Customization

Software must be prone to any changes and it can handle new requirements and up-gradations.

Audit Trail

Through the application we can search history option of any modified record, and should be able to see the changes for Audit purpose.

Reporting

- Application include different interface for different kinds of reports which contains selection criteria to select between different fields.
- Report should be printed as sorted out according to user inputs.
- Report should be exported in PDF, word and excel format.

Training User Manuals

- Training of application is required so as end user can use it easily
- User manuals should also be provided

Product Functions

- Enrollment of institutions
- Enrollment of students
- Data verification by student
- Data rectification
- Data integration in examination system
- Schedule of examination
- Exam slips
- The examination
- Results preparation
- Results announcement

Reports

This section gives overall summary in a report manner. This system will require dedicated reports portal for multiple reports. Reports should be printable and exportable in PDF, Word, Excel and other formats.

Deployment

1. The software will be hosted in local server available in the Data Center of BIE Karachi. The deployment services will be provided by the vender.
2. The board's Management will provide access to the qualified vender to install, deploy the software.
3. The software must be delivered and deployed within 132 work days from the date of signing of the Contract.

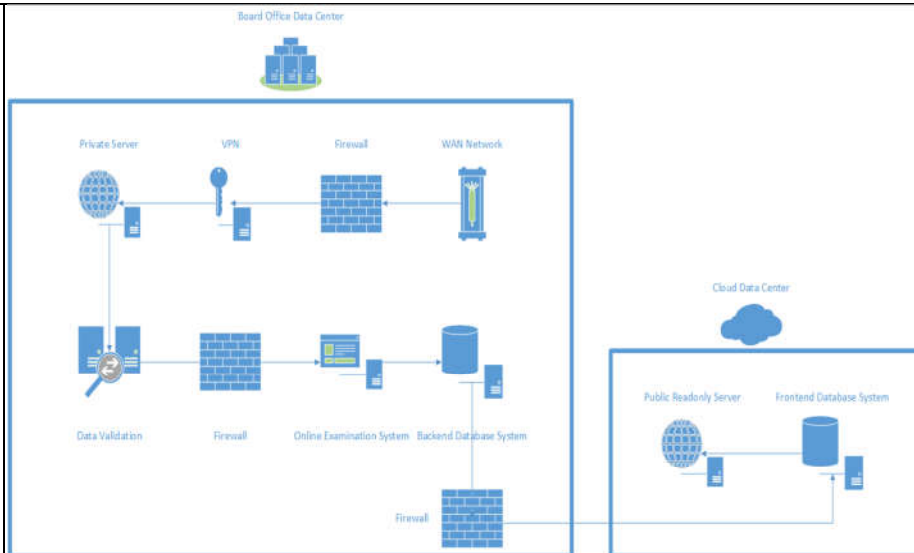


Figure 1.0 – Proposed deployment topology

Service & Support

1. The qualified vender would be responsible to provide free service and support till one year after signing of the contract.
2. The qualified vender will make the software bug free and do customization as per requirements till one year after signing of the contract.

Digital QR Code Branding

The main reports and certificates such as enrollment form, enrollment card, exam form, exam slip / admit card, marks certificate, pass certificate etc should incorporate digital QR code based branding to match to the latest technology advancements and make our board future ready.

50 mbps CIR circuit connectivity

The system will also require around 50 mbps CIR circuit connectivity over the optical fiber based systems.

TECHNICAL PROPOSAL

SUPPLY, INSTALLATION AND COMMISSIONING OF ONLINE EXAMINATION SYSTEM OVER THE CLOUD

Last Date and time for submission: -

Upto 12:00 noon dated 05.10.2023

Opening: -

At 01:00pm dated 05.10.2023

Submitted by M/s. _____

Item No.	ITEM	DESCRIPTION/SPECIFICATIONS	QTY
2.	Desktop Computers New	Desktop Computer System Intel Core i7 11 th Generation with Latest Configuration 32GB RAM 1TB HDD 24-Inch LED Screen Keyboard and Mouse Free DOS Brand: HP/Dell with or Equivalent One year Standard Warranty	15 Nos.
3.	Laptop Computers New	Laptop Computer System Intel Core i7 11 th Generation with Latest Configuration 16GB RAM 1TB HDD 15-Inch LED Screen Integrated Keyboard and Mouse Free DOS Brand: HP/Dell with or Equivalent One year Standard Warranty	05 Nos.
4.	UPS 10 KVA	Capacity:10 KVA AC Voltage regulation Short Circuit protection Overload protection Battery Overcharge protection Surge Protection Over discharge Protection Output frequency 50/60Hz +/-3Hz Pure Sine Wave Input Frequency 40-70 Hz (auto sensing) Maintenance free sealed Lead Acid battery with suspended electrotype: leak-proof 3 Year Support & Warranty Complete Installation/Wiring	01 No.

