Standard Bidding Document

PROCUREMENT OF CITIZEN EXPERIENCE DESIGN LAB FOR PDA OFFICE
(Goods)

National

Single Stage-One Envelope

November 04, 2026

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REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Pakistan Digital Authority (Ministry of IT & Telecom)** has reserved Funds for the procurement planned for FY **2026-27**. The **Pakistan Digital Authority (Ministry of IT & Telecom)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the " **PROCUREMENT OF CITIZEN EXPERIENCE DESIGN LAB FOR PDA OFFICE** " with the reference of **"P158328"**

2. The **Pakistan Digital Authority (Ministry of IT & Telecom)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

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

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

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/158328** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Monday, November 16, 2026 03:00 PM**. E-bids will be opened using **EPADS v2.0** on the same day at **Monday, November 16, 2026 03:30 PM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet

registered on the new version of **EPADS v2.0,** may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc**

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

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Instructions to Bidders

A. Introduction

1.Scope of Bids

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

2. Source of Funds

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

3. Eligible Bidders

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

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

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

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

instructions issued by the Authority.

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

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

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

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

2. have controlling shareholders in common; or

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

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

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

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

3.4 A Bidder may be ineligible if –

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

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

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

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

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

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

4. Eligible Goods and Related Services

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

5. One Bid per Bidder

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

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

6. Cost of Bidding

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

B. Bidding Documents

7. Contents of Bidding Document

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

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

Section IX Integrity Pact

Section X Declaration of Beneficial Ownership Information.

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

8. Clarification of Bidding documents

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

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

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

but without identifying its source.

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

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

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

9. Amendment of Bidding documents

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

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

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

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

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

C. Preparation of Bids

10. Language of Bid

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

11. Documents and samples Constituting the Bid

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

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

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

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

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

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

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

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

provided conform to the technical specifications and standards.

13. Documents Establishing Eligibility and Qualification of the Bidder

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

14. Form of Bid

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

15. Bid Prices

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

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

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

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

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

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

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

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

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

16. Bids Currencies

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

17. Bids Validity Period

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

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

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

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

18. Bid Security or Bid Securing Declaration

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

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

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

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

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

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

b) a cashier’s or certified cheque; or

c) another security if indicated in the BDS.

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

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

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

a. the expiry of the Bid Security;

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

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

d. cancellation of procurement proceedings.

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

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

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

a. if a Bidder:

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

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

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

e. to sign the contract; or

f. to furnish Performance Guarantee**.**

19. Withdrawal, Substitution, and Modification of Bid

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

20. Format and Signing of Bid

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

D. Submission of Bids

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

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

22. Deadline for Submission of Bids

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

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

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

E. Opening and Evaluation of Bids

23. Opening of Bids

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

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

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

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

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

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

24. Clarification of Bids

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

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

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

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

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

25. Preliminary Examination of Bids

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

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

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

3. is accompanied by the required securities; and

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

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

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

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

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

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

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

26. Examination of Terms and Conditions; Technical Evaluation

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

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

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

27. Correction of Errors

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

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

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

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

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

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

28. Conversion to Single Currency

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

29. Evaluation of Bids

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

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

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

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

30. Domestic Preference

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

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

31. Determination of Successful Bid

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

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

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

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

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

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

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

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

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

32. Abnormally Low Financial Bids

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

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

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

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

1. Comparing the Bid price with the cost estimate;

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

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

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

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

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

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

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

F. Award of Contract

33. Criteria of Award

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

34. Negotiations

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

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

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

35. Procuring Agency's Right to reject all bids

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

36. Cancellation of Procurement

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

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

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

38. Notification of Award

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

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

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

39. Signing of Contract

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

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

40. Corrupt & Fraudulent Practices

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

F. Grievance Redressal & Complaint Review Mechanism

41. Constitution of Grievance Redressal Committee

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

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

G. Mechanism of Blacklisting

42. Mechanism of Blacklisting

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

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

43. Contract Management

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

44. Inspection of goods and evaluation of services.

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

45. Socio-economic development.

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

46. Environmental objectives

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

Bid Data Sheet

Bids Data Sheet (BDS)

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

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

A. Introduction

BDS Clause Number 1
ITB Number 1.1

Name of Procuring Agency: **Pakistan Digital Authority (Ministry of IT & Telecom)**

