

Standard Bidding Document

Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi
(Goods and Services)

National

Single Stage-One Envelope



July 21, 2026

NAV TTC (Procurement Cell)

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REQUEST FOR BIDS

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INVITATION TO E-BIDDING

1. The **National Vocational and Technical Training Commission (NAVTTTC)** invites Bids through EPADS v2.0 from eligible Bidders registered on **EPADS V.2.0** for "**Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi**".
2. **Single Stage-Two Envelope** procedure of principal method of Procurement (i.e. Open Competitive Bidding) will be used by adopting **Quality and Cost Based Selection (QCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2004 and any Regulations, and Instructions issued by the Authority (from time to time).
3. All Bids must be accompanied by a Bid Security described in Bid Security Section in Bidding Document in the form of **Pay Order in Favor of "NAVTTTC Fund"**.
4. é-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at <https://vendors.epads.gov.pk/>.
5. The é-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS V.2.0** on or before **Thursday, August 06, 2026 11:00 AM**. é-bids will be opened on the same day Thursday, **August 06, 2026 at 11:30 AM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS V.2.0**, may register themselves on <https://vendors.epads.gov.pk/>. A tutorial to explain the registration process is available at <https://www.youtube.com/watch?v=MNW6T38v7tc>
6. In terms of Rules 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is notified and available on EPADS v2.0 as well as Authority's website at (www.ppra.org.pk).

Procurement Cell

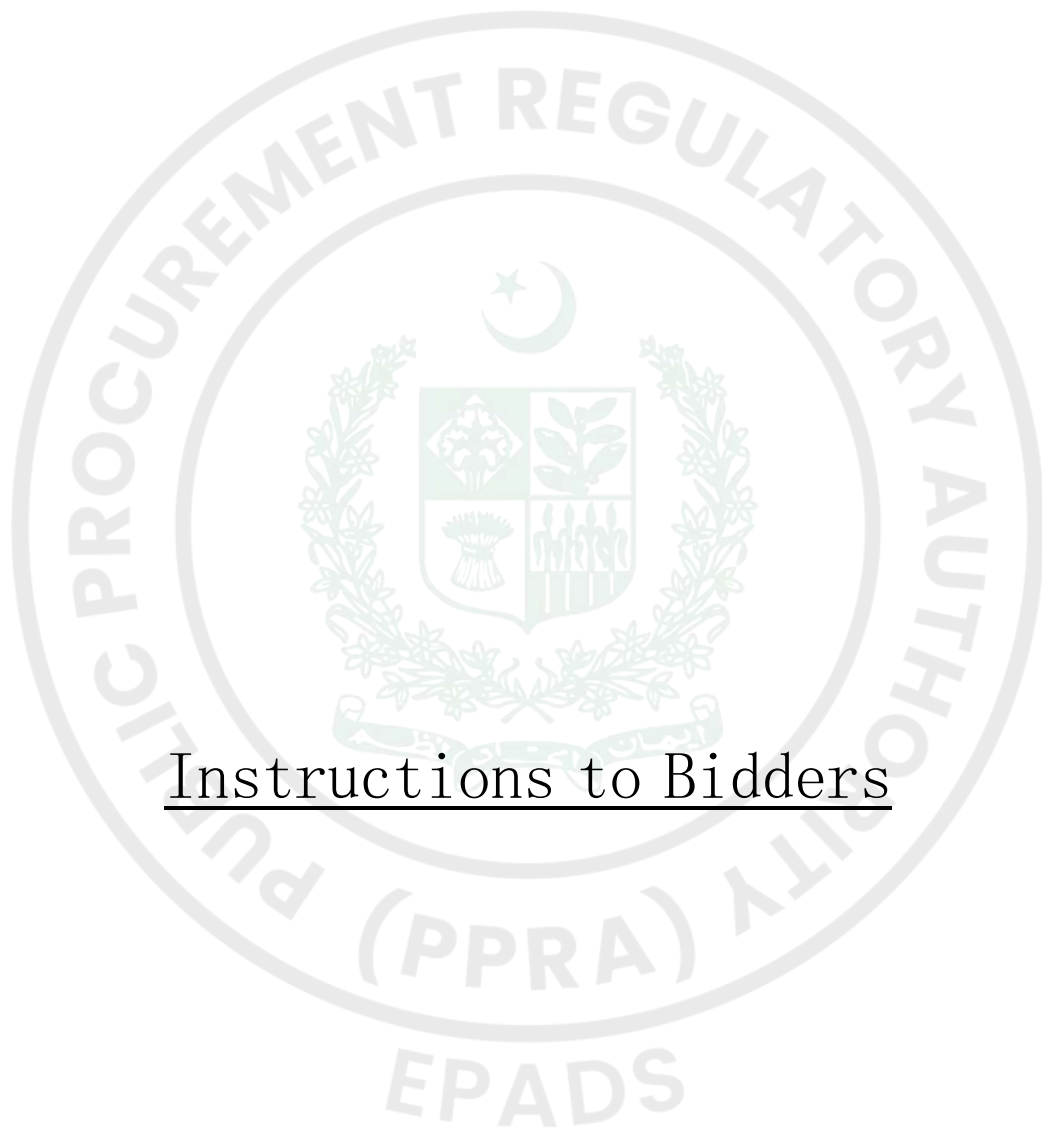
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Instructions to Bidders

A. Introduction

1. Scope of Bids

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

2. Source of Funds

2.1 - As per procedure in vogue.

3. Eligible Bidders

3.1 Described in Eligibility.

3.2 NA

3.3 NA

3.4 NA

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

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.
2. have controlling shareholders in common; or
3. receive or have received any direct or indirect subsidy from any of them; or
4. have the same legal representative for purposes of this Bid; or
5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or

influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

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

3.6 A Bidder may be ineligible if -

1. he is declared bankrupt or, in the case of company or firm, insolvent;
2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;
3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;
4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of Bid securing declaration.

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

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

4. Eligible Goods and Related Services

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

5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process.

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

6. Cost of Bidding

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

B. Bidding Documents

7. Contents of Bidding Document

7.1 The Goods and Services required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 9.1** include:

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

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

8. Clarification of Bidding documents

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

8.2 The Procuring Agency will within three (3-5) working days after receiving the request for clarification, respond to any request for clarification through **EPADS v2.0** provided that such request is received not later than three (07) days prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 Copies of the Procuring Agency's response will be forwarded to all identified Prospective Bidders through **EPADS v2.0**, including a description of the inquiry, but without identifying its source.

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

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

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

9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda. **In case of any discrepancies, documents issued directly through EPMS / PPRA website shall prevail.**

9.2 The Procuring Agency shall promptly publish the addendum through EPMS / PPRA Website & **EPADS v2.0**.

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

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

Provided that the Procuring Agency shall extend the deadline for submission of

Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

C. Preparation of Bids

10. Language of Bid

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

11. Documents and samples Constituting the Bid

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

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

1. Documentary evidence established in accordance with ITB that the Bidder is eligible and/or qualified for the subject bidding process;
2. Documentary evidence establish that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;
3. Documentary evidence establishes that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;
4. Bid security furnished in accordance with **ITB 18**.

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

12.1 To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods provided conform to the technical specifications and standards.

13. Documents Establishing Eligibility and Qualification of the

Bidder

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

14. Form of Bids

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

15. Bids Prices

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

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

15.3 Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive Bidder(s) shall be construed to be the price of those missing item(s)

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 14.1** shall be the total price of the Bid.

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

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

16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 30(2) of the Public Procurement Rules, 2004.

17. Bids Validity Period

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

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

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids only once through **EPADS v2.0**, for the period not more than the period of initial bid validity. The Bid Security provided under **ITB 18** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

18. Bid Security

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 25 of the Public Procurement Rules, 2004.

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

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

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

18.5 The Bid Security shall be denominated in the local currency, and it shall be a Pay Order in the name of the Procuring Agency (NAVTC Fund) and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bids/Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the

Procuring Agency in case any of the conditions listed in **ITB 18** are invoked.

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

1. the expiry of the Bid Security;
2. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;
3. the rejection by the Procuring Agency of all Bids;
4. the withdrawal of the Bids prior to the deadline for the submission of Bids, unless the Bids documents stipulate that no such withdrawal is permitted.

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

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

1. if a Bidder:
2. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 17.2**; or
3. does not accept the correction of errors; or
4. in the case of a successful Bidder, if the Bidder fails:
5. to sign the contract; or
6. to furnish Performance Guarantee.

19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0. Bids requested to be withdrawn, shall be returned unopened to the Bidders through **EPADS v2.0**.

20. Format and Signing of Bid

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

D. Submission of Bids

21. Submission of Bids through EPADS v2.0

21.1 The Technical and Financial Bids if required to submitted, shall be submitted on **EPADS v2.0**.

22. Deadline for Submission of Bids

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

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

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

E. Opening and Evaluation of Bids

23. Opening of Bids

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

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

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

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

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

24. Clarification of Bids

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

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

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

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;

5. terms and conditions of Bidding documents.

6. change in the ranking of the Bidder

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

25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;
2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;
3. is accompanied by the required securities; and
4. is substantially responsive to the requirements of the Bidding documents.

25.2 The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

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

1. affects in any substantial way the scope, quality, or performance of the Goods;
2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or
3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.3 If a Bids is not substantially responsive, it will be rejected by the Procuring Agency and may not subsequently be evaluated for complete technical responsiveness.

26. Examination of Terms and Conditions; Technical Evaluation

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

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

26.3 If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not substantially responsive in accordance with **ITB 25.2**, it shall reject the Bid.

27. Correction of Errors

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

1. if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;
2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and
3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bids, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

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

28. Conversion to Single Currency

28.1 To facilitate evaluation and comparison, the Procuring Agency will convert all Bids prices expressed in the amounts in various currencies in which the Bids prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate prevailing on the date of opening of financial bids specified in the bidding documents, in accordance with weighted average customer exchange rates list issued by the State Bank of Pakistan on that day.

29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria described in the Bidding Documents in accordance with Rule 29 and 30 of the Public Procurement Rules, 2004.

1. Least Cost Based Selection (LCBS)

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

2. Quality and Cost Based Selection (QCBS)

In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

3. Quality Based Selection (QBS)

After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second

highest bidder and so on.

29.2 In case of tie of bids, the bidders shall be provided an opportunity to offer their best and final monetary offer through EPADS v2.0. However, in no case the rates shall be higher than the original financial bids.

30. Domestic Preference

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

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

31. Determination of Successful Bid

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

31.2 In case where the Procuring Agency adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Successful Bid.

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

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

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

31.4 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1) (h) of the Public Procurement Rules, 2004.

32. Abnormally Low Financial Bids

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

32.2 The Procuring Agency may reject an Abnormally low financial bids.

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

1. Comparing the Bids price with the cost estimate;
2. Comparing the Bids price with the Bids offered by other Bidders submitting substantially responsive Bids; and
3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.4 The Procuring Agency will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

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

32.6 Procuring Agency may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

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

32.7 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bids, in which event the Procuring Agency will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform

satisfactorily.

F. Award of Contract

33. Criteria of Award

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

34. Negotiations

34.1 The procuring agency shall not engage in negotiations with respect to scope and price with the bidder except when the procuring agency conducts a procurement using direct **or negotiated** contracting or a request for proposals with evaluation based on quality alone.

34.2 The procuring agency may negotiate with the most advantageous bid with a view to streamline the work or task execution, at the time of contract finalization on methodology, work plan, staffing, finalizing payment arrangements, delivery arrangements, minor amendments to the special conditions of the contract.

35. Procuring Agency Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 33 of the Public Procurement Rules, 2004.

36. Procuring Agency's Right to Vary Quantities at the Time of Award

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

37. Notification of Award

37.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on **EPADS v2.0** in accordance with Rule 35

of the Public Procurement Rules, 2004.

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

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

38. Signing of Contract

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

38.2 Immediately after the Redressal of grievance by the GRC (if any), mandatory standstill period in accordance with Rule 35 of the Public Procurement Rules, 2004 and **after fulfillment of all condition's precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

39. Corrupt & Fraudulent Practices

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

F. Grievance Redressal & Complaint Review Mechanism

40. Constitution of Grievance Redressal

40.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 48 of the Public Procurement Rules, 2004 to be read with Redressal of Grievances Regulations, 2021.