5.	OMR Scanner	<p>Throughput Speeds * 70 ppm / 120 ipm Feeder Capacity Up to 80 sheets of 80 g/m² (20 lb.) paper Connectivity USB 3.2 Gen 1x1, USB 2.0 compatible & Wireless Network 802.11 b/g/n and 10/100 Ethernet Maximum Document Size 216 mm x 3000 mm (8.5 in. x 118 in.) Minimum Document Size 52 mm x 52 mm (2.05 in. x 2.05 in.) Paper Thickness & Weight 27–433 g/m² (7.2–160 lb.) paper Hard cards thickness up to 1.25 mm (0.05 in.)</p> <p>Maximum Optical Resolution 600 dpi Accessories & Consumables Stacking Deflector Accessory Integrated A4/Legal Flatbed KODAK A3 Size Flatbed Accessory Passport Flatbed Accessory Carrier Sleeves (5 PACK) Feed Roller Kit Pre-Separation Pad & Roller Kit</p> <p>Acoustical Noise Off or Ready mode: < 20 dB(A) Scanning: <50 dB(A)</p> <p>Approvals and Product Certifications As per standards</p> <p>Barcode Reading Codabar Code 128, Code 3 of 9, EAN-13, EAN-8, Interleaved 2 of 5, PDF417, QR, UPC-A, UPC-E</p> <p>Bundled Software Capture Pro Limited Edition Smart Touch</p> <p>Dimensions & Weight Weight: 3.3 kg (7.2 lbs.) Depth: 204 mm (8.0 in.), not including input tray and output tray. Width: 312 mm (12.3 in.) Height: 182.5 mm (7.2 in.), not including input tray Depth with Input Tray: 269 mm (10.6 in.) Height with Input Tray: 231.6 mm (9.1 in.)</p> <p>Electrical Requirements 100-240 V (International); 50-60 Hz Environmental Certification 2008 EuP ENERGY STAR Qualified EPEAT Gold</p> <p>File Format Outputs BMP, JPEG, Single-page TIFF, Microsoft Excel, Microsoft Word, Multipage TIFF, PDF, Text searchable PDF, PNG, RTF</p> <p>Image Output Resolution Options Up to 1200 dpi Network Protocols DHCP (or static IP) TCP/IP</p> <p>Operating System Compatibility WINDOWS Server 2016 X64 Editions WINDOWS Server 2012 R2 X64 Editions WINDOWS 8.1 (32-bit and 64-bit) WINDOWS 10 (32- and 64-bit) WINDOWS 11 (64 bit) Ubuntu 16.04 64-bit and 32-bit Ubuntu 18.04 64-bit Ubuntu 20.04 64-bit Open SUSE 11.3 (i586) 32-bit Open SUSE LEAP 15.1 64-bit SUSE Linux Enterprise Desktop 12.2 64-bit SUSE Linux Enterprise Desktop 15 SP1 for 64-bit WINDOWS XP SP3 (32-bit and 64-bit) (available only in China)</p> <p>Operating Temperature / Operating Humidity Operating Temperature 10-35° C (50-95° F) Operating Humidity 15% - 80% RH</p>	01 No.
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		<p>Operator Control Panel 3.5 inch (89 mm) graphical color touch screen LCD with operator control buttons</p> <p>Optional Software Capture Pro Software Info Input Solution</p> <p>Paper Handling (SurePath) Features Controlled stacking. Enhanced jam recovery Intelligent Document Protection Interactive multifeed with image display on host Length Multifeed Detection Ultrasonic Multifeed Technology Operator overrides</p> <p>Perfect Page Image Enhancement Software Adaptive threshold processing Add or remove border. Aggressive cropping Auto white balance Autocrop Automatic Brightness/Contrast Automatic color balance Automatic color detection Automatic orientation Automatic photo cropping Background color smoothing Barcode reading Black and white image segmentation Brightness and contrast adjustment Content-based blank page removal Deskew Digital stamping Dual stream scanning Electronic color dropout Enhanced color adjustment Enhanced color management Fixed cropping Fixed thresholding Halftone removal Image edge fill Image hole fill Image merge Image split i Thresholding Lone Pixel Noise Removal</p> <p>Long document scanning (up to 3000 mm/118 in.) Majority rule noise removal Multicolor dropout Multiple document output Orthogonal rotation Output Compression-CCITT Group IV, JPEG, Uncompressed</p> <p>Output Relative cropping Sharpening Sleeve scanning (for scanning A3 documents or multiple small documents) Streak filtering</p> <p>Power Consumption Running: less than 36 watts. Sleep Mode: less than 5.0 watts Standby: less than 0.5 watts</p>	
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		<p>Recommended Daily Volume Up to 9,000 pages per day. Recommended PC Configuration Minimum PC configuration with scanning application: Intel Core i3 processor or faster, at least 4 GB RAM (Microsoft Windows) Scanning Technology Dual RGB LED Illumination CIS (CMOS); Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3); color capture bit depth is 48 bits (16 x 3) Standard Software and Drivers Citrix certified. KOFAX certified. ISIS Drivers LINUX (TWAIN and SANE) Drivers TWAIN Drivers WIA Drivers</p>	
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INSTALLATION SERVICES & LICENSES

NO.	ITEM & DESCRIPTION	UNIT
6.	Microsoft Windows Professional 11	50 Nos.
7.	Microsoft Office Professional	50 Nos.
8.	Antivirus for workstations	50 Nos.
9.	Complete installation and wiring of the Lab computers (20 desktop computers)	01 No.
10.	Online System for institutes	01 No.
11.	Core Examination System	01 No.
12.	OMR System for examination	01 No.
13.	Mobile App for BISE Hyderabad	01 No.
14.	SMS Integration for results announcements	01 No.
15.	Remote Booth for duplicate transcript	01 No.
16.	Home delivery of degree	01 No.
17.	Complete Installation	01 Job.
18.	Training of concerned Staff	01 Job.
19.	Source Code	01 Job.
20.	Accounts & Finance Management System	01 Job.
21.	Human Resources Management System	01 Job.

CERTIFICATE

IF PROVIDED INFORMATION FOUND FALSE, THE SERVICES OF THE FIRM WILL BE TERMINATED WITHOUT ASSIGNING ANY REASON AND MAKING ANY REFUND / PAYMENT. FURTHER THE AGENCY / FIRM WILL BE BLACKLISTED.

It is hereby certified that the terms and conditions have been read, agreed upon and signed.

M/s. _____

Contact Person: _____

Address: _____

Tel#: _____ Fax#: _____

Mobile#: _____ Email: _____

Dated: _____.