The subject of procurement is: **PROCUREMENT OF CITIZEN EXPERIENCE DESIGN LAB FOR PDA OFFICE**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Tuesday, December 15, 2026**

BDS Clause Number 2
ITB Number 2.1

Source of funds [Enter source of funds]

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

Name and identification number of the Contract: **P158328**

Identification Number:

BDS Clause Number 3
ITB Clause Number 3.1

Eligible Bidder [Enter eligibility of bidder]

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

B. Bidding Documents

BDS Clause Number 4

ITB Clause Number 4.1

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

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, November 13, 2026

ITB Number 8.2

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, November 13, 2026

ITB Number 8.3

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Friday, November 13, 2026

ITB Number 8.5

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

C. Preparation of Bids

BDS Clause Number 5
ITB Number 10.1

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

List of documents required along with the bid: No

BDS Clause Number 6
ITB Number 11.1

Documents required / not required with bid submission [enter list of documents] Samples required / not required with the bid [Enter the names and number of samples]

Items/Lots and their related documents:

See section items and Lots

BDS Clause Number 7
ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8
ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9
ITB Number 16.1

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

BDS Clause Number 10
ITB Number 17.1

The Bids/Bid Validity period shall be: **180 Days**

BDS Clause Number 11
ITB Number 18.1

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

Instrument of Bid Security shall be in the Name of : **Pakistan Digital Authority**

The Bid Security shall be in the form of: **Pay Order, Call at Deposit**

ITB Number 18.2

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

D. Submission of Bids

BDS Clause Number 12
ITB Number 20.1

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

4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan before bid submission deadline.

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

The deadline for Bids submission is: **Monday, November 16, 2026 03:00 PM**

Day *:* ***Monday***

Date: ***Monday, November 16, 2026***

Time *:* ***03:30 PM***

E. Opening and Evaluation of Bids

BDS Clause Number 13
ITB Number 23.1

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

Day *:* ***Monday***

Date: ***Monday, November 16, 2026***

Time *:* ***03:30 PM***

ITB Number 29.2

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

ITB Number 30.1

BDS Clause Number 14
ITB Number 31.1

Domestic Preference [applicable / not applicable]

ITB Number 31.2

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

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

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

F. Review of Procurement Decisions

BDS Clause Number 15
ITB Number 41.1

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

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

ITB Number 42.2

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

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

Eligibility Criteria

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

Required Registration
None

Eligibility Criteria	Document
Legal status: Registration with SECP (company), Registrar of Firms (partnership) or proof of sole proprietorship, with valid NTN.	Yes
Tax status: Active on the FBR Active Taxpayers List (ATL) for Income Tax and Sales Tax at the time of bid opening. Bidders not active on the ATL at the time of bid opening shall be rejected.	Yes
Business experience: Minimum 5 years of experience in supply, installation and commissioning of ICT equipment, supported by registration certificate and at least two purchase orders/contracts in the last 2 years.	Yes
Financial capacity: Average annual sales volume or gross turnover of at least Rs. 90 million in the last 3 years. Attach copies of audited financial statements and income tax returns filed with FBR.	Yes
Bank statement: Available bank balance of Rs. 20 million or above. Submit bank statement(s) as evidence, showing the required balance at any one instant in the last three months before the date of publication of the tender notice.	Yes
Bank turnover certificate: Debit and credit turnover certificate issued by the bank, clearly stating the debit and credit turnover for the last 3 financial years.	Yes

Manufacturer's authorisation: Manufacturer's Authorisation Form (MAF) from the OEM or its authorised distributor in Pakistan for the equipment of Lot 2 and Lot 3 (where bid). The letter should be addressed to the Head of Procurement, PDA.	Yes
Not blacklisted: Affidavit on valid e-stamp paper that, at the time of bid opening, the bidder is not blacklisted by any government department or procuring agency, not cross-debarred by PPRA, and not debarred by any international financial institution or multilateral development bank.	Yes
Warranty: Comprehensive warranty of not less than 3 years on all lots, as per the Terms of Reference. Evidence: bidder's undertaking.	Yes
Installation and commissioning: Complete installation, integration, testing, commissioning and user acceptance testing at PDA premises, as per the Terms of Reference. Evidence: bidder's undertaking.	Yes
Training and documentation: Operator training and complete documentation package (manuals, configuration records, inventory with serial numbers, SOPs), as per the Terms of Reference. Evidence: bidder's undertaking.	Yes
Software and licences: All software, licences and subscriptions required for operation to be supplied, with firmware and software updates throughout the warranty period. Evidence: list of software and licences with validity.	Yes
Cables and accessories: All cables, connectors, mounts and accessories needed for full operation to be included in the bid price. Evidence: bidder's undertaking.	Yes
The bidder shall provide an AGPR Vendor Number or submit an undertaking on a valid e-Stamp paper declaring that, upon award of the contract, it shall be the sole responsibility of the bidder to register and obtain the AGPR Vendor Number from the relevant authorities.	Yes
The bidder shall submit an undertaking on a valid e-Stamp paper (as per the provided in Annex A, B, and C) confirming that the bidder has read and understood all parts of this tender document and commits to exercising due diligence in providing all applicable goods, installation, and warranty services.	Yes