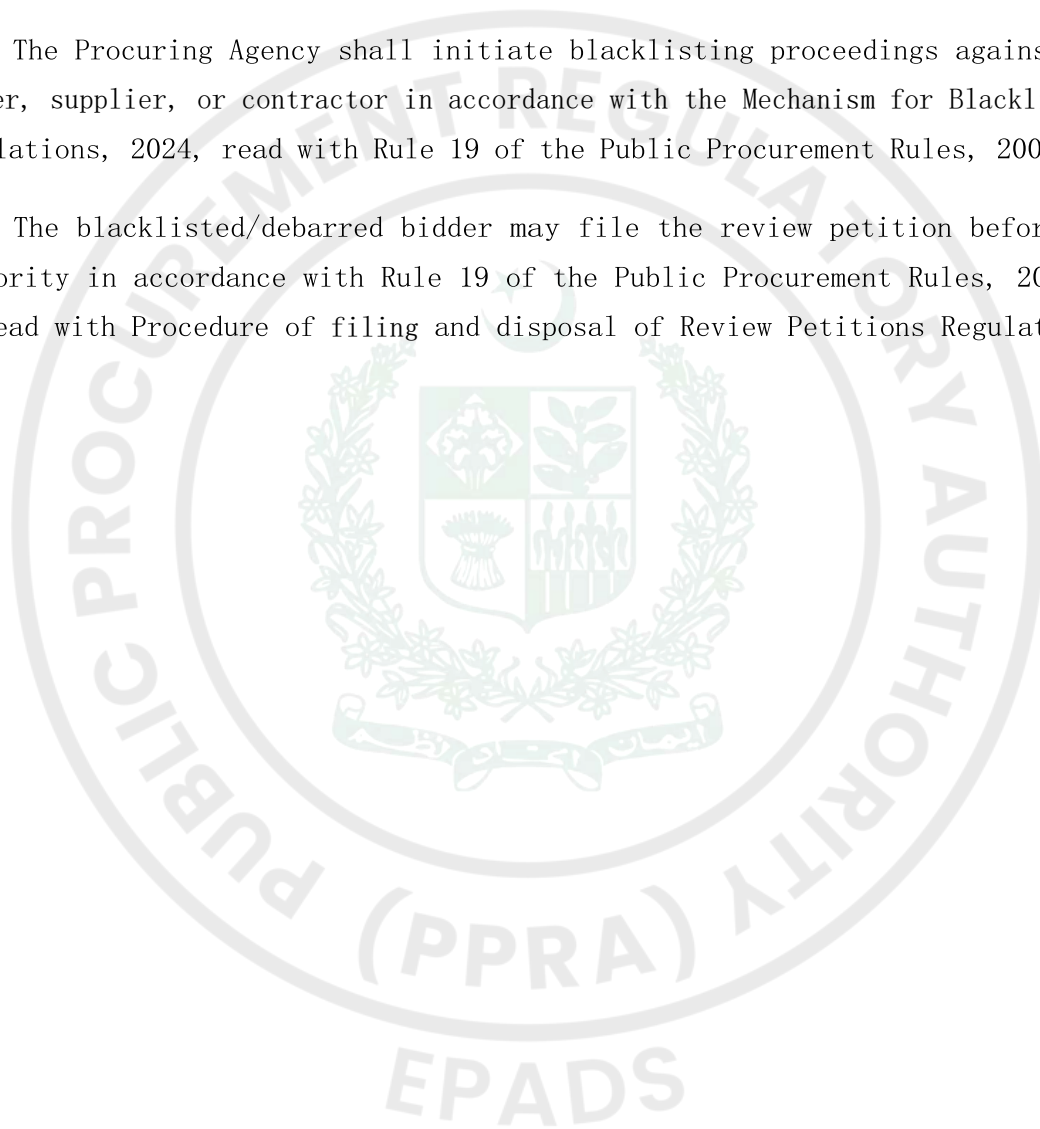
40.2 In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 48 of the Public Procurement Rules, 2004 to be read with Redressal of Grievances Regulations, 2021.

G. Mechanism of Blacklisting

41. Mechanism of Blacklisting

41.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Mechanism for Blacklisting Regulations, 2024, read with Rule 19 of the Public Procurement Rules, 2004.

41.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 19 of the Public Procurement Rules, 2004 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.





Bid Data Sheet

Bids Data Sheet (BDS)

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

BDS Clause Number

ITB Number

Amendments of, and Supplements to, Clauses in the Instruction to Bidders

A. Introduction

BDS Clause Number 1

ITB Number 1.1

Name of Procuring Agency: **NAVTTTC**

The subject of procurement is: **Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi**

Expected commencement date: **Friday, September 25, 2026**

BDS Clause Number 2

ITB Number 2.1

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

Name and identification number of the Contract: **P66932**

BDS Clause Number 3

ITB Clause Number 3.1

JV/Consortium or Association: ***** JV is not Allowed *****

B. Bidding Documents

BDS Clause Number 4

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, July 31, 2026

*****Any vendor placing the clarification as Grievance would be awarded demerit points*****

C. Preparation of Bids

BDS Clause Number 5

ITB Number 10.1

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

List of documents required along with the bid:

1. All documents / undertakings in support of eligibility / Technical Evaluation

BDS Clause Number 6

ITB Number 11.1

Items/Lots and their related documents:

See section items and Lots

BDS Clause Number 7

ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8

ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9

ITB Number 16.1

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

BDS Clause Number 10

ITB Number 17.1

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

BDS Clause Number 11

ITB Number 18.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**

The Bid Security shall be in the form of: **Pay Order**

D. Submission of Bids

BDS Clause Number 12

ITB Number 20.1

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

Procurement Cell NAVTTC HQ, Kirthar Road, Sector H-9/4, Islamabad
before bid submission deadline.

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

The deadline for Bids submission is: **Thursday, August 6, 2026 11:00 AM**

E. Opening and Evaluation of Bids

BDS Clause Number 13

ITB Number 23.1

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

Day : **Thursday**

Date: **Thursday, August 6, 2026**

Time : **11:30 AM**

BDS Clause Number 14

ITB Number 31.1

Selection technique adopted will be: **Quality and Cost Based Selection (QCBS)**

see Evaluation Criteria

F. Review of Procurement Decisions

BDS Clause Number 15

ITB Number 41.1

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

Eligibility Criteria

Bidder's Type	Required Registration
Partnership Firm	NADRA CITIZENSHIP (CNIC/NICOP)
Company (Private Limited)	FBR (NTN)
Company (Public Limited)	FBR (GSTN)
	SECP
	PEC

Eligibility Criteria	Document
Company / Firm is required to produce the evidence of at least 2 x IT related projects in terms of Purchase Order(s) / Contract(s) with completion certificate(s) worth 150,000,000 PKR or above during past 3 years.	Yes
Company / Firm is required to produce the evidence of establishing at least 20 x IT Labs in Public Sector in terms of Purchase Order(s) / Contract(s) with completion certificate(s) during past 3 years	Yes

Evaluation Criteria

Eligible bidder(s) with substantially responsive bid(s) offering **Quality and Cost Based Selection (QCBS)** shall be consider for the award of contract (s).

Quality and Cost Based Selection (QCBS)

Technical Marks	100
Passing Marks	70
Experience of Firm	
Provide list of similar works (Establishment of IT Labs with Provision and Installation of all Equipment successfully completed during the last 5 years give name of project, name of Employer, start and completion dates etc. Also provide completion certificates for each completed Contract/Purchase Order which include IT works along with Other Required Works) (Qualitative) (Doc Required)	20
3 POs / Contracts with Completion Certificates worth 150,000,000 or above (20)	
2 POs / Contracts with Completion Certificates worth 150,000,000 or above (5)	
Number of IT Labs Completed in Last 5 Years in Public Sector (Qualitative) (Doc Required)	15
More than 30 x IT Labs Completed in Last 5 Years in Public Sector (15)	
More than 20 x IT Labs Completed in Last 5 Years in Public Sector (10)	
More than 10 x IT Labs Completed in Last 5 Years in Public Sector (5)	

Human Resource	
Project Manager (Qualitative) (Doc Required) BS/BE (IT or related discipline) with 10 years or more relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (4) Project Manager (Qualitative) (Doc Required) BS/BE (IT or related discipline) with 10 years or more relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (4) BS/BE (IT or related discipline) with less than 10 years of relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (1) (1)	4
Civil Engineer (Qualitative) (Doc Required) BS/BE (Civil Engineering or related discipline) with 5 years or more relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (3) BS/BE (Civil Engineering or related discipline) with less than 5 years of relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (1)	3
Network Engineer (Qualitative) (Doc Required) BS/BE (IT / Networking or related discipline) with 5 years or more relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (3) BS/BE (IT / Networking or related discipline) with less than 5 years of relevant experience [CV, Degrees / Transcripts, Appointment letters, Salary Slip and Experience Certificate required] (1)	3
Financial Position	

Audited Financial Statement with bank Statement (Last 3 Years) (Qualitative) (Doc Required) Annual Average Turn Over of 300 Million PKR or above (10) Annual Average Turn Over of 200–299 Million PKR (5)	10
Working Capital (Qualitative) (Doc Required) More than 200 Million PKR (3) Less than 200 Million PKR (1)	3
Bank Line of Credit (Qualitative) (Doc Required) More than 200 Million PKR (2) Less than 200 Million PKR (1)	2
Manufacturer's Authorization Letter (MAL) MAL For: – i- (Desktop Computers) ii- (IT Network Equipment) (Network Switches, Wifi Routers) iii- (Interactive Smart Screens) (All verified MALs make a firm eligible for 5 Marks) One MAL not verified (zero marks) (Quantitative) (Doc Required) MAL For: – i- (Desktop Computers) ii- (IT Network Equipment) (Network Switches, Wifi Routers) iii- (Interactive Smart Screens) (All verified MALs make a firm eligible for 5 Marks) One MAL not verified (zero marks) (5)	5
Proposed Product Specifications Desktop Computers (Specifications matching with given criteria) (Quantitative) (Doc Required)	4

IT Network Equipment (Network Switches, Wifi Routers) (Quantitative) (Doc Required)	4
Interactive Smart screen (Specifications matching with given criteria) (Quantitative) (Doc Required)	2
Understanding of Assignment and Execution Plan with Timelines (Complete Plan)	
Understanding of Assignment and Execution Plan with Timelines (Complete Plan) Procuring Agency may call the vendor to present entire Plan with timelines (Qualitative) (Doc Required)	20
Technical Support / Lab Facility in Karachi	
[Technical Support / Lab Facility in Karachi] The Bidder's functional office in Karachi and shall provide complete office address, contact details, and details of its local technical/support team. May be verified by the procuring agency without notice. (Quantitative) (Doc Required)	5

Items/Lots

Lot Title : Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi

Bid Security : 10000000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Desktop Computers with Screen	Desktop computer	Address: Karachi Schedule: 60 Quantity: 328/Qty	328 / Qty	1	Any	1095 Days
75" Interactive Smart Screens	Interactive whiteboards or accessories	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	Any	365 Days
OPS for Interactive Smart Screen	Interactive whiteboards or accessories	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Wi-Fi Routers	Network routers	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	Any	365 Days

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Heavy Duty (Black & White) Printer	Laser printers	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Multi- Function (Color Printer)	Multi function printers	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Inverter Air Conditioner	Air conditioners	Address: Karachi Schedule: 60 Quantity: 24/Qty	24 / Qty	1	--	1095 Days
Electric Wiring for Air Conditioner	Wiring duct fitting and accessories	Address: Karachi Schedule: 60 Quantity: 24/Qty	24 / Qty	1	--	365 Days
Network Switches	Network switches	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	Any	365 Days
LAN Works	Local area network LAN maintenance or support	Address: Karachi Schedule: 60 Quantity: 360/Qty	360 / Qty	1	--	365 Days

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Computer Table for Students	Student computer tables	Address: Karachi Schedule: 60 Quantity: 320/Qty	320 / Qty	1	--	365 Days
Computer Table for Teachers	Classroom tables	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Chairs for students	Classroom chairs	Address: Karachi Schedule: 60 Quantity: 320/Qty	320 / Qty	1	--	365 Days
Chairs for Teachers	Chairs	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Audio System with Mic and all accessories	Home high fidelity audio system	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Electric Wiring Points for Computers and Other Equipment	Electrical wire or cable raceway	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	--	--	365 Days

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Main Power Cable	Power cable	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Grounding Works	Grounding devices or assemblies	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	--	--	365 Days
UPS	Uninterruptible power supply UPS	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Enamel Paint	Enamel paints	Address: Karachi Schedule: 60 Quantity: 8000/sqft	8000 / sqft	1	--	365 Days
CCTV Camera System	Closed circuit television CCTV system	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Tile Flooring	Porcelain	Address: Karachi Schedule: 60 Quantity: 16000/sqft	16000 / sqft	1	--	365 Days

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Tube Lights	Longwall lighting	Address: Karachi Schedule: 60 Quantity: 64/Qty	64 / Qty	1	--	365 Days
False Ceiling 2' x2', Gypsum	Ceiling panels	Address: Karachi Schedule: 60 Quantity: 16000/sqft	16000 / sqft	1	--	365 Days
Windows Roller Blinds	Vertical blinds	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	1	--	365 Days
Hard Wall Paneling	Panels or paneling	Address: Karachi Schedule: 60 Quantity: 16000/sqft	16000 / sqft	1	--	365 Days
Window Broken Glasses Replacement	Window and door and screening installation and repair service	Address: Karachi Schedule: 60 Quantity: 32/Qty	32 / Qty	--	--	365 Days
Ceiling Fans	Ceiling fan	Address: Karachi Schedule: 60 Quantity: 64/Qty	64 / Qty	1	--	1095 Days

Item	UNSPSC	Delivery Schedule	Quantity	Sample Quantity	Manufacturer / Dealer Authorization	Warranty
Miscellaneous	Miscellaneous	Address: Karachi Schedule: 60 Quantity: 8/Qty	8 / Qty	--	--	--



Related Services of Goods:

No

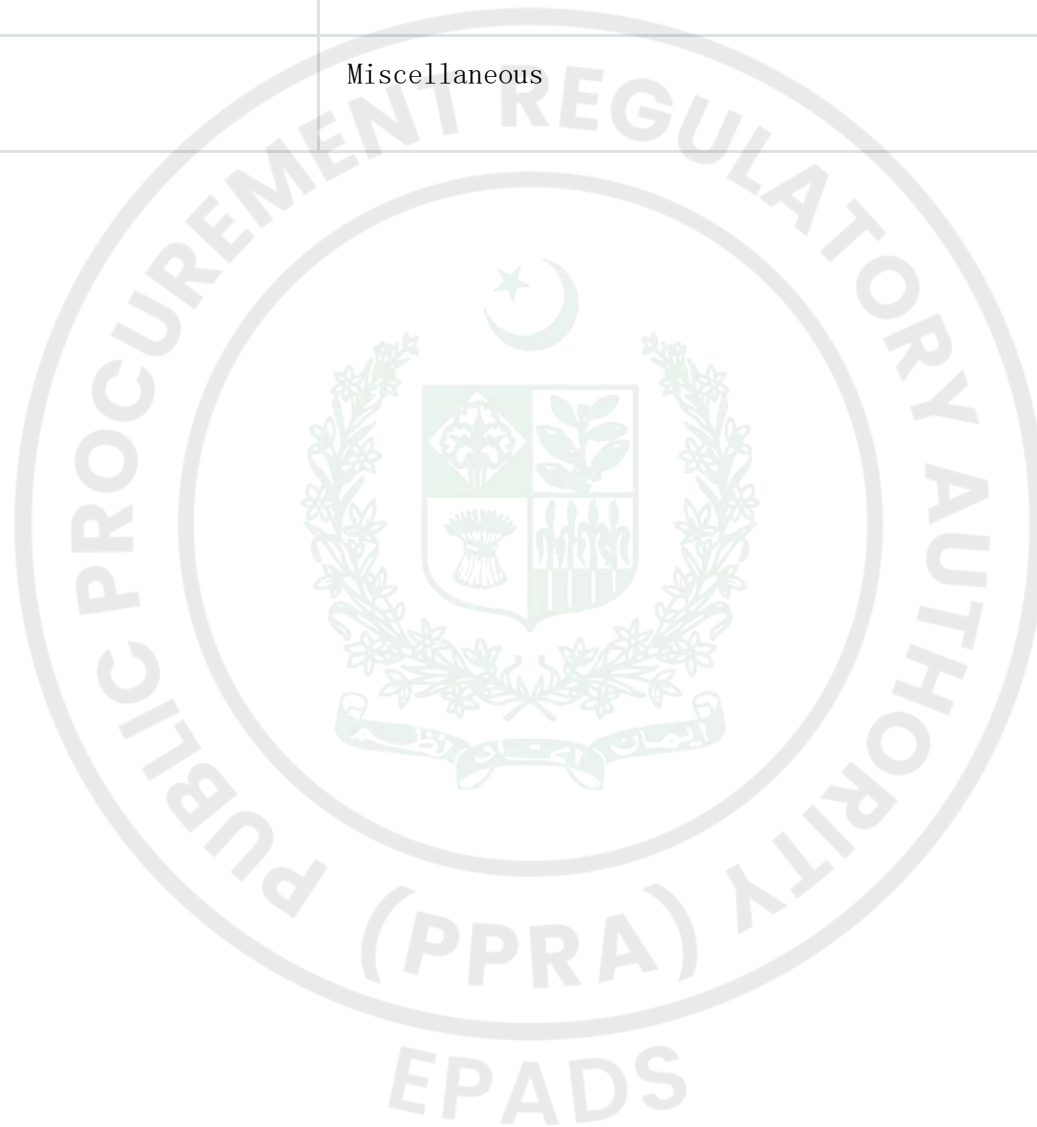
Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi

Item	UNSPSC	Related Services
Desktop Computers with Screen	Desktop computer	Provision and Installation
75" Interactive Smart Screens	Interactive whiteboards or accessories	Provision and Installation
OPS for Interactive Smart Screen	Interactive whiteboards or accessories	Provision and Installation
Wi-Fi Routers	Network routers	Provision and Installation
Heavy Duty (Black & White) Printer	Laser printers	Provision and Installation
Multi- Function (Color Printer)	Multi function printers	Provision and Installation
Inverter Air Conditioner	Air conditioners	Provision and Installation

Item	UNSPSC	Related Services
Electric Wiring for Air Conditioner	Wiring duct fitting and accessories	Provision and Installation
Network Switches	Network switches	Provision and Installation
LAN Works	Local area network LAN maintenance or support	Provision and Installation
Computer Table for Students	Student computer tables	Provision and Installation
Computer Table for Teachers	Classroom tables	Provision and Installation
Chairs for students	Classroom chairs	Provision and Installation
Chairs for Teachers	Chairs	Provision and Installation
Audio System with Mic and all accessories	Home high fidelity audio system	Provision and Installation
Electric Wiring Points for Computers and Other Equipment	Electrical wire or cable raceway	Provision and Installation
Main Power Cable	Power cable	Provision and Installation

Item	UNSPSC	Related Services
Grounding Works	Grounding devices or assemblies	Provision and Installation
UPS	Uninterruptible power supply UPS	Provision and Installation
Enamel Paint	Enamel paints	Provision and Installation
CCTV Camera System	Closed circuit television CCTV system	Provision and Installation
Tile Flooring	Porcelain	Provision and Installation
Tube Lights	Longwall lighting	Provision and Installation
False Ceiling 2' x2', Gypsum	Ceiling panels	Provision and Installation
Windows Roller Blinds	Vertical blinds	Provision and Installation
Hard Wall Paneling	Panels or paneling	Provision and Installation
Window Broken Glasses Replacement	Window and door and screening installation and repair service	Provision and Installation

Item	UNSPSC	Related Services
Ceiling Fans	Ceiling fan	Provision and Installation
Miscellaneous	Miscellaneous	Provision and Installation



Items/Lot Specification

Lot Title : Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi

Item: Desktop Computers with Screen

UNSPSC: Desktop computer

Specifications / Requirements:

Item: Desktop Computers with Screen UNSPSC: Desktop computer Specifications / Requirements: Desktop Computers with Screen Only, Gartner's top 6 manufacturers products with below mentioned equivalent or above specs with Supply and Installation of:- Desktop Computers: Processor Intel Core Ultra 7 265, 20C (8P + 12E) / 20T, Max Turbo up to 5.3GHz, 30MB Intel Smart Cache AI PC Category [1] AI PC NPU Integrated Intel AI Boost, up to 13 TOPS Graphics Integrated Intel Graphics Chipset Intel B860 ChipsetMemory1x 16GB UDIMM DDR5-5600 Memory Slots Two DDR5 UDIMM slots, dual-channel capable Max Memory Up to 64GB DDR5-5600 Storage512GB SSD M.2 2280 PCIe 4.0x4 NVMe Max Storage Support Up to three drives, 1x 3.5" HDD + 2x M.2 SSD • 3.5" HDD up to 2TB • M.2 SSD up to 1TB each For installing HDD storage, 3.5" HDD screw and grommet kit is needed. Audio Chip High Definition (HD) Audio, Realtek ALC623-CG codecSpeakers2Wx1Power Supply310W 92%KeyboardUSB, Calliope, Black, English (EU)Mouse USB Calliope Mouse, Black Optional Bay3.5" HDD Bracket Expansion Slots One PCIe 4.0 x16, full-height, length ≤ 233.6mm, height ≤ 117.5mm One PCIe 3.0 x1, full-height, (length ≤ 185mm, height ≤ 100mm) or (length ≤ 118mm, height ≤ 110mm) Three M.2 slots (one for WLAN, two for SSD)WLAN + Bluetooth Intel Wi-Fi 6 AX203, 802.11ax 2x2 + BT5.2WWANNon-WWANEthernetRTL8111K, 1x RJ-45Front Ports1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with data transfer and 15W charging 2x USB-A (Hi-Speed USB / USB 2.0) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1) 1x headphone / microphone combo jack (3.5mm) 1x microphone (3.5mm)Rear Ports2x USB-A (Hi-Speed USB / USB 2.0) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On 1x HDMI 2.1 TMDS 1x DisplayPort 1.4 1x VGA 1x Ethernet (RJ-45) 1x line-out (3.5mm)Security Chip Discrete TPM 2.0, TCG certified, FIPS 140-2 certified Physical Locks Kensington Security Slot, 3 x 7 mm Padlock Loop Chassis Intrusion Switch Chassis Intrusion Switch Included Upgrade3Y Onsite upgrade from 1Y Courier/Carry-in (CPN)Green Certifications RoHS / WEEE / REACH Other Certifications TÜV Rheinland Ultra Low Noise Operating System Windows 11 Pro, English OEM Preinstalled Windows with BIOS embedded. Screen Size :23.8". Brightness 250 cd/m² (typical). Aspect Ratio 16:9. Contrast Ratio 1500:1. Backlight WLED. Response Time. 1 ms (MPRT), 4 ms (Extreme Mode), 6 ms (Normal Mode), 14 ms (Off Mode). Panel Type In-Plane Switching Viewing Angle. 178° / 178° . Stand Tilt 0.83 kg / 1.64 lbs. t Angle (-5° / 22°). Power Requirement 100 - 240 VAC, 50 - 60 Hz. Energy Star 8.0.

Included Accessory HDMI cable. Color Coverage 99% sRGB. Color Depth 8-bit. Color Support 16.7 Million. Integrated Speaker Yes (2 x 3W). Kensington Lock Yes. Near Edgeless 4-sided ultra thin bezel. Power Consumption 14W Typ, 28W Max, 0.5W Sleep, 0.3W Power Off. Maximum Resolution 1920 x 1080. Connection Type 1 x HDMI 1.4, 1 x VGA 1 x Audio Out (3.5 mm). Warranty. 3-Year limited. Resolution 1920 x 1080. Refresh Rate 100 Hz Or Equivalent

Item: 75” Interactive Smart Screens

UNSPSC: Interactive whiteboards or accessories

Specifications / Requirements:

Item: 75” Interactive Smart Screens UNSPSC: Interactive whiteboards or accessories Specifications / Requirements: 75” Smart Interactive Display • Backlight: DLED backlight • Panel size: 75 inches, Resolution: 3840*2160 • Brightness (cd/m²): 350, Contrast ratio: 4000:1, Color support: 1.07 billion colors • Response time: 8ms, Viewing angle (H/V) 178° /178° • CPU architecture: GK6760V100, CPU operating frequency: Octa-core A55 1.2GHz • RAM/ROM DDR4: 8GB eMMC:128GB • System version Android: 14.0 • Touch control: Contactless IR sensor, supports 20-point touch, Touch precision (mm): ±2 • Glass: 3mm tempered glass, level 7 on Mohs hardness scale, anti-glare • Input method: Opaque objects (e.g. fingers, pens) • Video Input: 2 x HDMI IN, Audio Output: 1 x Line OUT 1 x Coax OUT • Other Interfaces: 2 x Touch USB, 1 x Type C, 5 x USB 2.0, 1 x RS232, 1 x TF card • Rear interface: 1 x RJ45, supports 10M/100M Base-T self-adaptive • Speaker: 2 × 15W, Channel: 2.0 • Camera 48MP (Android: Pixel 8MP for Photos & 2MP for Video) (Windows: Pixel 48MP for Photos & 48MP for Video) • Microphone array: 8, Pickup distance: 8, Function Voice tracking • Wi-Fi 5, supports 5G/2.4G, Performance: 0~12m distance in open space • Bluetooth Version: 5.0, Performance: 12m transmission distance in open space • Accessories included: 1*power cable, 2* Touch Pen, 1*quick guide, 1* remote control,1* wall mounting bracket, 2 x rod antenna

Item: OPS for Interactive Smart Screen

UNSPSC: Interactive whiteboards or accessories

Specifications / Requirements:

Item: OPS for Interactive Smart Screen UNSPSC: Interactive whiteboards or accessories Specifications / Requirements: OPS for Smart Interactive Display • CPU: Intel i5-12450H, Cores: 8, Threads: 12 • CPU Frequency: 2.0 GHz, Max. Turbo Frequency 4.4 GHz • RAM: 8 GB DDR4, support for expansion up to 32 GB • ROM: 256 GB SSD • Operation System: Windows 11 Enterprise (not activated) • USB: 4 × USB 3.0, 2 × USB 2.0, 1 × USB 3.0 USB Type-C • Audio: 1 × MIC, 1 × Line Out • HDMI: 1 × HDMI (Max. Resolution: 3840 ×

2160@60 Hz) • DP: 1 × DP (Max. Resolution: 3840 × 2160@60 Hz) • Network: 1 × RJ45 (10/100/1000M) • Antenna: 2 × dual-band antenna • Reset Key: 1 × Reset Key, • Power: on/off Switch 1 × power on/off switch • Power Indicator: 1 × power indicator • WLAN: 1 × M.2 2230 (Support Cnvi and WIFI 6E, BT 5.2) Or Equivalent

Item: Wi-Fi Routers

UNSPSC: Network routers

Specifications / Requirements:

Item: Wi-Fi Routers UNSPSC: Network routers Specifications / Requirements: Supply and Installation of Bridge, WMM, Wireless Schedule, Wireless Statistics, Access Point mode Wireless Security WPA/WPA2/WPA3 encryptions Transmission Power CE: 20 dBm(2.4 GHz), 23 dBm (5 GHz) Mesh Technology Easy Mesh compatible and supports 802.11 k/v SOFTWARE FEATURES Quality of Service WMM, Bandwidth Control WAN Type Dynamic IP, Static IP, PPPoE, PPTP, L2TP Management Features Local management: WebGUI, Aginet app Remote management: TR-069, TR-181, TR-111, TR-143, Aginet ACS DHCP Server, Client, DHCP Client List, Address Reservation Port Forwarding Virtual Server, Port Triggering, DMZ, UPnP PVPN Pass-Through PPTP, L2TP, IP Sec Access Control Parental Controls, Local Management Control, Host List, White List, Black List Firewall Security DoS, SPI Firewall, IP Address Filter, IP and MAC Address Binding Protocols Supports IPv4 and IPv6 OTHERS Package Content AC1200 Wireless Dual Band Gigabit Router EC220-G5 Power Supply Unit RJ45 Ethernet Cable Quick Installation Guide Requirements Microsoft Windows 98SE/NT/2000/XP/Vista™/7/8/8.1/10/11, MAC OS, NetWare, UNIX or Linux Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other Java-enabled browser Cable or DSL Modem (if needed) Subscription with an internet service provider (for internet access) Certifications CE, RoHS Environment Operating Temperature: 0°C - 40°C (32°F - 104°F) Storage Temperature: -40°C - 60°C (-40°F - 140°F) Operating Humidity: 10% - 90% non-condensing Storage Humidity: 5% - 90% non-condensing Or Equivalent

Item: Heavy Duty (Black & White) Printer

UNSPSC: Laser printers

Specifications / Requirements:

Item: Heavy Duty (Black & White) Printer UNSPSC: Laser printers Specifications / Requirements: • Print: speed black (ISO, A4) Up to 40 ppm • Duty cycle: (monthly, letter) Up to 80,000 pages Up to 80,000 pages • Recommended monthly page volume: 750 to 4,000 • Print quality: black (best) Fine Lines (1200 x 1200 dpi) • Display: 2-line backlit LCD graphic display • Processor speed: 1200 MHz Maximum • Memory: 256 MB • Operating Systems: Windows 11; Windows 10; Android; iOS; • Paper handling input Standard: 100-sheet

multipurpose • Tray 1: 250-sheet input • Tray 2: Paper handling output, standard 150-sheet output • Power consumption: 495 watts (active printing), 5.5 watts (ready), 0.5 watts (sleep), 0.5 (Auto Off/Wake on LAN, enabled at shipment), 0.05 watts (Auto-off/Manual-on), 0.05 (Manual Off) • Operating temperature range 10 to 32.5° • Dimensions: (W x D x H) 381 x 357 x 216 mm (Without trays and covers not extended) • Maximum dimensions (W x D x H) 381 x 634 x 241 mm (Without trays and covers not Declared yields Or Equivalent

Item: Multi- Function (Color Printer)

UNSPSC: Multi function printers

Specifications / Requirements:

Item: Multi- Function (Color Printer) UNSPSC: Multi function printers Specifications / Requirements: • Functions: Print, copy, scan • Print Cartridges/Bottle, Number: 1 (black) • Print speed: black (ISO, A4) Normal: Up to 20 ppm • First page out (ready) Black: As fast as 8.3 sec • Duty cycle (monthly, A4): Up to 10,000 pages • Recommended monthly page volume: 100 to 2,000 • Print technology: Laser • Print quality black (best): Black: Up to 1,200 x 1,200 dpi Color: • Display: 2-Line LCD (16 characters per line) • Processor speed: 600 MHz • Memory maximum: 128 MB 128 MB (System Memory), Not expanded • Media sizes supported: A4; A5; A5 (LEF); B5 (JIS); Oficio; Envelope (DL, C5) • Media sizes, custom: 76 x 127 to 216 x 356 mm • Paper handling input, standard: 150-sheet input tray • Paper handling output, standard: 100-sheet output bin • Maximum output capacity (sheets): Up to 100 sheets • Scanner type: Flatbed • Scan resolution, optical: Up to 600 × 600 dpi • Scan size (ADF), minimum 145 x 145 mm • Automatic document feeder capacity: Standard, 40 sheets • Copy speed (normal): Black: Up to 20 cpm Color • Copy resolution: (black text) Up to 600 x 600 dpi • Copies, maximum: Up to 99 copies • Power: 110-volt input voltage: 110 to 127 VAC, 50/60Hz and 220-volt input voltage: 220 to 240 VAC, 50/60Hz • Package dimensions: (W x D x H) 482 x 447 x 361 mm Or Equivalent

Item: Inverter Air Conditioner

UNSPSC: Air conditioners

Specifications / Requirements:

Item: Inverter Air Conditioner UNSPSC: Air conditioners Specifications / Requirements: Supply and complete Installation of wall mounted Split Air Conditioners (Invertor, Energy Saver Model with T3 Compressor) 1.5 Ton with copper piping as per requirement. Or Equivalent

Item: Electric Wiring for Air Conditioner

UNSPSC: Wiring duct fitting and accessories

Specifications / Requirements:

Item: Electric Wiring for Air Conditioner UNSPSC: Wiring duct fitting and accessories Specifications / Requirements: Provision, laying and terminals of Wiring for Air Conditioners points with 4mmx3 electric cables, Circuit Brakers in Distribution Box with Ducts and other required hardware as per requirement. Complete in all respects. Cables shall be used of approved brand of PWD. including circuit brakers in lab's independent Distribution Box/Surge Control.

Item: Network Switches

UNSPSC: Network switches

Specifications / Requirements:

Item: Network Switches UNSPSC: Network switches Specifications / Requirements: 52-Port Gigabit L2+ Managed Switch with 48-Port PoE+PORT: 48× Gigabit PoE+ Ports, 4× Gigabit SFP Slots, RJ45/Micro-USB Console PortSPEC: 802.3at/af, 384 W PoE Power, 1U 19-inch Rack-mountable Steel Case FEATURE: Integration with Omada SDN Controller, Static Routing, 802.1Q VLAN, QinQ, STP/RSTP/MSTP, IGMP Snooping, 802.1p/DSCP QoS, ACL, 802.1x, Radius/Tacacs+ Authentication, LACP, CLI, SNMP, Dual Image/Configuration, IPv6 Or Equivalent

Item: LAN Works

UNSPSC: Local area network LAN maintenance or support

Specifications / Requirements:

Item: LAN Works UNSPSC: Local area network LAN maintenance or support Specifications / Requirements: Provision, laying and terminals of Cat-6 Cable, with single shutter Face Plate, with I/Os, with 2 No. of Drop cords at both ends, RJ-45 Connectors, IT Rack of 12U including Cable manager, PDU, Tray and any other required hardware. Complete in all respects. Or Equivalent

Item: Computer Table for Students

UNSPSC: Student computer tables

Specifications / Requirements:

Item: Computer Table for Students UNSPSC: Student computer tables Specifications / Requirements: Supplying and installation of Computer Table for each student with required width of 2.5 feet, height 2.5 feet and 2.0 feet deep, made with Laminated MDF sheet, with PVC edging, with keyboard tray, CPU place, legs made of Powder coated MS Pipe of 1"x2.5" in charcoal grey color as per given picture. Complete in all respects Or Equivalent

Item: Computer Table for Teachers

UNSPSC: Classroom tables

Specifications / Requirements:

Item: Computer Table for Teachers UNSPSC: Classroom tables Specifications / Requirements: Supplying and installation of Computer Table for Teacher with required width of 3.5 feet, height 2.5 feet and 2.0 feet deep, made with Laminated MDF sheet, with PVC edging, with keyboard tray, CPU place, MS Frame of 1"x2.5" pipe made of Powder coated in charcoal grey color as per given picture. Complete in all respects

Item: Chairs for students

UNSPSC: Classroom chairs

Specifications / Requirements:

Item: Chairs for students UNSPSC: Classroom chairs Specifications / Requirements: Provision of computer chair for student, with fabric on seat and back, with arms and star base with hydraulic system and wheels. Complete in all respects. As per picture shown. Or Equivalent

Item: Chairs for Teachers

UNSPSC: Chairs

Specifications / Requirements:

Item: Chairs for Teachers UNSPSC: Chairs Specifications / Requirements: Provision of Teacher chair, high back, with fabric on seat and back, with arms and star base with hydraulic system and wheels. Complete in all respects. As per attached drawing. Or Equivalent

Item: Audio System with Mic and all accessories

UNSPSC: Home high fidelity audio system

Specifications / Requirements:

Item: Audio System with Mic and all accessories UNSPSC: Home high fidelity audio system Specifications / Requirements: Built-in Bluetooth & USB for wireless and direct media playback. 4-channel digital gateway for multiple audio inputs. USB gateway for seamless connectivity with computers and external devices. Adjustable bass, treble, and volume control for optimized sound quality. Compatible with wall-mounted and ceiling speakers for even sound distribution. Wall mount Speakers (04) Minimum Power Output: 30W or higher. Frequency Range: 80Hz - 20kHz (Ensures clear voice and multimedia playback. Sensitivity: 90±2dB (Delivers loud and clear sound) UHF Dual Microphone Set (or higher) Wireless handheld microphone for interactive lectures/presentations. Wireless collar microphone (lapel) for hands-free operation. UHF frequency band to prevent interference and ensure clear sound. Or Equivalent

Item: Electric Wiring Points for Computers and Other Equipment

UNSPSC: Electrical wire or cable raceway

Specifications / Requirements:

Item: Electric Wiring Points for Computers and Other Equipment UNSPSC: Electrical wire or cable raceway Specifications / Requirements: Provision, laying and terminals of Wiring for computers points in each lab with 2.5mm and required electric cables, with face plate of 13amp multi socket of clipsal/schneider make, with back boxes. with required Circuit Brakers

in main distribution box. Complete in all respects. Cables should be used of approved brand of PWD. including circuit breakers in lab's independent Distribution Box/Surge Control. Or Equivalent

Item: Main Power Cable

UNSPSC: Power cable

Specifications / Requirements:

Item: Main Power Cable UNSPSC: Power cable Specifications / Requirements: Provision, laying and terminals of main power cable in each lab of 16mmx4 core power cable, with connection to Distribution Box of PWD Approved brand, with required pipes or ducts at any height. Complete in all respects. Or Equivalent

Item: Grounding Works

UNSPSC: Grounding devices or assemblies

Specifications / Requirements:

Item: Grounding Works UNSPSC: Grounding devices or assemblies Specifications / Requirements: "For each Lab" Provision and fixing Earthing set for each lab with 2'x2'x1/4" copper plate, around 12 feet deep, with fixing of 8 SWG copper wire in 1/2" G.I conduit with 1 x 16sq.mm single core PVC cable for Main DB. Or the earthing bore with Earth Electrode rod 3.5 mtr long and 16mm dia connected with 1x16mm2 Stranded Copper Wire laid up to the test link, with G.I. pipe and all accessories. Drilling of bore should be up to water table. with 1 x 16sq.mm single core PVC cable in PVC pipe for Main DB complete in all respect as required. Or Equivalent

Item: UPS

UNSPSC: Uninterruptible power supply UPS

Specifications / Requirements:

Item: UPS UNSPSC: Uninterruptible power supply UPS Specifications / Requirements: Provision and installation of UPS for each lab that Should Fall in CATEGORY "A" or "B" as per

Pakistan Customs Rulings of 3000 VA / 2400 W for 10 minutes backup with required batteries:- Input • Voltage Range: 95VAC/85VAC/75VAC/65VAC or 175VAC/155VAC/135VAC/125VAC $\pm$ 5% • High Line Transfer: 145 VAC $\pm$ 5% or 300 VAC $\pm$ 5% • High Line Comeback: 140 VAC $\pm$ 5% or 290 VAC $\pm$ 5% • Frequency Range: 40Hz ~ 70 Hz • Phase: Single phase with ground • Power Factor: $\geq$ 0.99 @ nominal voltage (input voltage) Output • Output Voltage: 100/110/115/120/127VAC or 200/208/220/230/240VAC • AC Voltage Regulation: $\pm$ 1% (Battery Mode) • Frequency Range: 47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range) • Frequency Range (Battery Mode): 50 Hz $\pm$ 0.25 Hz or 60 Hz $\pm$ 0.3 Hz • Current Crest Ratio: 3:1 • Harmonic Distortion: $\leq$ 3% THD (linear load); $\leq$ 6% THD (non-linear load) • Transfer Time: Inverter to Bypass 4 ms (Typical) • Waveform (Battery Mode): Pure Sinewave Efficiency • AC Mode: 88% 89% 90% • Battery Mode 83% 87% 88% Battery • Battery Numbers: 3 6 6 • Charging Current: 1.0A/2.0A/4.0A/6.0A (adjustable through the jumper settings on charger board) • Charging Voltage: 41.0 VDC $\pm$ 1% 82.1 VDC $\pm$ 1% 82.1 VDC $\pm$ 1% Physical • Dimension, D $\times$ W $\times$ H, mm: 282 $\times$ 145 $\times$ 220 397 $\times$ 145 $\times$ 220 • Net Weight (kgs): 4.1 6.8 7.4 Environment • Operation Humidity: 20 - 90% RH @ 0 - 40° C (non-condensing) • Noise Level: Less than 50dBA @ 1 Meter Management • Smart RS-232 or USB: Supports Windows® 2000/2003/XP/Vista/2008/7, Linux, Unix and MAC • Optional SNMP: Power management from SNMP manager and web browser Agency • Compliance: CE, RoHS, WEEE Or Equivalent

Item: Enamel Paint

UNSPSC: Enamel paints

Specifications / Requirements:

Item: Enamel Paint UNSPSC: Enamel paints Specifications / Requirements: For each Lab Super Glass Synthetic Enamel Paint: Applying two coats of enamel paint on existing Door and Windows.