Stamp & Signature

AGREEMENT

This agreement is made on the _____ day of _____ 2023 between Board of Intermediate & Secondary Education, Hyderabad of the one part:

WHEREAS the procuring agency invited bids for procurement / Supply, Installation and Commissioning of Online Examination System Over the Cloud” and has accepted a bid by the M/s. _____ in the sum of Rs. _____/= (Rupees _____).

NOW THIS AGREEMENT WITNESSES AS FOLLOWS:

In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract referred to in the Advance Acceptance Issued vide Letter No. _____, dated _____ (copy attached).

In consideration of the payments to be made by the Board of Intermediate & Secondary Education, Hyderabad to the M/s. _____, as hereinafter mentioned in the Terms & Conditions which is already signed by the bidder, the bidder hereby covenants with the procuring agency to provide the “Supply, Installation and Commissioning of Online Examination System Over the Cloud” and to remedy defects therein in conformity in all respect with the provisions of the Contract.

As bidder, I am completely satisfied & agreed with the award items and do not have any grievances.

AND

Mr. _____, S/o. _____,
Bearing CNIC No. _____ Resident of House NO. _____
_____ Sole proprietor of M/s. _____
_____ Having their registered office at _____
_____ Which expression wherever the contest
so admits shall mean and include their executors, successors-in-interest, and assign of the OTHER
PART.

WHEREAS the BISE Hyderabad is desirous of procurement / Supply, Installation and Commissioning of Online Examination System Over the Cloud” availing from a competent firm dealing in IT services for Development of Software and Installation of Online Management System for Affiliation / Recognition, Enrolment, Registration, Permission and Examinations Accounts with verification AND WHEREAS the “Contractor” has offered for as competent firm to carry out and perform the above said.

NOW IT IS HEREBY AGREED& DECLARED BY AND BETWEEN THE PARTIES AS FOLLOWS:

ARTICLE –I

DUTIES & SCOPE OF WORK

1.1 Requirement.

Sr. No.	Description	Total Contract Amount
1		

1.2 “THE SERVICE PROVIDER” agrees to provide services to “BISE, Hyderabad” whenever and wherever form is required as per the terms & conditions of this Agreement.

1.3 “THE SERVICE PROVIDER” will coordinate with I.T. Manager, of the “BISE, Hyderabad” who will assist “THE SERVICE PROVIDER” in Supervision of proposed work.

1.4 “THE SERVICE PROVIDER” hereby agrees to accept variation, if occurred, in scope of professional services and works with mutual consent on acceptable cost/price/charges/amount inclusive of all taxes and levies.

1.5 All logistic charges will be borne by “THE SUPPLIER”

ARTICLE –II

SCOPE OF PROFESSIONAL SERVICES:

2.1 “THE SERVICE PROVIDER” hereby agrees and acknowledges for the periodic supervision of the work and to check the execution of work in accordance with the Description & Specification.

2.2 “THE SERVICE PROVIDER” hereby agrees and acknowledges the acceptance of attending the meetings with the Computer Programmer “BISE, Hyderabad” as & when required.

2.3 “THE SERVICE PROVIDER” hereby agrees to provide services as per work scope provided in the bidding documents.

ARTICLE –III

REMUNERATION

3.1 The cost offered by the Services Provider is Rs. _____/- (Rupees ----- only) (inclusive of all taxes) in connection with supply, installation and commissioning of Online Examination system Over the Cloud” vide Letter No. BISE/STORE/HYD/- _____ dated _____

3.2 Liquidity damages as per SPPRA Rules.

3.3 One Year Free support will be provided by the “Service Provider”.

3.3 Payment will be made as per provisions of SPPRA Rules.

3.4 Performance Security 05% of total amount of work order should be submitted in shape of Pay Order before signing of Contract Agreement.

3.5 Stamp Duty @ 0.35% of the cost of transaction / work order will be deposited in Government treasury by the Service Provider. This paid Stamp Duty challan would be submitted along with the Bill / Invoice.

3.6 Tax(es) Challan(s) / Levy(ies), If any, on additional will be paid / borne by the Service Provider as per SRO Notification.

ARTICLE –IV

ARBITRATION

4.1 In case of any dispute, difference or and question which may at any time arise between the parties hereto or any person under them, arising out in respect of this letter of intent or this subject matter thereof shall be referred to the Chairman BISE, Hyderabad for arbitration / settling of the dispute, failing which the decision of the court law in the jurisdiction of Hyderabad binding to the parties. The Arbitration proceedings will be governed by the Arbitration Act, 1940 and the Substantive and procedural law of Pakistan. The venue shall be Hyderabad.

ARTICLE –V

TERMINATION

5.1 “BISE, Hyderabad” may terminate this agreement if the job is not executed according to the requirement at any time after issuing a 15 day’s notice.

ARTICLE –VI

INDEMNITY

6.1 “THE SERVICE PROVIDER” in its individual capacity shall indemnify and keep “BISE, Hyderabad” and any person claiming through BISE, Hyderabad fully indemnified and harmless from and against all damages, cost and expenses caused to or incurred by “THE SERVICE PROVIDER”, as a result of any defect in the title of BISE, Hyderabad or any fault, neglect or omission by the “THE SERVICE PROVIDER” which disturbs or damage the reputation, quality or the standard of service provided by the “BISE, Hyderabad” and any person claiming through the BISE, Hyderabad.

ARTICLE –VII

NOTICE

7.1 Any notice given under this AGREEMENT shall be sufficient if it is in writing and if sent by courier or registered mail.

ARTICLE –VIII

INTEGRITY PACT

8.1 The intention not to obtain the procurement / work of any Contract, right, interest, privilege, or other obligation or benefit from the BISE, Hyderabad or any administrative or financial offices thereof or any other department under the control of the BISE, Hyderabad through any corrupt practice(s).