Evaluation Criteria

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

Least Cost Based Selection (LCBS)

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Items/Lots

Items Without Lots :

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Warranty
Usability Lab Room	System usability services	**Address:** 3rd & 4th Floor, PIDC Complex, F-5/1, Islamabad **Schedule:** 27 Days **Quantity:** 36/Qty	36/Qty	65000 PKR	3 Years
Video Wall Collaborative Room	System usability services	**Address:** 3rd & 4th Floor, PIDC Complex, F-5/1, Islamabad **Schedule:** 27 Days **Quantity:** 1/Qty	1/Qty	125000 PKR	3 Years
Interactive Screens and Video Conferencing	System usability services	**Address:** 3rd & 4th Floor, PIDC Complex, F-5/1, Islamabad **Schedule:** 27 Days **Quantity:** 3/Qty	3/Qty	215000 PKR	3 Years
Training Recording Studio and Lab	System usability services	**Address:** 3rd & 4th Floor, PIDC Complex, F-5/1, Islamabad **Schedule:** 27 Days **Quantity:** 18/Qty	18/Qty	105000 PKR	3 Years

Related Services of Goods:

Yes

Item	UNSPSC	Related Services
Usability Lab Room	System usability services	Installation and commissioning
Video Wall Collaborative Room	System usability services	Installation and commissioning
Interactive Screens and Video Conferencing	System usability services	Installation and commissioning
Training Recording Studio and Lab	System usability services	Installation and commissioning

Items/Lot Specification

Items Without Lots :

Item: Usability Lab Room

UNSPSC: System usability services

Specifications / Requirementsss:

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
Sr.no	Equipment Name	Quantity	Specifications
1	Wireless Microphone	1	General Latency: 1.9 ms Total Harmonic Distortion (THD): ≤ -60 dB (1 kHz @ -3 dBfs input level) Frequency Specifications Frequency Range: 470.200 – 550.000 MHz Audio Frequency Response: 20 Hz – 20 kHz (-3 dB) Acoustic Properties Dynamic Range: > 134 dB Ambient Conditions Operating Temperature: -10°C to +55°C Operating Humidity: 5% – 95% (non-condensing) Battery & Power Battery Type: Rechargeable lithium-ion (BA 70) Battery Capacity: 1.72 Ah Battery Voltage: 3.8 V Battery Count: 2 (included) Input Voltage: 11 – 13 V DC or PoE (IEEE 802.3af Class 0) Physical Specifications Dimensions: 212 × 44 × 189 mm Weight: 1000 g Bluetooth Bluetooth Frequency Range: 2402 – 2480 MHz

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
2	Wired Microphones	1	1. Acoustic and Electrical Specifications Polar Pattern: Primarily Omnidirectional (360-degree pickup), which is ideal for consistent sound even if the talent moves their head. Cardioid (directional) is used for noisy environments to reject rear sound. Frequency Response: Typically A slight boost in the 6-10kHz range is common for added clarity (presence). Sensitivity: Standard range is -45dB to -30dB (1V/Pa). A -38dB to -42dB rating is typical for professional speech, ensuring a full signal, while -30dB is extremely high and may cause clipping. Signal-to-Noise Ratio (SNR): Professional models offer 70dB, while reputable standard models are often around 67dB. Maximum SPL (Sound Pressure Level): 110dB to 136dB+. High SPL (130dB+) is crucial for theater or loud environments, while 110dB is standard for interviews. Equivalent Noise Level: 25dBA-27dBA is standard (lower is better, meaning less "hiss").