Item: CCTV Camera System

UNSPSC: Closed circuit television CCTV system

Specifications / Requirements:

Item: CCTV Camera System UNSPSC: Closed circuit television CCTV system Specifications / Requirements: . CCTV Cameras (4 cameras based) complete in all respects for each lab Type: 4MP PoE IP Bullet Cameras. Compression: H.265 video encoding. Night Vision: Capability up to 30 meters. Weatherproofing: IP67-rated housing. Lens: Fixed focal length (2.8mm or 4mm options). Audio: Built-in microphone Channels: 8-channel PoE NVR with 4TB pre-installed storage (expandable). Output: HDMI and VGA ports for live monitoring.

Remote Access: Support for mobile apps (iOS/Android), web, and desktop software. Recording Modes: o Continuous recording. o Motion-activated recording. or Scheduled recording.

Storage Retention: Minimum 15 days of video retention with 4TB HDD. . Network and Power 6u Rack, PoE Switch: 8-port PoE switch Installation & Cabling: Cat6 cables (100% copper, certified for PoE). Or Equivalent

Item: Tile Flooring

UNSPSC: Porcelain

Specifications / Requirements:

Item: Tile Flooring UNSPSC: Porcelain Specifications / Requirements: For Each Lab Provision and Installation of Porcelain Tiles of 24"x24" with wall skirting 6" , made in Pakistan, in class room with all required materials. Complete in all respects.

Item: Tube Lights

UNSPSC: Longwall lighting

Specifications / Requirements:

Item: Tube Lights UNSPSC: Longwall lighting Specifications / Requirements: For each Lab Top Brand or equivalent tube lights (40 Watts or above) to be provided and installed.

Item: False Ceiling 2' x2' , Gypsum

UNSPSC: Ceiling panels

Specifications / Requirements:

Item: False Ceiling 2' x2' , Gypsum UNSPSC: Ceiling panels Specifications / Requirements: For each Lab Provision and fixing of 2' x2' Gypsum Board Ceiling in with T and L suspension system with groove, hanged with ceiling. Complete in all respects.

Item: Windows Roller Blinds

UNSPSC: Vertical blinds

Specifications / Requirements:

Item: Windows Roller Blinds UNSPSC: Vertical blinds Specifications / Requirements: For all windows in each Lab Provision and Installation of Windows Roller Blinds as per Lab Requirement. Complete in all respect.

Item: Hard Wall Paneling

UNSPSC: Panels or paneling

Specifications / Requirements:

Item: Hard Wall Paneling UNSPSC: Panels or paneling Specifications / Requirements: Provision and fixing of Hard PVC Paneling with required hardware' s for each lab. Complete in all respects.

Item: Window Broken Glasses Replacement

UNSPSC: Window and door and screening installation and repair service

Specifications / Requirements:

Item: Window Broken Glasses Replacement UNSPSC: Window and door and screening installation and repair service Specifications / Requirements: Replacement of glass of all broken windows of each Lab as per requirement. Complete in all respects.

Item: Ceiling Fans

UNSPSC: Ceiling fan

Specifications / Requirements:

Item: Ceiling Fans UNSPSC: Ceiling fan Specifications / Requirements: Provision and installation 2' x2' ceiling fans of Top Pakistani Brand(s) or equivalent brand. Complete in all respects.

Item: Miscellaneous

UNSPSC: Miscellaneous

Specifications / Requirements:

Item: Miscellaneous UNSPSC: Miscellaneous Specifications / Requirements: Any other renovation / repair work required in the lab(s) will be paid as per market rates.

Price Schedule

For Individual Items

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

For Lots

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

Scope of Work / Specifications / BOQ

Item Name	Specifications	Unit	Per Lab Qty	Total Qty
75" Interactive Smart Screens	75" Smart Interactive Display • Backlight: DLED backlight • Panel size: 75 inches, Resolution: 3840*2160 • Brightness (cd/m²): 350, Contrast ratio: 4000:1, Color support: 1.07 billion colors • Response time: 8ms, Viewing angle (H/V) 178°/178° • CPU architecture: GK6760V100, CPU operating frequency: Octa-core A55 1.2GHz • RAM/ROM DDR4: 8GB eMMC:128GB • System version Android: 14.0 • Touch control: Contactless IR sensor, supports 20-point touch, Touch precision (mm): ±2 • Glass: 3mm tempered glass, level 7 on Mohs hardness scale, anti-glare • Input method: Opaque objects (e.g. fingers, pens) • Video Input: 2 x HDMI IN, Audio Output: 1 x Line OUT 1 x Coax OUT • Other Interfaces: 2 x Touch USB, 1 x Type C, 5 x USB 2.0, 1 x RS232, 1 x TF card • Rear interface: 1 x RJ45, supports 10M/100M Base-T self-adaptive • Speaker: 2 x 15W, Channel: 2.0 • Camera 48MP (Android: Pixel 8MP for Photos & 2MP for Video) (Windows: Pixel 48MP for Photos & 48MP for Video) • Microphone array: 8, Pickup distance: 8, Function Voice tracking • Wi-Fi 5, supports 5G/2.4G, Performance: 0~12m distance in open space • Bluetooth Version: 5.0, Performance: 12m transmission distance in open space • Accessories included: 1*power cable, 2* Touch Pen, 1*quick guide, 1* remote control, 1* wall mounting bracket, 2 x rod antenna Or Equivalent	No.	1	8
OPS for Interactive Smart Screen	OPS for Smart Interactive Display • CPU: Intel i5-12450H, Cores: 8, Threads: 12 • CPU Frequency: 2.0 GHz, Max. Turbo Frequency 4.4 GHz • RAM: 8 GB DDR4, support for expansion up to 32 GB • ROM: 256 GB SSD • Operation System: Windows 11 Enterprise (not activated) • USB: 4 x USB 3.0, 2 x USB 2.0, 1 x USB 3.0 USB Type-C • Audio: 1 x MIC, 1 x Line Out • HDMI: 1 x HDMI (Max. Resolution: 3840 x 2160@60 Hz) • DP: 1 x DP (Max. Resolution: 3840 x 2160@60 Hz) • Network: 1 x RJ45 (10/100/1000M) • Antenna: 2 x dual-band antenna • Reset Key: 1 x Reset Key, • Power: on/off Switch 1 x power on/off switch • Power Indicator: 1 x power indicator • WLAN: 1 x M.2 2230 (Support Cnvi and WIFI 6E, BT 5.2) Or Equivalent	No.	1	8

Desktop Computers with Screen	Only, Gartner's top 6 manufacturers products with below mentioned equivalent or above specs with Supply and Installation of:- Desktop Computers: Processor Intel Core Ultra 7 265, 20C (8P + 12E) / 20T, Max Turbo up to 5.3GHz, 30MB Intel Smart Cache AI PC Category [1] AI PC NPU Integrated Intel AI Boost, up to 13 TOPS Graphics Integrated Intel Graphics Chipset Intel B860 ChipsetMemory1x 16GB UDIMM DDR5-5600 Memory SlotsTwo DDR5 UDIMM slots, dual-channel capable Max Memory Up to 64GB DDR5-5600 Storage512GB SSD M.2 2280 PCIe 4.0x4 NVMe Max Storage SupportUp to three drives, 1x 3.5" HDD + 2x M.2 SSD • 3.5" HDD up to 2TB • M.2 SSD up to 1TB each For installing HDD storage, 3.5" HDD screw and grommet kit is needed. Audio Chip High Definition (HD) Audio, Realtek ALC623-CG codecSpeakers2Wx1Power Supply310W 92%KeyboardUSB, Calliope, Black, English (EU)Mouse USB Calliope Mouse, Black Optional Bay3.5" HDD Bracket Expansion Slots One PCIe 4.0 x16, full-height, length ≤ 233.6mm, height ≤ 117.5mm One PCIe 3.0 x1, full-height, (length ≤ 185mm, height ≤ 100mm) or (length ≤ 118mm, height ≤ 110mm) Three M.2 slots (one for WLAN, two for SSD)WLAN + Bluetooth Intel Wi-Fi 6 AX203, 802.11ax 2x2 + BT5.2WWANNon-WWANEthernetRTL8111K, 1x RJ-45Front Ports1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with data transfer and 15W charging 2x USB-A (Hi-Speed USB / USB 2.0) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1) 1x headphone / microphone combo jack (3.5mm) 1x microphone (3.5mm)Rear Ports2x USB-A (Hi-Speed USB / USB 2.0) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On 1x HDMI 2.1 TMDS 1x DisplayPort 1.4 1x VGA 1x Ethernet (RJ-45) 1x line-out (3.5mm)Security Chip Discrete TPM 2.0, TCG certified, FIPS 140-2 certified Physical Locks Kensington Security Slot, 3 x 7 mm Padlock Loop Chassis Intrusion Switch Chassis Intrusion Switch Included Upgrade3Y Onsite upgrade from 1Y Courier/Carry-in (CPN)Green Certifications RoHS / WEEE / REACH Other Certifications TÜV Rheinland Ultra Low Noise Operating System Windows 11 Pro, English OEM Preinstalled Windows with BIOS embedded. Screen Size :23.8". Brightness 250 cd/m² (typical). Aspect Ratio 16:9. Contrast Ratio 1500:1. Backlight WLED. Response Time. 1 ms (MPRT), 4 ms (Extreme Mode), 6 ms (Normal Mode), 14 ms (Off Mode). Panel Type In-Plane Switching Viewing Angle. 178° / 178°. Stand Tilt 0.83 kg / 1.64 lbs.t Angle (-5° / 22°). Power Requirement 100 - 240 VAC, 50 - 60 Hz. Energy Star 8.0. Included Accessory HDMI cable. Color Coverage 99% sRGB. Color Depth 8-bit. Color Support 16.7 Million. Integrated Speaker Yes (2 x 3W). Kensington Lock Yes. Near Edgeless 4-sided ultra thin bezel. Power Consumption 14W Typ, 28W Max, 0.5W Sleep, 0.3W Power Off. Maximum Resolution 1920 x 1080. Connection Type 1 x HDMI 1.4, 1 x VGA 1 x Audio Out (3.5 mm). Warranty. 3-Year limited. Resolution 1920 x 1080. Refresh Rate 100 Hz Or Equivalent	No.	41	328
Wi-Fi Routers	Supply and Installation of Bridge, WMM, Wireless Schedule, Wireless Statistics, Access Point mode Wireless Security WPA/WPA2/WPA3 encryptions Transmission Power CE: <20 dBm(2.4 GHz), <23 dBm (5 GHz) Mesh Technology Easy Mesh compatible and supports 802.11 k/v SOFTWARE FEATURES Quality of Service WMM, Bandwidth Control WAN Type Dynamic IP, Static IP, PPPoE, PPTP, L2TP Management Features Local management: WebGUI, Aginet app Remote management: TR-069, TR-181, TR-111, TR-143, Aginet ACS DHCP Server, Client, DHCP Client List, Address Reservation Port Forwarding Virtual Server, Port Triggering, DMZ, UPn PVPN Pass-Through PPTP, L2TP, IP Sec Access Control Parental Controls, Local Management Control, Host List, White List, Black List Firewall Security DoS, SPI Firewall, IP Address Filter, IP and MAC Address Binding Protocols Supports IPv4 and IPv6OTHERSPackage ContentAC1200 Wireless Dual Band Gigabit Router EC220-G5Power Supply UnitRJ45 Ethernet Cable Quick Installation Guide Requirements Microsoft Windows	No.	1	8

	98SE/NT/2000/XP/Vista™/7/8/8.1/10/11, MAC OS, NetWare, UNIX or Linux Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other Java-enabled browser Cable or DSL Modem (if needed) Subscription with an internet service provider (for internet access) Certifications CE, RoHS Environment Operating Temperature: 0°C–40°C (32°F–104°F) Storage Temperature: -40°C–60°C (-40°F–140°F) Operating Humidity: 10%–90% non-condensing Storage Humidity: 5%–90% non-condensing Or Equivalent			
Network Switches	52-Port Gigabit L2+ Managed Switch with 48-Port PoE+PORT: 48× Gigabit PoE+ Ports, 4× Gigabit SFP Slots, RJ45/Micro-USB Console Port SPEC: 802.3at/af, 384 W PoE Power, 1U 19-inch Rack-mountable Steel Case FEATURE: Integration with Omada SDN Controller, Static Routing, 802.1Q VLAN, QinQ, STP/RSTP/MSTP, IGMP Snooping, 802.1p/DSCP QoS, ACL, 802.1x, Radius/Tacacs+ Authentication, LACP, CLI, SNMP, Dual Image/Configuration, IPv6 Or Equivalent	No.	1	8
Heavy Duty (Black & White) Printer	• Print: speed black (ISO, A4) Up to 40 ppm • Duty cycle: (monthly, letter) Up to 80,000 pages Up to 80,000 pages • Recommended monthly page volume: 750 to 4,000 • Print quality: black (best) Fine Lines (1200 x 1200 dpi) • Display: 2-line backlit LCD graphic display • Processor speed: 1200 MHz Maximum • Memory: 256 MB • Operating Systems: Windows 11; Windows 10; Android; iOS; • Paper handling input Standard: 100-sheet multipurpose • Tray 1: 250-sheet input • Tray 2: Paper handling output, standard 150-sheet output • Power consumption: 495 watts (active printing), 5.5 watts (ready), 0.5 watts (sleep), 0.5 (Auto Off/Wake on LAN, enabled at shipment), 0.05 watts (Auto-off/Manual-on), 0.05 (Manual Off) • Operating temperature range 10 to 32.5° • Dimensions: (W x D x H) 381 x 357 x 216 mm (Without trays and covers not extended) • Maximum dimensions (W x D x H) 381 x 634 x 241 mm (Without trays and covers not Declared yields) Or Equivalent	No.	1	8
Multi-Function (Color Printer)	• Functions: Print, copy, scan • Print Cartridges/Bottle, Number: 1 (black) • Print speed: black (ISO, A4) Normal: Up to 20 ppm • First page out (ready) Black: As fast as 8.3 sec • Duty cycle (monthly, A4): Up to 10,000 pages • Recommended monthly page volume: 100 to 2,000 • Print technology: Laser • Print quality black (best): Black: Up to 1,200 x 1,200 dpi Color: • Display: 2-Line LCD (16 characters per line) • Processor speed: 600 MHz • Memory maximum: 128 MB 128 MB (System Memory), Not expanded • Media sizes supported: A4; A5; A5(LEF); B5 (JIS); Oficio; Envelope (DL, C5) • Media sizes, custom: 76 x 127 to 216 x 356 mm • Paper handling input, standard: 150-sheet input tray • Paper handling output, standard: 100-sheet output bin • Maximum output capacity (sheets): Up to 100 sheets • Scanner type: Flatbed • Scan resolution, optical: Up to 600 × 600 dpi • Scan size (ADF), minimum 145 x 145 mm • Automatic document feeder capacity: Standard, 40 sheets • Copy speed (normal): Black: Up to 20 cpm Color • Copy resolution: (black text) Up to 600 x 600 dpi • Copies, maximum: Up to 99 copies • Power: 110-volt input voltage: 110 to 127 VAC, 50/60Hz and 220-volt input voltage: 220 to 240 VAC, 50/60Hz	No.	1	8