8.2 Without limiting the generality of the forgoing the M/s. _____, represents and warrants that it has fully declared the charges, fees, commission, taxes, levies etc, paid or payable to anyone and not given or agreed to give and shall not give or agree to give anyone within the BISE, Hyderabad directly or indirectly through any means any commission, gratification, bribe, gifts, kickback whether described as consultation fee or otherwise, with the object of obtaining or including the procurement or service contract or order or other obligations whatsoever from the BISE, Hyderabad, except that which has been expressly declared pursuant hereto.

- 8.3 M/s. _____ accepts full responsibility and strict liability for making any false declaration / statement, not making full disclosure, misrepresenting facts or taking any action likely to degrade the purpose of declaration, representation and warranty. It agrees that any contract / order obtained aforesaid shall without prejudice to any other right & remedies available to the BISE, Hyderabad under any law, contract, or other instrument, be stand void at the discretion of the BISE, Hyderabad.
- 8.4 Notwithstanding any right and remedies exercised by the BISE, Hyderabad in this regard, M/s. _____ agrees to indemnify BISE, Hyderabad for any loss or damage incurred by it on account of its corrupt business practice & further pay compensation to BISE, Hyderabad in any amount equivalent to the loss of any commission, gratification, bribe, gifts, kickback given by the M/s. _____ as aforesaid for the purpose of obtaining or inducing procurement / work / service or other obligation or benefit in whatsoever from the BISE, Hyderabad.

ARTICLE -IX
MISCELLANEOUS

- 9.1 Any addition & alteration (s) made for item(s) as required by BISE, Hyderabad on the basis of the work in progress which entail extra time & labor and material on part of the supply, shall not be charged separately / extra on 'Quantum Merit' basis before & on final material handed over to the "BISE, Hyderabad". After FINALIZATION OF SAMPLE, if any alteration(s), arise charges will be paid on mutually agreed upon.
- 9.2 The terms & conditions of this AGREEMENT have been read over to the parties which they admit to be correct and abide by the same.
- 9.3 The contract will be effective from the date of issue of Purchase Order.
- 9.4 All terms and conditions of tender vide # BIE/AG/L&N/266 /2022 will be the integral part of this agreement and can't be revoked.

IN WITNESS WHEREOF both the parties hereto have set & subscribed their respective hands to this agreement at Hyderabad on the date as mentioned above.

Secretary
BISE, Hyderabad

Proprietor M/s. _____
CNIC _____

WITNESSES:

1. Name & Signature
CNIC NO. _____

2. Name & Signature
CNIC NO. _____

CERTIFICATE

I / We have carefully read & understood the Terms & Conditions whatever has been stated herein the enclosed pages and abide to the same. I/We guarantee to supply/deliver/install the items exactly in accordance with the requirements and enclosed the Bid Security payable to Board of Intermediate & Secondary Education, Hyderabad.

AUTHORISED SIGNATURE WITH DATE: _____
NAME OF FIRM: _____
ADDRESS OF FIRM: _____
FULL NAME OF CONCERNED PERSON: _____
CNIC NUMBER: _____
POSITION HELD IN: _____
PHONE NUMBER(S): _____
MOBILE NUMBER(S): _____
FAX NUMBER(S): _____
NATIONAL TAX NUMBER: _____
GENERAL SALES TAX NUMBER: _____

STAMP OF THE FIRM: _____
PAY ORDER NUMBER: _____
BANK & BRANCH NAME: _____
DATED: _____
FOR RUPEES: _____

DRAWN: _____ as Bid Security is enclosed herewith.

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

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

[*name of Contractor*] 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 GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*Name of Contractor*] accepts 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 rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

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

Name of Procuring Agency:

Name of Contractor:

Signature:

Signature:

[Seal]

[Seal]

**SUPPLY, INSTALLATION AND COMMISSIONING OF
ONLINE EXAMINATION SYSTEM OVER THE CLOUD**

PART - V
FINANCIAL PROPOSAL

FINANCIAL PROPOSAL

BILL OF QUANTITY

Last Date and time for submission: -

Upto 12:00 noon dated 05.10.2023

Opening: -

At 01:00pm same day

Submitted by M/s. _____

REQUIREMENTS

Sr. # o.	Name of the Article & Description	Qty	Rate Including Tax	Amount Including Tax
1.	<p>Main Overview: This system will consist of several industry standard modules. All modules are broken down into 3 tiers, 1.Online 2.Offline and 3.Cloud. You are requested to please read them carefully as they may look similar but will have entire different approach to comply with.</p> <ol style="list-style-type: none">1. Online approval workflow system2. Online audit log customization management system3. Online audit log management system4. Online audit trail management system5. Online authorizations management system6. Online data flow system7. Online data verification system8. Online document Management system9. Online employee management system10. Online enrollment system11. Online institution portal12. Online institutions management system13. Online reports system14. Online roles management system15. Online student management system16. Online tasks management system17. Offline data integration system18. Offline data rectification system19. Offline data backup system20. Offline examination management system21. Offline examination slip system22. Offline examination student allocation system23. Offline examination student enrollment system24. Offline reports system25. Offline secure data restoration system26. Offline user management system	01		