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
3	Adaptive Keyboards	1	Programmable keyboard designed for users with physical, motor, cognitive, or dexterity impairments and for accessibility testing. Keys: Large, clearly separated, high-contrast programmable keys with customizable labels. Programmability: Each key shall be independently programmable to perform single keystrokes, key combinations, shortcuts, text strings, mouse functions, or application-specific commands. Customization: Support interchangeable keycaps, key guards/overlays, or equivalent customization features to accommodate different user needs. Layout: Fully customizable keyboard layout with the ability to create and save multiple user profiles. Key Size: Large keys suitable for users with limited motor control or reduced dexterity. Activation Force: Low-force or adjustable key activation suitable for users with limited hand strength. Visual Accessibility: High-contrast labels and support for clear, easy-to-read characters and symbols. Feedback: Provide tactile and/or audible feedback for key activation, where supported. Compatibility: Compatible with Windows 10/11 and preferably macOS and Linux without requiring proprietary operating system modifications. Connectivity: USB wired connectivity; wireless connectivity may be provided as an additional feature. Software: Shall include software for programming keys, creating custom layouts, assigning macros/shortcuts, and saving multiple user profiles. Memory: Preferably include onboard memory to retain programmed layouts and settings. Mounting: Shall support stable desktop use and preferably provide mounting options for accessibility workstations. Build Quality: Durable construction suitable for frequent use in a professional usability and accessibility testing laboratory. Accessories: Shall include required programming software, cables, interchangeable keycaps/labels or overlays, and all accessories necessary for complete operation. Purpose: Suitable for testing digital products and services with users who have limited mobility, reduced dexterity, motor impairments, or other accessibility requirements. Warranty: Minimum one-year manufacturer/OEM warranty.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
4	High-Speed Storage Card	2	200MB/s Read Speed Lightning-fast file transfers and editing 90MB/s Write Speed Reliable 4K UHD video recording V30 & U3 Rating Certified for high-bitrate video capture A2 App Performance Faster app loading on smartphones 256GB Capacity Store hours of HD video or thousands of photos Waterproof & Shockproof Survives drops, water, and extreme weather Works with Drones & Action Cams Enhanced workflow efficiency Lifetime Warranty Long-term reliability and peace of mind

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Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
5	Mobile Mounting Solution	2	Mobile mounting solution designed for secure installation of smartphones and tablets in usability testing, accessibility evaluation, field research, and recording environments Adjustable mounting system supporting smartphones and tablets ranging from 4.7 inches to 13 inches Universal clamping mechanism with secure, non-slip grip and protective padding to prevent device damage Supports both portrait and landscape device orientation Multi-axis adjustment with 360° rotation, 180° tilt, and swivel functionality for flexible positioning Adjustable arm with extendable reach and lockable positioning mechanism Heavy-duty aluminum alloy or equivalent durable construction Stable mounting base suitable for desk, tabletop, tripod, wall, or articulated arm installation (depending on configuration) Standard 1/4"-20 mounting thread or equivalent for compatibility with cameras, tripods, and professional mounting accessories Quick-release mechanism for easy installation and removal of mobile devices Integrated cable management system for power and data cables Supports devices with protective cases without compromising stability High load capacity suitable for professional smartphones and tablets Anti-slip base or clamp with vibration-resistant design for stable operation during recording and testing Corrosion-resistant and scratch-resistant finish for long-term durability Tool-free adjustment and installation for rapid setup and repositioning Compatible with external lighting, microphones, cameras, and mobile usability testing accessories Compact and portable design suitable for laboratory, office, and field research environments Suitable for mobile usability testing, accessibility evaluations, eye-tracking studies, video recording, live demonstrations, and user research