	• Package dimensions: (W x D x H) 482 x 447 x 361 mm Or Equivalent			
Inverter Air Conditioner	Supply and complete Installation of wall mounted Split Air Conditioners (Invertor, Energy Saver Model with T3 Compressor) 1.5 Ton with copper piping as per requirement. Or Equivalent	No.	3	24
Electric Wiring for AC's	Provision, laying and terminals of Wiring for Air Conditioners points with 4mmx3 electric cables, Circuit Brakers in Distribution Box with Ducts and other required hardware as per requirement. Complete in all respects. Cables shall be used of approved brand of PWD. including circuit brakers in lab's independent Distribution Box/Surge Control. Or Equivalent	No.	3	24
LAN Works	Provision, laying and terminals of Cat-6 Cable, with single shutter Face Plate, with I/Os, with 2 No. of Drop cords at both ends, RJ-45 Connectors, IT Rack of 12U including Cable manager, PDU, Tray and any other required hardware. Complete in all respects. Or Equivalent	No.	45	360
Computer Table for Students	Supplying and installation of Computer Table for each student with required width of 2.5 feet, height 2.5 feet and 2.0 feet deep, made with Laminated MDF sheet, with PVC edging, with keyboard tray, CPU place, legs made of Powder coated MS Pipe of 1"x2.5" in charcoal grey color as per given picture. Complete in all respects Or Equivalent	No.	40	320
Computer Table for Teachers	Supplying and installation of Computer Table for Teacher with required width of 3.5 feet, height 2.5 feet and 2.0 feet deep, made with Laminated MDF sheet, with PVC edging, with keyboard tray, CPU place, MS Frame of 1"x2.5" pipe made of Powder coated in charcoal grey color as per given picture. Complete in all respects Or Equivalent	No.	1	8
Chairs for Students	Provision of computer chair for student, with fabric on seat and back, with arms and star base with hydraulic system and wheels. Complete in all respects. As per picture shown. Or Equivalent	No.	40	320
Chairs for Teachers	Provision of Teacher chair, high back, with fabric on seat and back, with arms and star base with hydraulic system and wheels. Complete in all respects. As per attached drawing. Or Equivalent	No.	1	8
Audio System with Mic and all accessories	Built-in Bluetooth & USB for wireless and direct media playback. 4-channel digital gateway for multiple audio inputs. USB gateway for seamless connectivity with computers and external devices. Adjustable bass, treble, and volume control for optimized sound quality. Compatible with wall-mounted and ceiling speakers for even sound distribution. Wall mount Speakers (04) Minimum Power Output: 30W or higher. Frequency Range: 80Hz–20kHz (Ensures clear voice and multimedia playback. Sensitivity: 90±2dB (Delivers loud and clear sound) UHF Dual Microphone Set (or higher) Wireless handheld microphone for interactive lectures/presentations. Wireless collar microphone (lapel) for hands-free operation. UHF	No.	1	8

	frequency band to prevent interference and ensure clear sound.			
	Or Equivalent			
Electric Wiring Points for Computers and Other Equipment	Provision, laying and terminals of Wiring for computers points in each lab with 2.5mm and required electric cables, with face plate of 13amp multi socket of clipsal/schneider make, with back boxes. with required Circuit Brakers in main distribution box. Complete in all respects. Cables should be used of approved brand of PWD. including circuit brakers in lab's independent Distribution Box/Surge Control.	No.	1	8
	Or Equivalent			
Main Power Cable	Provision, laying and terminals of main power cable in each lab of 16mmx4 core power cable, with connection to Distribution Box of PWD Approved brand, with required pipes or ducts at any height. Complete in all respects.	No.	1	8
	Or Equivalent			
Grounding Works	Provision and fixing Earthing set for each lab with 2'x2'x1/4" copper plate, around 12 feet deep, with fixing of 8 SWG copper wire in 1/2" G.I conduit with 1 x 16sq.mm single core PVC cable for Main DB. Or the earthing bore with Earth Electrode rod 3.5 mtr long and 16mm dia connected with 1x16mm2 Stranded Copper Wire laid up to the test link, with G.I. pipe and all accessories. Drilling of bore should be up to water table. with 1 x 16sq.mm single core PVC cable in PVC pipe for Main DB complete in all respect as required.	No.	1	8
	Or Equivalent			
UPS	Provision and installation of UPS for each lab that Should Fall in CATEGORY "A" or "B" as per Pakistan Customs Rulings of 3000 VA / 2400 W for 10 minutes backup with required batteries:- Input • Voltage Range: 95VAC/85VAC/75VAC/65VAC or 175VAC/155VAC/135VAC/125VAC ± 5% • High Line Transfer: 145 VAC ± 5% or 300 VAC ± 5% • High Line Comeback: 140 VAC ± 5% or 290 VAC ± 5% • Frequency Range: 40Hz ~ 70 H+C1z • Phase: Single phase with ground • Power Factor: _ 0.99 @ nominal voltage (input voltage) Output • Output Voltage: 100/110/115/120/127VAC or 200/208/220/230/240VAC • AC Voltage Regulation: ±1% (Battery Mode) • Frequency Range: 47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range) • Frequency Range (Battery Mode): 50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz • Current Crest Ratio: 3:1 • Harmonic Distortion: _ 3% THD (linear load); _ 6% THD (non-linear load) • Transfer Time: Inverter to Bypass 4 ms (Typical) • Waveform (Battery Mode): Pure Sinewave Efficiency • AC Mode: 88% 89% 90% • Battery Mode 83% 87% 88% Battery • Battery Numbers: 3 6 6 • Charging Current: 1.0A/2.0A/4.0A/6.0A (adjustable through the jumper settings on charger board) • Charging Voltage: 41.0 VDC ± 1% 82.1 VDC ± 1% 82.1 VDC ± 1% Physical • Dimension, D × W × H, mm: 282 × 145 × 220 397 × 145 × 220 • Net Weight (kgs): 4.1 6.8 7.4 Environment • Operation Humidity: 20–90% RH @ 0–40°C (non-condensing)	No.	1	8

	• Noise Level: Less than 50dBA @ 1 Meter Management • Smart RS-232 or USB: Supports Windows® 2000/2003/XP/Vista/2008/7, Linux, Unix and MAC • Optional SNMP: Power management from SNMP manager and web browser Agency • Compliance: CE, RoHS, WEEE Or Equivalent			
CCTV Camera System	• CCTV Cameras (4 cameras based) complete in all respects • Type: 4MP PoE IP Bullet Cameras. • Compression: H.265 video encoding. • Night Vision: Capability up to 30 meters. • Weatherproofing: IP67-rated housing. • Lens: Fixed focal length (2.8mm or 4mm options). • Audio: Built-in microphone • Channels: 8-channel PoE NVR with 4TB pre-installed storage (expandable). • Output: HDMI and VGA ports for live monitoring. • Remote Access: Support for mobile apps (iOS/Android), web, and desktop software. • Recording Modes: - o Continuous recording. - o Motion-activated recording. or Scheduled recording. • Storage Retention: Minimum 15 days of video retention with 4TB HDD. • Network and Power • 6u Rack, PoE Switch: 8-port PoE switch • Installation & Cabling: Cat6 cables (100% copper, certified for PoE). Or Equivalent	No.	1	8
Renovation Works:-				
Enamel Paint	For each Lab Super Glass Synthetic Enamel Paint: Applying two coats of enamel paint on existing Door and Windows.	Sft	1000	8000
Tile Flooring	For Each Lab Provision and Installation of Porcelain Tiles of 24"x24" with wall skirting 6", made in Pakistan, in class room with all required materials. Complete in all respects.	Sft	2000	16000
Tube Lights	Top Brand or equivalent tube lights (40 Watts or above) to be provided and installed.	No.	8	64
False Ceiling 2'x2', Gypsum Board with T and Angles.	Provision and fixing of 2'x2' Gypsum Board Ceiling in with T and L suspension system with groove, hanged with ceiling. Complete in all respects.	Sft	2000	16000
Windows Roller Blinds	Provision and Installation of Windows Roller Blinds as per Lab Requirement. Complete in all respect.	No.	8	64
Hard Wall Paneling	Provision and fixing of Hard PVC Paneling with required hardware's for each lab. Complete in all respects.	Sft	2000	16000
Window Broken Glasses Replacement	Replacement of glass of all broken windows of each Lab as per requirement. Complete in all respects.	No	4	32
Ceiling Fans	Provision and installation 2'x2' ceiling fans of Top Pakistani Brand(s) or equivalent brand. Complete in all respects.	No.	8	64
Any Other renovation works	Any other renovation work required will be paid as per market rates.			

Location of IT Labs: To be indicated to successful bidder only by NAVTTC after qualifying as the most advantageous bid

Bidder Terms and Conditions:

For Desktops, Network Router, Network Switch, Interactive Smart Screen:

- Undertaking on legal attested stamp paper must be attached showing that the equipment / supplies quoted by the firm are imported through legal channel/(s) and no grey channel / smuggled product / international warranty / refurbished / altered / remodified equipment is quoted.
- Undertaking on legal, valid and attested Rs 100 stamp paper that the firm has never been blacklisted or in any kind of litigation by any of Provincial or Federal Government Departments, Agencies, Organizations, autonomous bodies anywhere in Pakistan.
- A Certificate on the Official Letterhead that the quoted products Hundred Percent (100%) comply with the technical specifications mentioned in the bidding documents.
- Participating firm must provide Manufacturer's Authorization Letter from Principal in the name of tender undersigned. The undersigned may verify the genuineness of the authorization letter from the principal. If the letter is found fake, forged or altered in any way, a very strict action will be taken against the fraudulent bidder.
- The Principal Manufacturer must have nationwide presence in Pakistan especially in Karachi.
- All proposed products specification must be equivalent or above of the specs mentioned in the Tender Document.

Lab Furniture Designs:

Student Table (Width : 3')	
Student Chair	
Teacher Chair	
Teacher Table (Width : 3.5')	

Lab Layout:



LAB LAYOUT





General Conditions of Contract

A. General

1. Definitions

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

- a. "Applicable Law" means the laws and any other instruments having the force of law in the Government's Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;
- b. "Procuring Agency" means:-
 - a. any Ministry, Division, Department or any Office of the Government;
 - b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;
- c. "The Contract" means an agreement enforceable by law;
- d. "The Contract Price" means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;
- e. "Ancillary Services" means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;
- f. "GCC" means the General Conditions of Contract contained in this section;
- g. "SCC" means the Special Conditions of Contract by which the GCC may be amended or supplemented;
- h. "Day" means calendar day unless indicated otherwise.
- i. "Effective Date" means the date on which this Contract comes into force and effect.
- j. "The Bidder" means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;
- k. "The Project Site," where applicable, means the place or places named in Bids Data Sheet and technical Specifications;
- l. "Government" means the Government of Pakistan;
- m. "Subcontractor" means any entity to which the Bidder subcontracts any part of the Goods.
- n. "Service" means any object of procurement other than goods or works;
- o. "Party" means the Procuring Agency or the Bidder, as the case may be, and "Parties" means both of them;
- p. "Foreign Currency" means any currency other than the currency of the country of the Procuring Agency;

q. "Completion Date" means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

r. "In Writing" means communicated in written form with proof of receipt;

s. "Local Currency" means the currency of Pakistan;

2. Application and Interpretation

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

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

3. Applicable Law

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

4. Governing Language

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

5. Notices

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

6. Delivery/Location

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

7. Authorized Representatives / Authority of Member in charge

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

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

8. Effectiveness of Contract

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

9. Commencement of Services

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

10. Program

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

11. Starting Date/Expiration Date

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

11.2 Unless terminated earlier pursuant to Clause **GCC 15** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

12. Entire Agreement

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

13. Modification

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

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

14. Force Majeure

14.1 Definition

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

14.2 No Breach of Contract

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

14.3 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result

of Force Majeure.