<p>27. Cloud data verification portal 28. Cloud examination result portal 29. Cloud parent portal 30. Cloud student portal 31. Inter-portal data security system 32. Inter-portal integration system As well as proposed system may support industry standard information security systems which will consist of</p> <ol style="list-style-type: none"> 1. Offline 2-factor authentication system 2. Offline 2-factor authentication verification system 3. Offline IP security policy management system 4. Offline remote device monitoring system 5. Online 2-factor authentication system 6. Online 2-factor authentication verification system 7. Online blocking system 8. Online Dos prevention system 9. Online geo-location restriction policy management system 10. Online intelligent virtual software firewall system 11. Online IP security policy management system 12. Online Public key infrastructure management system 13. Online Public key infrastructure monitoring system 14. Online remote device management system 15. Online request queuing system 16. Online RSA/SHA 2048 bit encryption system 17. Online secure data transaction system 18. Online secure PIN management system 19. Online secure socket tunneling system <p>As well as other required features and system to ensure data security. This system will also integrate with all available Telco to provide multi-factor security measures therefore this system will also consist of Offline Telco management system.</p> <p>Required Modules</p> <ol style="list-style-type: none"> 1. Enrollment Summary 2. SSC-I Enrollment Entry 3. HSC-I Enrollment Entry 4. HSC-I Humanities Enrollment 5. Enrollment Deleted Summary 6. Enrollment Delete Record 7. Enrollment Approve Record 8. Enrollment Bulk Approve 9. Enrollment Challan Summary 10. Enrollment Challan Print 11. Enrollment Challan Generate 12. Enrollment Challan Delete 13. Enrollment Seat List 			
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14.	Enrollment Cover Letter Print			
15.	Enrollment Form Print Single Record			
16.	Enrollment Form Print Bulk Records			
17.	Enrollment Card Print Single Record			
18.	Enrollment Card Print Bulk Records			
19.	Enrollment Edit Record			
20.	Enrollment Update Picture			
21.	Enrollment Summary Report			
22.	Enrollment Details Report			
23.	Enrollment Status Summary Report			
24.	Examination Summary			
25.	SSC-I Science Data Call From Enrollment Entry			
26.	SSC-I General Examination Entry			
27.	SSC-I Science Manual Examination Entry			
28.	SSC-II Data Call Entry			
29.	SSC-II Oriental Entry			
30.	SSC-II Package Entry			
31.	HSC-I Data Call From Enrollment Entry			
32.	HSC-I Humanities Examination Entry			
33.	HSC-II Data Call Entry			
34.	HSC-II Manual Examination Entry			
35.	HSC-II Humanities Examination Entry			
36.	HSC-II Oriental Examination Entry			
37.	HSC-II Package Examination Entry			
38.	HSC-II Group Change Examination Entry			
39.	HSC-II Faculty Change Examination Entry			
40.	Examination Form Delete Record			
41.	Examination Form Edit Record			
42.	Examination Form Approve Record			
43.	Examination Form Bulk Approve			
44.	Examination Form Picture Update			
45.	Examination Form Print Single Record			
46.	Examination Form Print Bulk Records			
47.	Examination Seat List Print			
48.	Examination Cover Letter Print			
49.	Examination Challan Summary			
50.	Examination Challan Print			
51.	Examination Challan Generate			
52.	Examination Challan Delete			
53.	Duplicate Examination forms data			
54.	Examination Fictitious Code Allocation System			
55.	Examination Fictitious Code Delete System			
56.	Examination Packet Code Allocation System			
57.	Examination Gazette Processing Preview System			
58.	Examination Gazette Processing System			
59.	Examination Schedules Summary			
60.	Examination Schedules Add Entry			
61.	Examination Schedules Edit Entry			
62.	Examination Schedules Time Table SSC			
63.	Examination Schedules Time Table HSC			
64.	Examination Schedules Publish All			
65.	Examination Schedules Publish New Records only			

66.	Examination Center Summary			
67.	Examination Center Add Entry			
68.	Examination Center Edit Entry			
69.	Examination Center Printing			
70.	Examination Allotment Summary			
71.	Examination Allotment Add			
72.	Examination Allotment Edit			
73.	Examination Allotment List Report			
74.	Examination Allotment Report for SSC			
75.	Examination Allotment Report for HSC-I			
76.	Examination Allotment Report for HSC-II			
77.	Examination Allotment X Report			
78.	Examination Slip Printing for SSC-I			
79.	Examination Slip Printing for SSC-II			
80.	Examination Slip Printing for HSC-I			
81.	Examination Slip Printing for HSC-II			
82.	Examination Center Slip Printing for SSC-I			
83.	Examination Center Slip Printing for SSC-II			
84.	Examination Center Slip Printing for HSC-I			
85.	Examination Center Slip Printing for HSC-II			
86.	Subject Allocation Institute Wise Report			
87.	Blank Ledger Report			
88.	Blank Ledger by Roll No Report			
89.	Proofing Ledger Report			
90.	Final Ledger Report			
91.	Final Ledger by Roll No Report			
92.	Award List Report			
93.	Award List for Practical Report			
94.	Batch Award List Report			
95.	Award List by Fictitious Code Report			
96.	Packet Key List report			
97.	Missing List Subject Wise Report			
98.	Missing List Packet Wise Report			
99.	Missing Packet List Report			
100.	Missing List Subject Wise Entry System			
101.	Search Fictitious Code System			
102.	Gazette Report			
103.	Gazette Printing Report			
104.	Institute Wise Result Report			
105.	Statistical Result I Report			
106.	Statistical Result II Report			
107.	Subject Wise Grade Report			
108.	Missing Subject List Edit			
109.	Marks Certificate for SSC-I			
110.	Marks Certificate for SSC-II			
111.	Marks Certificate for HSC-I			
112.	Marks Certificate for HSC-II			