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
6	Professional Soundbar Speaker System	1	Soundbar speaker system designed for conference rooms, usability laboratories, training facilities, podcast studios, and immersive multimedia environments High-fidelity audio output with balanced frequency response for speech and multimedia playback Minimum total power output of 100 Watts RMS Multi-driver speaker configuration with dedicated woofers and tweeters for enhanced audio clarity Frequency response range of 50 Hz – 20 kHz or better Digital Signal Processing (DSP) for automatic sound optimization and speech enhancement Built-in amplifier with low distortion and high signal-to-noise ratio Supports stereo and virtual surround sound technologies Automatic volume leveling and dynamic range optimization Integrated Bluetooth 5.0 or higher for wireless audio streaming HDMI eARC/ARC, Optical (TOSLINK), USB, and 3.5 mm audio input interfaces Supports HDMI-CEC for integrated device control Ethernet and/or Wi-Fi connectivity for network-based audio management (where applicable) Compatible with Windows, macOS, Android, iOS, smart displays, and professional multimedia systems Supports connection with displays, projectors, video conferencing systems, and media players Integrated remote control and on-device control panel Wall-mountable and tabletop installation options Low-latency audio processing suitable for synchronized video playback Supports continuous operation in professional environments Durable metal or high-quality composite enclosure for long-term reliability Energy-efficient operation with automatic standby mode Suitable for speech reinforcement, presentations, multimedia playback, usability testing, accessibility demonstrations, training sessions, focus groups, and collaborative workspaces