14.4 Payments

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

15. Termination

15.1 By the Procuring Agency

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

- a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;
- b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;
- d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;
- e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

15.2 By the Bidder

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

- a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.
- b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.
- c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.
- d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

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

16.2 Law Applicable to Goods

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

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

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

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

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

17.3 Prohibition of Conflicting Activities

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

- a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;
- b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

18. Confidentiality

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

19. Insurance to be Taken Out by the Bidder

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

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

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

- (a) appointing such members of the Personnel not provided by the Bidder;
- (b) changing the Program of activities; and
- (c) any other action that may be specified in the SCC.

21. Reporting Obligations

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

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in SCC. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 15**.

22.2 Correction for Over-payment

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

22.3 Lack of performance penalty

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

23. Performance Guarantee

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

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

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

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

24. Fraud and Corruption

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

25. Sustainable Procurement

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

D. Bidder's Personnel

26. Description of Personnel

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

27. Removal and/or Replacement of Personnel

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

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

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

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

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

29. Change in the Applicable Law

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

30. Services and Facilities

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

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

F. Payments to the Bidder

31. Contract Price

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

32. Terms and Conditions of Payment

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

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

33. Currency of Payment

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

G. Quality Control

34. Identifying Defects

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

35. Correction of Defects, and

Lack of Performance Penalty

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

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

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

36. Taxes and Duties

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

H. Settlement of Disputes

37. Alternate Dispute Resolution

37.1 The disputes between the parties to the contract may be settled in accordance with Public Procurement Rules, 2004.

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

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



Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

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

Number of GC Clause

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

Number of GC Clause 1

Definitions

The Procuring Agency is: NAVTTC HQ, Kirthar Road, Sector H-9/4, Islamabad

The Supplier is:

The title of the subject procurement is: Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi

Number of GC Clause 3

Applicable/Governing Law:

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

Number of GC Clause 4

Language:

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

Number of GC Clause 5

Notices:

The addresses for the notices are:

Procuring Agency:

NAVTTC HQ, Kirthar Road, Sector H-9/4, Islamabad

+92-346-434-2443

dpc@navttc.gov.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

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

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

NAVTTTC HQ, Kirthar Road, Sector H-9/4, Islamabad

+92-346-434-2443

dpc@navttc.gov.pk

For the Bidder:

Name:

Designation:

Address:

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

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

Number of GC Clause 17

Conflict of Interest:

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

Number of GC Clause 22

Liquidated Damages

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

Authority.

Number of GC Clause 23

Performance Guarantee:

The amount of performance guarantee shall be **10.00%** of the contract price in acceptable form of **Pay Order**

Number of GC Clause 32

Payment terms:

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

Number of GC Clause 33

Currency of Payment:

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

Number of GC Clause 34

Identifying Defects:

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

Inspections & Tests Requirements

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

For Physical Fitness having No Damages (Certificate from supplier)

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

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

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

Delivery & Documents

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

Copies of the packing list identifying contents of each package;

Manufacturer's or Supplier's Valid Warranty Certificate;

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

Certificate of Origin.

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

Delivery Terms (DDP), on project execution site(s) with no transportation or financial liability on procuring agency

Number of GC Clause 37

Following is the guidance for Dispute Resolution

- i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.
- ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.
- iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration by sole arbitrator in accordance with Arbitration Act 1940. The arbitrator shall be appointed by mutual consent of the both parties. The Arbitration shall take place in Islamabad, Pakistan and proceedings will be conducted in English language.
- iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute.
- v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

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

Rules of procedure for arbitration proceedings:

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

Place of Arbitration and Award:

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



Bid Securing Declaration

Form 9: Bid Securing Declaration

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

Bid No.: **P66932**

To: **NAVTTTC (Procurement Cell), Resource Person Procurement Cell NAVTTTC HQ, Kirthar Road, Sector H-9/4, Islamabad**

We, the undersigned, declare that:

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

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

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;
2. Disagreement to arithmetical correction made to the Bid price; or
3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

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

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



Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the ____ day of _____ 20__ between **NAVTTC HQ, Kirthar Road, Sector H-9/4, Islamabad**

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

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Establishment of Eight (08) IT Labs with Provision and Installation of All Equipment on Turnkey Basis at Public Technical & Vocational Education and Training Institutes in Karachi (P66932)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

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

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency’s Letter of Acceptance; and

8. *[add here: any other documents]*

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

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

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

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

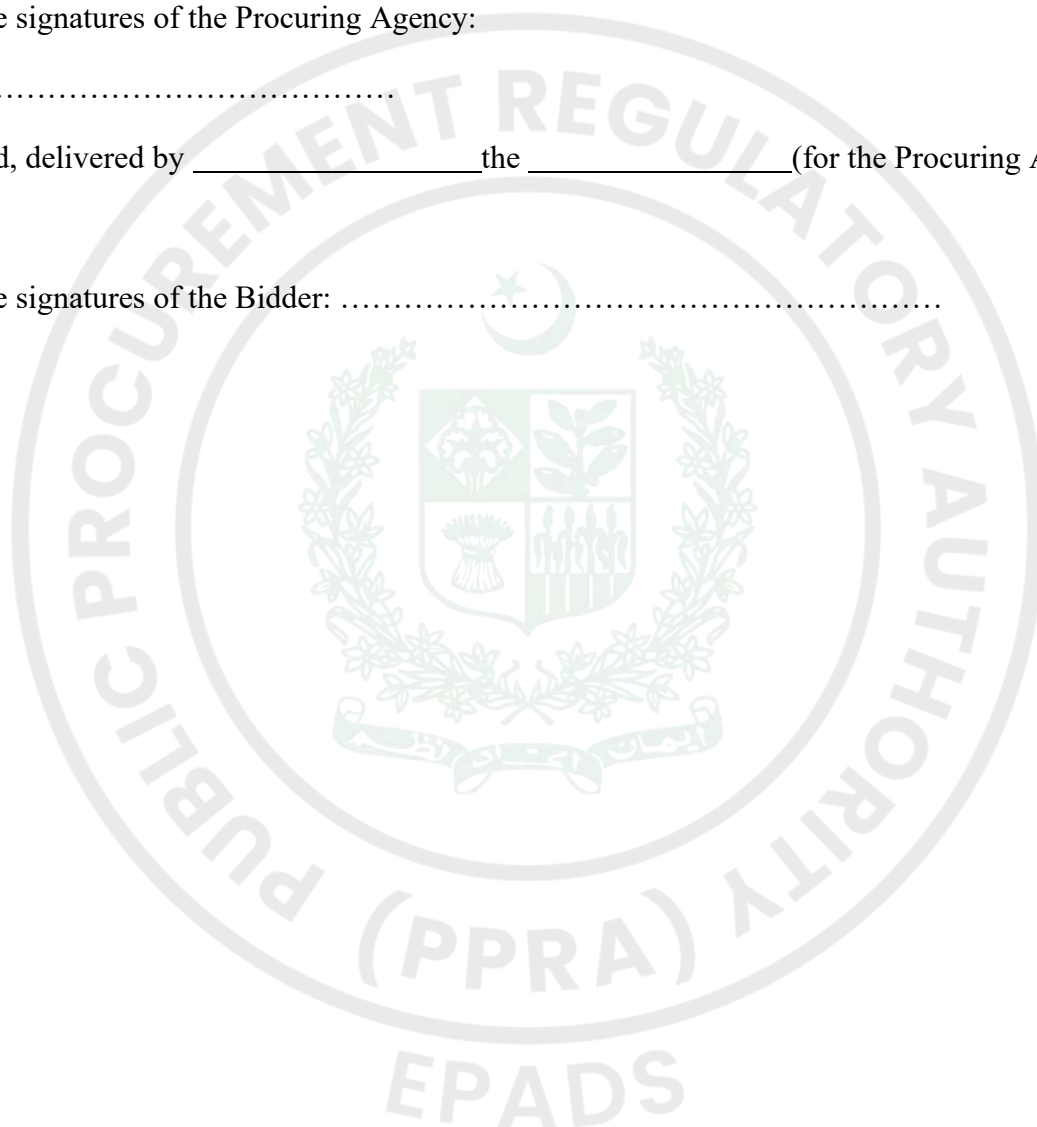
Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

.....

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

Witness to the signatures of the Bidder:





Integrity Pact

Integrity Pact

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

Contract

Number: Contract

Value: Contract Title:

Dated:

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

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

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

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

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



Performance Guarantee Form

Performance Guarantee Form

To: NAVTTC HQ, Kirthar Road, Sector H-9/4, Islamabad

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

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

AND WHEREAS we have agreed to give the Bidders guarantee:

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

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

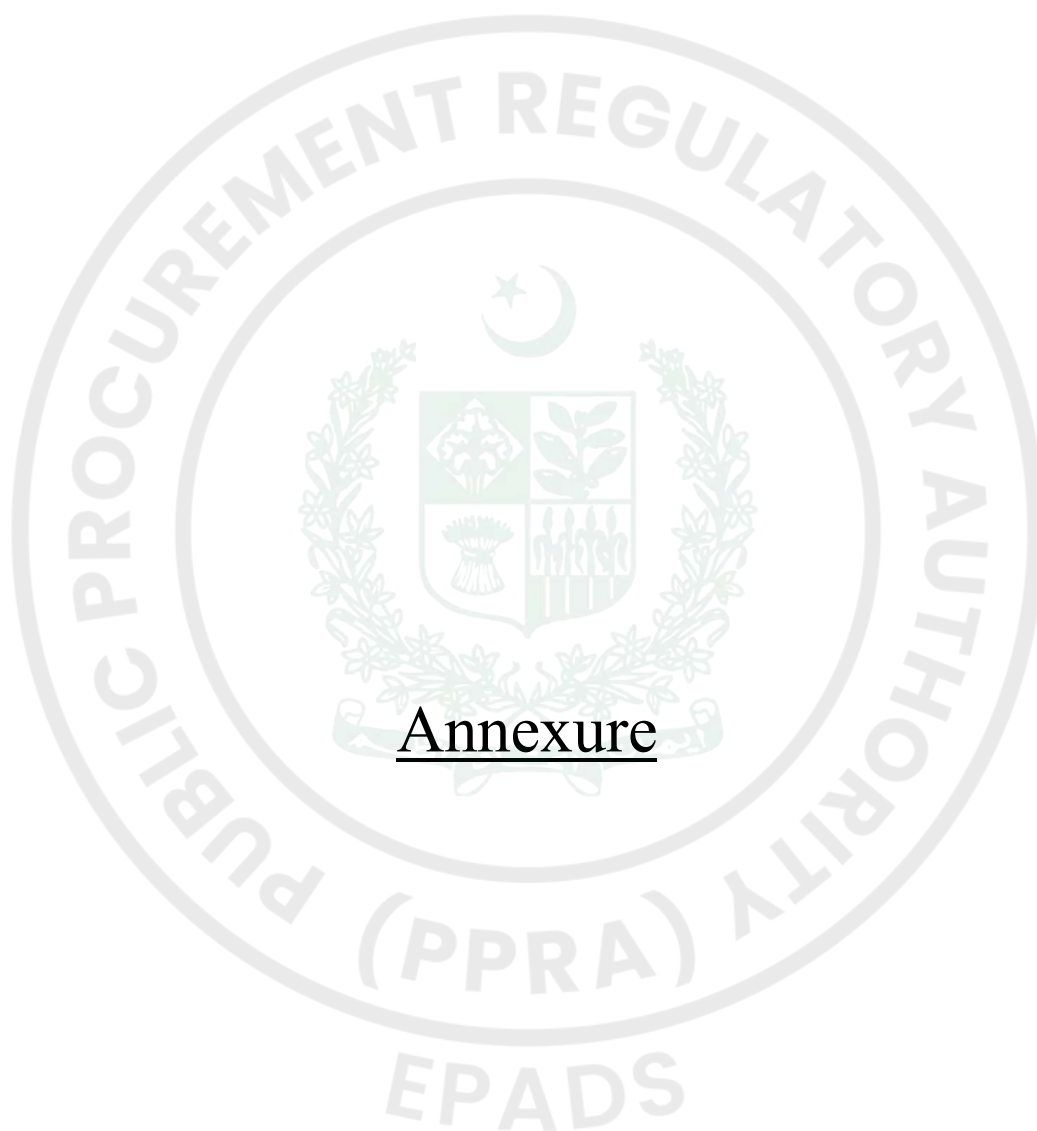
Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]





Annexure

Non-Blacklisting Undertaking

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Non-Blacklisting Undertaking** (page number: 87)

Bidder Information Form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bidder Information Form** (page number: 88)

Qualification Form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Qualification Form** (page number: 90)

Technical Information Form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Information Form** (page number: 92)

Scope of Supply and Specifications

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Scope of Supply and Specifications** (page number: 95)



Procurement Forms

Past Construction Experiences

See Form Under Additional Forms and Documents: **Past Construction Experiences** (page number: 96)

Contractor's Key Personnel Representative and Their Schedules

See Form Under Additional Forms and Documents: **Contractor's Key Personnel Representative and Their Schedules** (page number: 102)

Financial Resources

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 106)

Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 107)

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

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 108)

Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 110)