113.	Pass Certificate for SSC-II			
114.	Pass Certificate for HSC-II			
115.	Pacca Certificate for SSC-II			
116.	Pacca Certificate for HSC-II			
117.	Candidate Data Position Wise Report			
118.	Candidate Data Year Wise Report			
119.	Candidate Data Group Wise Report			
120.	Candidate Data Percentage Wise Report			
121.	Candidate Data Private Sector Report			
122.	Result Entry by Award List			
123.	Result Entry by Packet Code for Practical Subjects			
124.	Result Entry by Roll No			
125.	Result Entry by Award List - Edit			
126.	Result Entry by Packet Code for Practical Subjects - Edit			
127.	Result Entry by Roll No - Edit			
128.	Result View System			
129.	Result Edit System			
130.	Search Code System			
131.	Posting of Absentee/UMeans System			
132.	Result withheld by Roll No System			
133.	Investigation Department - Umeans Summary			
134.	Investigation Department - Umeans New Entry			
135.	Investigation Department - Umeans Edit Entry			
136.	Investigation Department - Umeans Report			
137.	Investigation Department - Umeans Move to Examination System			
138.	Fee Schedules Summary			
139.	Fee Schedules Add Entry			
140.	Fee Schedules Edit Entry			
141.	Fee Schedules Delete Entry			
142.	Supplementary Summary			
143.	Supplementary Create SSC-II			
144.	Supplementary Create HSC-II			
145.	Supplementary Seat List Print			
146.	Supplementary Form Print Single Record			
147.	Supplementary Form Print Bulk Records			
148.	Supplementary Forms Edit Entry			
149.	Supplementary Approve Forms			
150.	Supplementary Bulk Approve Forms			
151.	Supplementary Slip SSC-II			
152.	Supplementary Slip HSC-II			
153.	Supplementary Center Slip SSC-II			
154.	Supplementary Center Slip HSC-II			
155.	Oriental Languages Summary			

156.	Oriental Languages Add Entry			
157.	Oriental Languages Edit Entry			
158.	Oriental Languages Delete Entry			
159.	Oriental Languages Approve Entry			
160.	Oriental Languages Seat List			
161.	Oriental Languages Form Print			
162.	Oriental Languages Slip			
163.	Oriental Languages Center Slip			
164.	HSC-II IT Examination Summary			
165.	HSC-II IT Examination Add Entry			
166.	HSC-II IT Examination Edit Entry			
167.	HSC-II IT Examination Delete Entry			
168.	HSC-II IT Examination Print Entry			
169.	HSC-II IT Examination Approve Entry			
170.	HSC-II IT Examination Slip			
171.	HSC-II IT Examination Center Slip			
172.	EC Summary			
173.	EC SSC-II Entry			
174.	EC HSC-I Entry			
175.	EC HSC-II Entry			
176.	EC Form Print Record			
177.	EC Edit Record			
178.	EC Approve Record			
179.	EC Certificate Printing			
180.	EC Deleted Summary			
181.	EC Deleted Record			
182.	Migration Certificate Summary			
183.	Migration Certificate SSC-I Entry			
184.	Migration Certificate SSC-II Entry			
185.	Migration Certificate HSC-I Entry			
186.	Migration Certificate Form Print Record			
187.	Migration Certificate Edit Record			
188.	Migration Certificate Approve Record			
189.	Migration Certificate Printing			
190.	Migration Certificate Deleted Summary			
191.	Migration Certificate Deleted Record			
192.	Notification Summary System			
193.	Notification Add Entry			
194.	Notification Edit Entry			
195.	Notification Delete Entry			
196.	Student Search by Particulars			
197.	Student Search by Roll No			
198.	Student Search by Roll No - Read Only			
199.	Student Search Top 10			
200.	Allotment Search			
201.	SMS Gazette			
202.	SMS Institutes			

203.	Users System			
204.	User Add Entry			
205.	User Edit Entry			
206.	User Delete Entry			
207.	User Roles Entry			
208.	Roles System			
209.	Permissions System			
210.	Institutes System			
211.	Institute Add Entry			
212.	Institute Edit Entry			
213.	Institute Delete Entry			
214.	Institute Users Entry			
215.	Cities Summary			
216.	Cities Add Entry			
217.	Cities Edit Entry			
218.	Cities Delete Entry			
219.	Districts Summary			
220.	Districts Add Entry			
221.	Districts Edit Entry			
222.	Districts Delete Entry			
223.	Session Summary			
224.	Session Add Entry			
225.	Session Edit Entry			
226.	Session Delete Entry			
227.	Classes Summary			
228.	Classes Add Entry			
229.	Classes Edit Entry			
230.	Classes Delete Entry			
231.	Groups Summary			
232.	Groups Add Entry			
233.	Groups Edit Entry			
234.	Groups Delete Entry			
235.	Subjects Summary			
236.	Subjects Add Entry			
237.	Subjects Edit Entry			
238.	Subjects Delete Entry			
239.	Log Summary			
240.	Log Add Entry			
241.	Log Edit Entry			
242.	Log Delete Entry			
243.	Print Log Summary			
244.	Print Log Add Entry			
245.	Print Log Edit Entry			
246.	Print Log Delete Entry			

Solution Architecture

This system will be a hybrid solution which should support running in 4 modes.

1. Online / Public
2. Online / Private
3. Offline
4. Cloud

The software vendor will need to fully understand and apply only if they have already worked in such hybrid solutions infrastructure system and who has full experience dealing with challenges of multi-architectural platform.

Software Architecture

This system will be architected using service oriented architecture and will consist of windows communication foundation based private services as well as representational state transfer supported secure data gateways.

The software vendor will need to be fully experienced working with secure data gateways and apply only if they have already worked on such gateways in the past. They should also have hands-on expertise on windows communication foundation based private services.

Technology Requirements

Framework: Microsoft .Net Framework.

Scripting: Microsoft C# .Net.

Data Store: Microsoft SQL Server.