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
7	Mobile Interaction Sled	1	Purpose: Mobile usability testing and first-person interaction recording system Device Compatibility: Supports smartphones and tablets of various sizes Mounting System: Adjustable mobile device holder with secure grip mechanism Camera Integration: Adjustable camera mount/arm for attaching external HD/4K cameras Recording Perspective: First-person Point-of-View (POV) capture of user interactions Orientation Support: Supports both portrait and landscape device positioning Adjustability: Multi-axis adjustment for device angle, camera position, and viewing alignment Construction: Lightweight, durable aluminum or equivalent frame Portability: Compact and suitable for field studies and usability laboratories Compatibility: Works with external cameras, microphones, and usability testing software Primary Applications: Mobile app usability testing, gesture analysis, accessibility testing, and user behavior research Setup: Quick device mounting and easy configuration for repeated testing sessions.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
8	4K Professional Webcam	1	Video Resolution: Ultra HD 4K (3840 × 2160 pixels) video capture Frame Rate: Supports 30 FPS at 4K resolution; 60 FPS at 1080p resolution Image Sensor: High-quality CMOS sensor for professional video capture Lens: Wide-angle glass lens with minimum 90° field of view Autofocus: Advanced autofocus with automatic face tracking capability Low-Light Performance: Automatic light correction and HDR support for clear images in varying lighting conditions Microphone: Built-in dual stereo noise-canceling microphones Connectivity: USB 3.0 / USB-C plug-and-play connectivity Compatibility: Supports Windows, macOS, and major video conferencing/recording platforms Mounting Options: Adjustable universal clip with tripod mount support Privacy Feature: Integrated privacy shutter or lens cover Video Compression: H.264/H.265 encoding support for efficient streaming and recording Software Support: Compatible with webcam control and video recording applications Use Cases: Usability testing, remote interviews, focus groups, live streaming, video conferencing, and UX research sessions.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
9	AI PTZ Camera System	1	Pan-Tilt-Zoom (PTZ) camera system with AI-powered video tracking capabilities AI Auto Tracking: Automatic detection, recognition, and tracking of speakers, presenters, and participants Video Resolution: Supports 4K Ultra HD (3840 × 2160) video capture Frame Rate: Supports up to 60 FPS for smooth video recording and streaming Image Sensor: High-quality CMOS sensor for professional video output Optical Zoom: Minimum 12x–20x optical zoom capability for capturing distant subjects Digital Zoom: Additional digital zoom support for extended coverage Pan/Tilt Movement: Motorized pan and tilt control with smooth and precise positioning Pan Range: Minimum ±170° horizontal rotation coverage Tilt Range: Minimum -30° to +90° vertical movement AI Features: Face detection and recognition Human subject tracking Auto framing and composition adjustment Speaker tracking for meetings and research sessions Field of View: Wide-angle coverage suitable for meeting rooms, usability labs, and focus group environments Autofocus: Fast and accurate autofocus with automatic exposure and white balance adjustment Low-Light Performance: Advanced image processing for clear video under varying lighting conditions Connectivity: USB 3.0, HDMI, Ethernet/IP streaming, and wireless control options Streaming Protocols: Supports RTSP, RTMP, and IP video streaming protocols Audio Integration: Supports external microphone and professional audio system integration Control Interface: Remote control, web-based interface, and software-based camera management Mounting Options: Ceiling, wall, tripod, or desktop mounting support Video Compression: H.264/H.265 encoding support for efficient recording and streaming Compatibility: Works with video conferencing platforms, recording systems, and usability testing setups Recording Applications: Suitable for usability labs, focus groups, interviews, training sessions, and behavioral research Power Supply: PoE (Power over Ethernet) or dedicated power adapter support Use Cases: UX research sessions, citizen experience labs, accessibility testing, remote observation, and professional video documentation.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
10	Bone Conduction Headphones	1	Open-ear bone conduction technology for audio transmission through cheekbones while keeping ears unobstructed Lightweight, ergonomic, and comfortable wraparound design for extended use Bluetooth 5.0 or higher for wireless connectivity with smartphones, tablets, and computers Compatible with Windows, Android, iOS, and macOS devices High-quality stereo audio with clear voice and balanced sound reproduction Built-in noise-reducing microphone for voice calls and virtual meetings Rechargeable lithium-ion battery with a minimum of 8 hours continuous playback/talk time Fast charging via USB-C or magnetic charging interface Water and dust resistance with a minimum IP55 rating Stable wireless range of at least 10 meters (33 feet) Integrated controls for volume, playback, call management, and voice assistant activation Low-latency audio suitable for communication, training, and multimedia applications Supports hands-free calling and multipoint Bluetooth pairing (where available) Comfortable fit compatible with eyeglasses, hearing protection, and other head-mounted equipment Durable construction suitable for daily professional use Suitable for accessibility testing, assistive technology applications, usability research, training, and communication in environments where situational awareness is required.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
11	Adjustable Height Desks	1	Electrically adjustable sit-stand desk with smooth height adjustment mechanism Height adjustment range of 650 mm to 1,300 mm (minimum) Dual-motor lifting system for fast, stable, and quiet operation Minimum lifting capacity of 100 kg uniformly distributed load Adjustable desktop size suitable for dual-monitor and workstation setups (minimum 1,400 × 700 mm) Sturdy steel frame with anti-collision safety mechanism Digital control panel with programmable memory presets (minimum 3–4 height settings) Smooth height adjustment speed of at least 30 mm/second Low operating noise level (≤50 dB) during height adjustment Cable management tray or integrated cable routing system for organized workspace Scratch-resistant, durable laminate or high-pressure laminate (HPL) tabletop with rounded edges Adjustable leveling feet for stability on uneven surfaces Supports multiple monitor arms, docking stations, and peripheral equipment Energy-efficient operation with standby power-saving mode Compliance with ergonomic workstation standards and safety requirements Suitable for usability laboratories, accessibility testing environments, research workstations, and office applications.
12	Over the ear headphones	3	Professional over-ear wired headphones with 40 mm dynamic drivers, 5 Hz–35 kHz frequency response, 32 Ω impedance, ≥110 dB/V sensitivity, closed-back circumaural design, approximately 20 dBA passive noise attenuation, memory-foam comfort cushions, adjustable padded headband, detachable locking 2.4 m cable with left/right connection capability, 3.5 mm connector, 6.35 mm adapter and protective storage pouch.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
13	Quick-Mount Gooseneck Microphone	1	Desktop cardioid condenser gooseneck microphone with approximately 18-inch dual-section flexible gooseneck, 50 Hz–16 kHz or wider frequency response, ≥80 dB signal-to-noise ratio, -35 ±2 dB sensitivity or better, balanced 3-pin XLR output, 48 V phantom power, integrated mute/push-to-talk controls, multi-mode operation, LED status indicator, stable desktop base and detachable foam windscreen.
14	Channel Direct Streaming AV Mixer	1	Professional all-in-one Direct Streaming AV Mixer with minimum 6 HDMI video inputs, support for Full HD 1080p60 video, real-time scaling and frame-rate conversion, multi-layer video composition, picture-in-picture/keying, integrated minimum 28-channel digital audio mixer, professional microphone inputs with 48 V phantom power, advanced audio processing, built-in LAN streaming encoder, simultaneous streaming to at least two destinations, USB-C UVC/UAC streaming, direct SDXC recording, multiple HDMI outputs, integrated multi-view monitoring, PTZ camera control, scene memories and programmable automation/macros. 6.35 mm, or 3.5 mm audio output connects to the mixer's MIC/LINE input