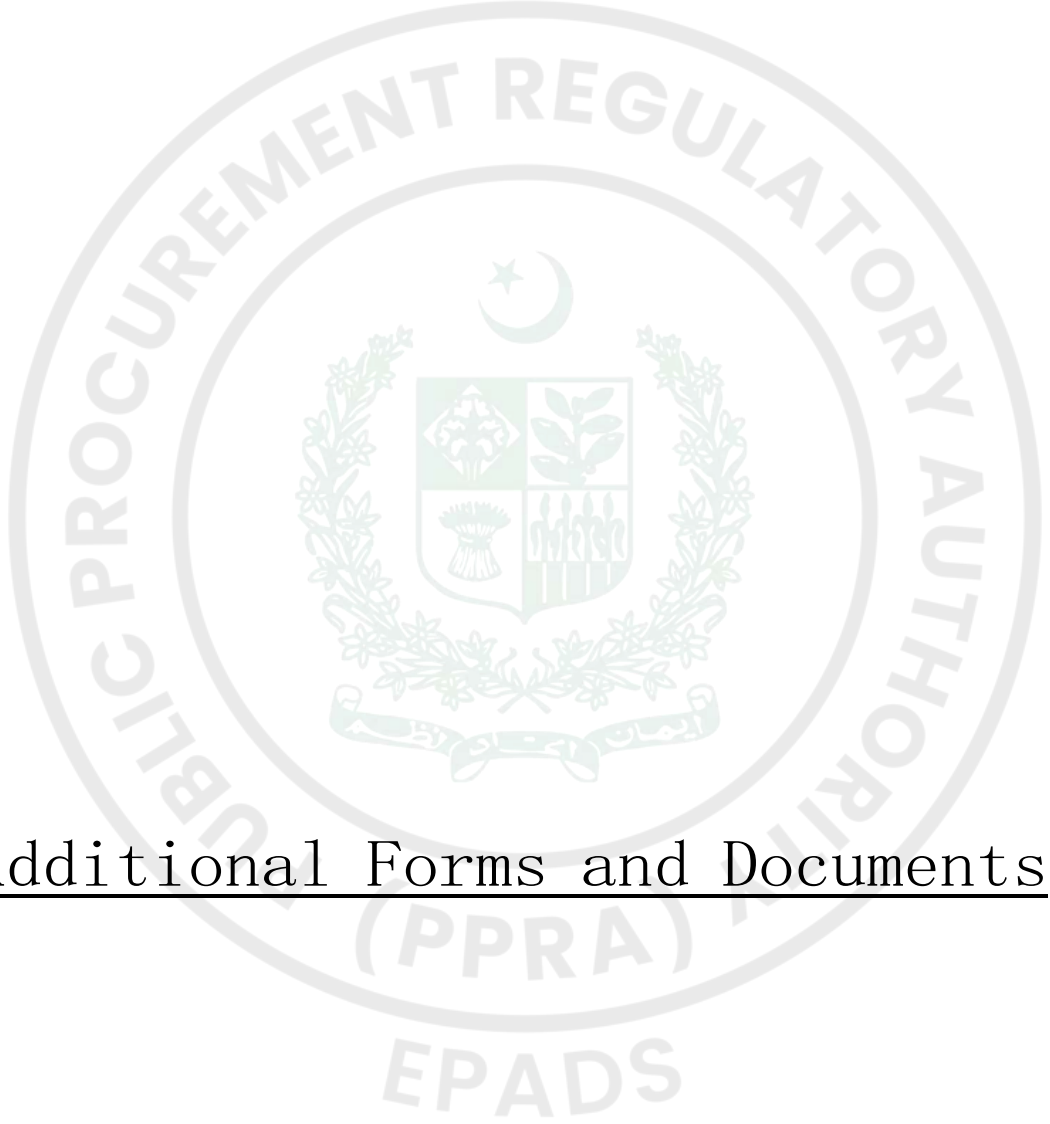
Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 111)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 113)





Additional Forms and Documents

NON-BLACKLISTING DECLARATION
(On Rs 200 Stamp Paper)

I/We hereby declare that all information provided in the proposal is true and correct. We further confirm that:

We have not been blacklisted by any Government / semi- government organization.

- We comply with all mandatory requirements of the RFP.
- All documents submitted are genuine and verifiable.
- I/We declare that the information provided in the proposal is accurate and can be proved whenever required. I/We further declare that if in case the information provided by me/us in this request for proposal proved to be incorrect at any point, NAVTTC reserves the right to take any action deemed feasible by the NAVTTC authorities against me/us.
- I/We further declare that our Business (***** Company Name here *****) is not blacklisted by any division, department or organization of Government of Pakistan.

Authorized Signatory: _____

Name: _____

Designation: _____

Stamp & Signature: _____

Form C: Bidder Information Form

(To be Submitted with Technical Proposal)

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]
Countries of operation	[Complete]
No. of full-time employees	[Complete]
No. of Technical Staff	
Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)	[Complete]
Contact person that NAVTTC 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.
2. Certificate of Registration of the business.
3. Principal's/Manufacturer's Authorization Letter in favor of Bidder to participate in this Tender.
4. A proofing document confirms the offered warranty for three (03) years for Desktop Computers and 1 year for other equipment, excluding the part of normal deterioration, supported by the manufacturer's certificates.
5. Proven records of delivery capacity of no less than required Projects of similar value and complexity.
6. Full detailed description of the specifications of the proposed items in addition to catalogues clearly showing the proposed specs responding to the technical requirements.
7. Supporting photos of the proposed items.
8. Latest Audited Financial Statements (Income Statement and Balance Sheet) including Auditor's Report for the past 3 years.
9. Other Required Documents mentioned in Detail of Technical Proposal.

Form D: Qualification Form

(To be submitted with Technical Proposal)

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	NAVTTT-(TENDER DOCUMENT Reference No.)		

Previous Relevant Experience

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

- Previous similar projects/ assignments.
- Similar activities performed in different cities across Pakistan.
- Support Services Contracts in hand with SLA for the supplied goods.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company. 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 NAVTTT.

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

☐ Non-performing contracts did not occur during the last 3 years			
☐ 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:	



Form E: Technical Information Form

(To be submitted with Technical Proposal)

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	NAVTTTC-(TENDER DOCUMENT Reference No.)		

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, value, beneficiary)
- 1.3 Manufacturer's strengths covering the regional/ global market presence, hi-tech products portfolio, manufacturing capacity, R&D activities resulting in national and international patents, quality control and assurance practices, and international certifications in relevant areas.

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)





Form F: Scope of Supply and Specifications
(To be Submitted with Technical Proposal)

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	NAVTTT-(TENDER DOCUMENT Reference No.)		

Scope of Supply and Technical Specifications

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.

CONSTRUCTION EXPERIENCE

Form EXP - 4.1

General Construction Experience

Bidder's Name: _____

Date: _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	

Form EXP - 4.2(a)
Specific Construction and Contract Management Experience

Bidder's Name: _____

Date: _____

_____ Bid Reference No. (if any) and title: _____
 _____ Page _____ of
 _____ pages

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐		Management Contractor ☐	Sub- contractor ☐
Total Contract Amount			PKR equivalent	
EMPLOYER's Name:				
Address:				
Telephone/fax number				
E-mail:				

Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	Information
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____

Date: _____

Sub-contractor's Name (if any): _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

All Sub-contractors for key activities must complete the information and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
EMPLOYER's Name:				

Address:	
Telephone/fax number	

	Information
E-mail:	

2. Activity No. Two

3.

	Information
Description of the key activities in accordance with Section III:	

Form EXP - 4.2 (c) Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder]

Bidder's Name: *[insert full name]*
Date: *[insert day, month, year]*
Bid Reference No. (if any) and title: *[insert ICB/NCB number and title]* Page *[insert page number]* of *[insert total number]* pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			PKR	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____
3. Key Requirement no 3 in accordance with 4.2 (c): _____
4. [PA define key requirements]

Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
3.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>

	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
5.	Title of position:	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
6.	Title of position: <i>[insert title]</i>	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

**Form PER-2:
Resume and Declaration
Contractor's Representative and Key Personnel**

Name of Bidder

Position [#1]: <i>[title of position from Form PER-1]</i>		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: <i>[language and levels of speaking, reading and writing skills]</i>	
details	Address of Employer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Employer:

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

Declaration

I, the undersigned [*insert either "Contractor's Representative" or "Key Personnel" as applicable*], certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Bid evaluation;
- (b) result in my disqualification from participating in the Bid;
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day/month/year): _____

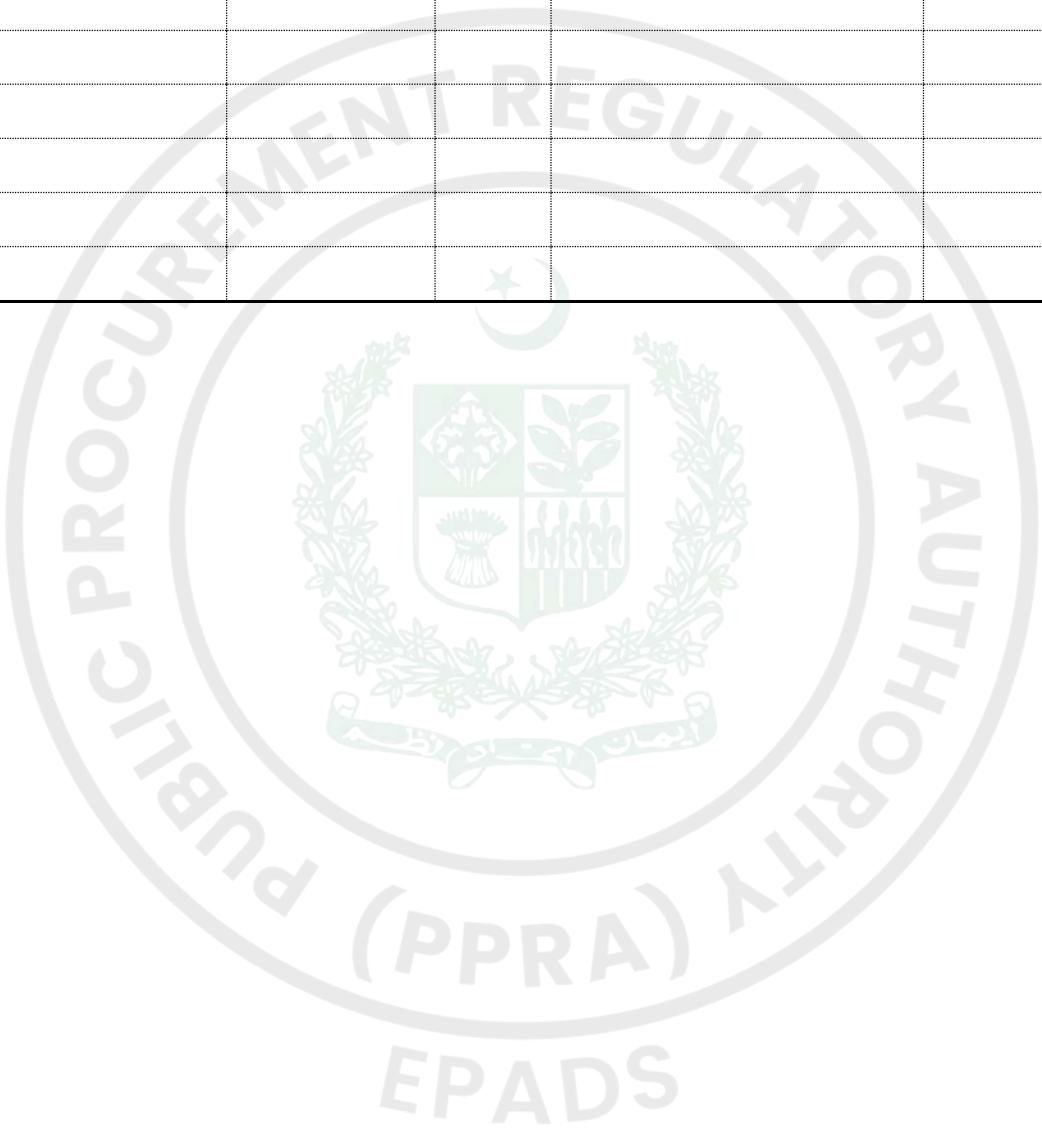
Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	Source of financing	Amount (Eq. PKR)
1		
2		
3		

Past Experience / Contracts

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



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

[The following table shall be filled in for the Applicant]

Applicant's Name: *[insert full name]*

Date: *[insert day, month, year]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

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

<i>[insert year]</i>	<i>[insert amount]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Status of dispute: <i>[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i>	<i>[insert amount]</i>
☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4. ☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), PKR Equivalent (exchange rate)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Court/ arbitral award decision: <i>[Indicate if the award decision was against the Applicant]</i>	<i>[insert amount]</i>

Current Contract Commitments / Works in Progress

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

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

Financial Situation and Performance

[The following table shall be filled in for the Applicant]

Applicant's Name: [insert full name]

Date: [insert day, month, year]

IFP No. and title: [insert IFP number and title]

Page [insert page number] of [insert total number] pages

1. Financial data

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

* Refer ITA 14 for the exchange rate

3. Financial documents

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

- (a) reflect the financial situation of the Applicant and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- ☐ Attached are copies of financial statements¹ for the *[number]* years required above; and complying with the requirements.

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

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Applicant]

Applicant's Name: *[insert full name]*

Date: *[insert day, month, year]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

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

* Refer ITA for date and source of exchange rate.

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