Salient Features

- Combination of web base application, distributed application and cloud application
- QR based enrollment and verification
- Web/Browser based reports results
- Upgradable customizable and integrate-able with expended modules
- Simple back up procedure

Application Security

The software should be secure free from external or internal men mishandling, providing multilayer security such as

- (1) Encrypted User ID Password for login

<p>(2) Authentication and Authorization system</p> <p>(3) Only authorized terminals should be able to login</p> <p>(4) Session expiration policies</p> <p>(5) User log report</p> <p>(6) Proven Database security</p> <p>(7) Authorization Process</p> <p>So that a single user should not be able to temper the database.</p> <p>Software should be restricted only authorized users who will have access to work, view or print selected forms, reports etc.</p> <p>Customization</p> <p>Software must be prone to any changes and it can handle new requirements and up-gradations.</p> <p>Audit Trail</p> <p>Through the application we can search history option of any modified record, and should be able to see the changes for Audit purpose.</p> <p>Reporting</p> <ul style="list-style-type: none"> • Application include different interface for different kinds of reports which contains selection criteria to select between different fields. • Report should be printed as sorted out according to user inputs. • Report should be exported in PDF, word and excel format. <p>Training User Manuals</p> <ul style="list-style-type: none"> • Training of application is required so as end user can use it easily • User manuals should also be provided <p>Product Functions</p> <ul style="list-style-type: none"> • Enrollment of institutions • Enrollment of students • Data verification by student • Data rectification • Data integration in examination system • Schedule of examination • Exam slips • The examination • Results preparation • Results announcement <p>Reports</p> <p>This section gives overall summary in a report manner.</p>			
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This system will require dedicated reports portal for multiple reports. Reports should be printable and exportable in PDF, Word, Excel and other formats.

Deployment

1. The software will be hosted in local server available in the Data Center of BIE Karachi. The deployment services will be provided by the vender.
2. The board's Management will provide access to the qualified vender to install, deploy the software.
3. The software must be delivered and deployed within 132 work days from the date of signing of the Contract.

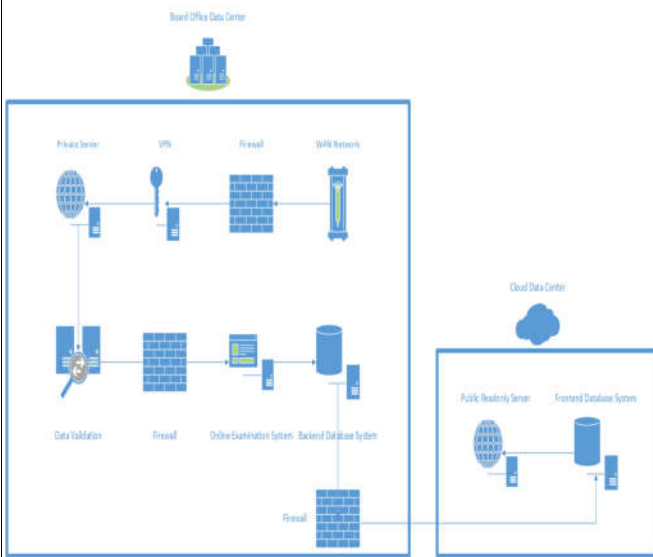


Figure 1.0 – Proposed deployment topology

Service & Support

1. The qualified vender would be responsible to provide free service and support till one year after signing of the contract.
2. The qualified vender will make the software bug free and do customization as per requirements till one year after signing of the contract.

Digital QR Code Branding

The main reports and certificates such as enrollment form, enrollment card, exam form, exam slip / admit card, marks certificate, pass certificate etc should incorporate digital QR code based branding to match to the latest technology advancements and make our board future ready.

50 mbps CIR circuit connectivity

The system will also require around 50 mbps CIR circuit connectivity over the optical fiber based systems.

SUPPLY, INSTALLATION AND COMMISSIONING OF
ONLINE EXAMINATION SYSTEM OVER THE CLOUD

BILL OF QUANTITY

Last Date and time for submission: -

Upto 12:00 noon dated 05.10.2023

Opening: -

At 01:00pm same day

Submitted by M/s. _____

Item No.	ITEM	DESCRIPTION/SPECIFICATIONS	QTY	Rate Including Tax	Total Amount Including Tax
2.	Desktop Computers New	Desktop Computer System Intel Core i7 11 th Generation with Latest Configuration 32GB RAM 1TB HDD 24-Inch LED Screen Keyboard and Mouse Free DOS Brand: HP/Dell with or Equivalent One year Standard Warranty	15 Nos.		
3..	Laptop Computers New	Laptop Computer System Intel Core i7 11 th Generation with Latest Configuration 16GB RAM 1TB HDD 15-Inch LED Screen Integrated Keyboard and Mouse Free DOS Brand: HP/Dell with or Equivalent One year Standard Warranty	05 Nos.		
4	UPS 10 KVA	Capacity:10 KVA AC Voltage regulation Short Circuit protection Overload protection Battery Overcharge protection Surge Protection Over discharge Protection Output frequency 50/60Hz +/-3Hz Pure Sine Wave Input Frequency 40-70 Hz (auto sensing) Maintenance free sealed Lead Acid battery with suspended electrotype: leak-proof 3 Year Support & Warranty Complete Installation/Wiring	01 No.		