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Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
15	27-inch 4K Monitor	1	27-inch 4K monitor designed for video production, graphic design, usability testing, accessibility evaluation, multimedia editing, and professional office applications Minimum 27-inch IPS, OLED, or equivalent display panel Native 4K Ultra HD (3840 × 2160 pixels) resolution Minimum 60 Hz refresh rate (120 Hz or higher preferred) Wide viewing angles of 178° horizontal / 178° vertical High color accuracy with 100% sRGB coverage and minimum 95% DCI-P3 or equivalent Factory color calibrated with support for hardware or software calibration High Dynamic Range (HDR10) support or equivalent Brightness of minimum 350 nits (400 nits or higher preferred) Static contrast ratio of 1,000:1 or higher, Response time of 5 ms (GtG) or lower, Anti-glare, low-reflection display surface Flicker-free backlighting and low blue light technology for extended viewing comfort Supports Picture-in-Picture (PiP) and Picture-by-Picture (PbP) viewing modes Integrated On-Screen Display (OSD) controls with customizable display profiles Connectivity ports including: Minimum 1 × HDMI 2.0 or higher Minimum 1 × DisplayPort 1.4 or higher Minimum 1 × USB Type-C with DisplayPort Alt Mode and Power Delivery (preferred) USB 3.0/3.2 hub with multiple downstream ports (preferred) Supports HDCP for protected content playback Compatible with Windows, macOS, Linux, and professional workstation environments Ergonomic stand with: Height adjustment,Tilt adjustment,Swivel adjustment,Pivot (portrait/landscape) functionality VESA mount compatibility (100 × 100 mm) for wall or monitor arm installation Thin bezel design suitable for multi-monitor configurations Energy-efficient operation compliant with international energy standards Durable commercial-grade construction suitable for continuous operation Integrated cable management system Built-in speakers (preferred)

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
16	High-Speed Memory Cards	3	High-speed memory cards designed for cinema cameras, professional photography, video production, usability research recording, and high-resolution multimedia workflows Compatible with professional cameras, cinema cameras, camcorders, and high-performance recording devices Available in professional formats including: CFexpress Type B CFexpress Type A SDXC UHS-II SDXC V90 (or equivalent) Minimum storage capacity of 256 GB per card (512 GB or higher preferred) High sustained write speed suitable for professional video recording: Minimum 90 MB/s sustained write speed for SD V90 cards Minimum 400 MB/s sustained write speed for CFexpress cards Maximum read speed of: Minimum 250 MB/s for SD cards Minimum 800 MB/s for CFexpress cards (preferred) Supports professional video recording formats including: 4K UHD video recording 6K/8K RAW video recording (where supported) High-frame-rate video capture Professional cinema codecs Supports UHS Speed Class U3 / Video Speed Class V90 or equivalent certification Supports reliable continuous recording without frame drops or buffering interruptions High durability design resistant to: Water Dust Shock X-ray exposure Extreme temperatures Magnetic fields Operating temperature range suitable for professional environments (approximately -25°C to 85°C) Error correction and data integrity protection features for reliable media storage High endurance rating suitable for repeated recording and data transfer cycles Compatible with professional card readers and high-speed data transfer systems Supports rapid file transfer for large video files and research datasets Includes data recovery support or recovery software (preferred) Labeling area for asset identification and inventory management Suitable for multi-camera production workflows and laboratory environments

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
17	External SSD (2 TB)	1	high-speed memory cards designed for cinema cameras, professional photography, video production, usability research recording, and high-resolution multimedia workflows Compatible with professional cameras, cinema cameras, camcorders, and high-performance recording devices Available in professional formats including: CFexpress Type B, CFexpress Type A SDXC UHS-II, SDXC V90 (or equivalent) Minimum storage capacity of 256 GB per card (512 GB or higher preferred) High sustained write speed suitable for professional video recording: Minimum 90 MB/s sustained write speed for SD V90 cards Minimum 400 MB/s sustained write speed for CFexpress cards Maximum read speed of: Minimum 250 MB/s for SD cards Minimum 800 MB/s for CFexpress cards (preferred) Supports professional video recording formats including: 4K UHD video recording 6K/8K RAW video recording (where supported) High-frame-rate video capture Professional cinema codecs Supports UHS Speed Class U3 / Video Speed Class V90 or equivalent certification Supports reliable continuous recording without frame drops or buffering interruptions High durability design resistant to: Water,Dust,Shock,X-ray exposure,Extreme temperatures,Magnetic fields Operating temperature range suitable for professional environments (approximately -25°C to 85°C) Error correction and data integrity protection features for reliable media storage High endurance rating suitable for repeated recording and data transfer cycles Compatible with professional card readers and high-speed data transfer systems Supports rapid file transfer for large video files and research datasets Includes data recovery support or recovery software (preferred) Labeling area for asset identification and inventory management Suitable for multi-camera production workflows and laboratory environments