5.	OMR Scanner	<p>Throughput Speeds * 70 ppm / 120 ipm Feeder Capacity Up to 80 sheets of 80 g/m² (20 lb.) paper Connectivity USB 3.2 Gen 1x1, USB 2.0 compatible & Wireless Network 802.11 b/g/n and 10/100 Ethernet Maximum Document Size 216 mm x 3000 mm (8.5 in. x 118 in.) Minimum Document Size 52 mm x 52 mm (2.05 in. x 2.05 in.) Paper Thickness & Weight 27–433 g/m² (7.2–160 lb.) paper Hard cards thickness up to 1.25 mm (0.05 in.)</p> <p>Maximum Optical Resolution 600 dpi Accessories & Consumables Stacking Deflector Accessory Integrated A4/Legal Flatbed KODAK A3 Size Flatbed Accessory Passport Flatbed Accessory Carrier Sleeves (5 PACK) Feed Roller Kit Pre-Separation Pad & Roller Kit</p> <p>Acoustical Noise Off or Ready mode: < 20 dB(A) Scanning: <50 dB(A)</p> <p>Approvals and Product Certifications As per standards</p> <p>Barcode Reading Codabar Code 128, Code 3 of 9, EAN-13, EAN-8, Interleaved 2 of 5, PDF417, QR, UPC-A, UPC-E</p> <p>Bundled Software Capture Pro Limited Edition Smart Touch</p> <p>Dimensions & Weight Weight: 3.3 kg (7.2 lbs.) Depth: 204 mm (8.0 in.), not including input tray and output tray. Width: 312 mm (12.3 in.) Height: 182.5 mm (7.2 in.), not including input tray Depth with Input Tray: 269 mm (10.6 in.) Height with Input Tray: 231.6 mm (9.1 in.) Electrical Requirements 100-240V(International); 50-60 Hz Environmental Certification 2008 EuP ENERGY STAR Qualified EPEAT Gold File Format Outputs BMP, JPEG, Single-page TIFF, Microsoft Excel, Microsoft Word, Multipage TIFF, PDF, Text searchable PDF, PNG, RTF</p> <p>Image Output Resolution Options Up to 1200 dpi Network Protocols DHCP (or static IP) TCP/IP</p> <p>Operating System Compatibility WINDOWS Server 2016 X64 Editions</p> <p>WINDOWS Server 2012 R2 X64 Editions WINDOWS 8.1 (32-bit and 64-bit) WINDOWS 10 (32- and 64-bit) WINDOWS 11 (64 bit) Ubuntu 16.04 64-bit and 32-bit Ubuntu 18.04 64-bit Ubuntu 20.04 64-bit</p>	01 No.		
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		<p>Open SUSE 11.3 (i586) 32-bit Open SUSE LEAP 15.1 64-bit SUSE Linux Enterprise Desktop 12.2 64-bit</p> <p>SUSE Linux Enterprise Desktop 15 SP1 for 64-bit</p> <p>WINDOWS XP SP3 (32-bit and 64-bit) (available only in China)</p> <p>Operating Temperature / Operating Humidity Operating Temperature 10-35° C (50-95° F) Operating Humidity 15% - 80% RH</p> <p>Operator Control Panel 3.5 inch (89 mm) graphical color touchscreen LCD with operator control buttons</p> <p>Optional Software Capture Pro Software Info Input Solution Paper Handling (SurePath) Features Controlled stacking. Enhanced jam recovery Intelligent Document Protection Interactive multifeed with image display on host Length Multifeed Detection Ultrasonic Multifeed Technology Operator overrides Perfect Page Image Enhancement Software Adaptive threshold processing Add or remove border. Aggressive cropping Auto white balance Autocrop Automatic Brightness/Contrast Automatic color balance Automatic color detection Automatic orientation Automatic photo cropping Background color smoothing Barcode reading Black and white image segmentation Brightness and contrast adjustment Content-based blank page removal Deskew Digital stamping Dual stream scanning Electronic color dropout Enhanced color adjustment Enhanced color management Fixed cropping Fixed thresholding Halftone removal Image edge fill Image hole fill Image merge Image split i Thresholding Lone Pixel Noise Removal Long document scanning (up to 3000 mm/118 in.) Majority rule noise removal Multicolor dropout Multiple document output Orthogonal rotation</p>			
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	<p>Output Compression-CCITT Group IV, JPEG, Uncompressed</p> <p>Output Relative cropping Sharpening Sleeve scanning (for scanning A3 documents or multiple small documents) Streak filtering Power Consumption Running: less than 36 watts. Sleep Mode: less than 5.0 watts Standby: less than 0.5 watts</p> <p>Recommended Daily Volume Up to 9,000 pages per day. Recommended PC Configuration Minimum PC configuration with scanning application: Intel Core i3 processor or faster, at least 4 GB RAM (Microsoft Windows) Scanning Technology Dual RGB LED Illumination CIS (CMOS); Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3); color capture bit depth is 48 bits (16 x 3) Standard Software and Drivers Citrix certified. KOFAX certified. ISIS Drivers LINUX (TWAIN and SANE) Drivers TWAIN Drivers WIA Drivers</p>			
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INSTALLATION SERVICES & LICENSES

NO.	ITEM & DESCRIPTION	UNIT	Unit Price	Total Amount
6.	Microsoft Windows Professional 11	50 Nos.		
7.	Microsoft Office Professional	50 Nos.		
8.	Antivirus for workstations	50 Nos.		
9.	Complete installation and wiring of the Lab computers (20 desktop computers)	01 No.		
10.	Online System for institutes	01 No.		
11.	Core Examination System	01 No.		
12.	OMR System for examination	01 No.		
13.	Mobile App for BISE Hyderabad	01 No.		
14.	SMS Integration for results announcements	01 No.		
15.	Remote Booth for duplicate transcript	01 No.		
16.	Home delivery of degree	01 No.		
17.	Complete Installation	01 Job.		
18.	Training of concerned Staff	01 Job.		
19.	Source Code	01 Job.		
20.	Accounts & Finance Management System	01 Job.		
21.	Human Resources Management System	01 Job.		
Grand Total of Quoted Items (Bid Price)				

Note: 1. All Govt. Taxes will be deducted at source, as per rules in practice.
05% Bid Security Rs. _____ vide D.D/P. O No. _____
dated _____ drawn at _____.

(_____)
Signature of Supplier with stamp