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
18	HDMI Cables	2	HDMI cables designed for high-resolution video transmission in usability labs, studios, conference rooms, multimedia environments, and professional AV setups Supports HDMI 2.1 standard (HDMI 2.0 minimum acceptable) for high-bandwidth professional applications Supports video resolutions including: 8K UHD (7680 × 4320) at 60 Hz (preferred) 4K UHD (3840 × 2160) at 120 Hz Full HD resolutions Supports high dynamic range formats including: HDR10 HDR10+ Dolby Vision (where supported) Supports high bandwidth transmission up to 48 Gbps (for HDMI 2.1 certified cables) Supports advanced video features including: Variable Refresh Rate (VRR) Auto Low Latency Mode (ALLM) Dynamic HDR Enhanced Audio Return Channel (eARC) Supports multi-channel digital audio transmission including: Dolby Atmos DTS:X High-resolution PCM audio Compatible with: Professional monitors 4K/8K displays Video switchers Cameras VR/XR systems Recording equipment Projectors Gaming and simulation systems Gold-plated corrosion-resistant connectors for reliable signal transmission Oxygen-free copper (OFC) conductors for improved conductivity and signal stability Triple or multi-layer shielding to minimize electromagnetic interference (EMI) and radio frequency interference (RFI) Durable outer jacket resistant to bending, abrasion, and repeated use High-flexibility construction suitable for studio and laboratory cable management Supports long-distance transmission: Minimum 3 meters Preferred 5–10 meters depending on installation requirements Supports Ethernet over HDMI (HEC) where applicable Plug-and-play operation with no drivers or additional software required Certified compliance with HDMI standards and bandwidth requirements Suitable for continuous professional operation in AV and research environments

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
19	USB-C Cables	1	USB Type-C cables designed for high-speed data transfer, device connectivity, charging, and integration of professional research, multimedia, and laboratory equipment Supports USB Type-C reversible connector design for easy and reliable connection Supports USB 3.2 Gen 2 / USB 3.2 Gen 2x2 standard or higher High-speed data transfer capability: Minimum 10 Gbps Preferred 20 Gbps or higher Supports USB4 standard (preferred) with data transfer speeds up to 40 Gbps Supports Power Delivery (USB PD) for fast charging up to 100W (20V/5A) or higher Supports charging and power delivery for professional devices including: Laptops Tablets Smartphones Cameras VR/XR devices External storage devices Professional monitors Supports DisplayPort Alternate Mode (DP Alt Mode) for external display connectivity Supports video output including: 4K UHD displays 8K displays (where supported by device capability) High-quality oxygen-free copper (OFC) conductors for reliable signal transmission Multi-layer shielding to reduce electromagnetic interference (EMI) and radio frequency interference (RFI) Durable braided nylon or reinforced outer jacket for long-term professional use Reinforced strain relief at connector joints to prevent cable damage Gold-plated connectors for improved conductivity and corrosion resistance Supports high-frequency data transmission with minimal signal loss Compatible with: Professional tablets Android smartphones Laptops and workstations Cameras and recording equipment VR/AR headsets Audio interfaces External SSDs Display systems Supports extended operating cycles in laboratory and studio environments Available in multiple lengths: Minimum 1 meter Preferred 2–3 meters for workstation and studio setups Plug-and-play operation without requiring additional drivers Certified compliance with USB-IF standards (preferred)

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
20	Head-Controlled Cursor System	1	Infrared (IR) / Active Optical, RGB or equivalent webcams, ML facial-landmark tracking models, Uses 6-axis or 9-axis MEMS sensors (accelerometer, gyroscope, magnetometer),
21	Mouth-Operated Assistive Controller	1	Mouth joystick / sip-and-puff sensors, USB / Bluetooth HID connectivity, 30–60 Hz response rate, breath pressure / tongue actuation.

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Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
22	Eye Tracking Analytics Software	1	Purpose: Professional eye tracking data analysis software for UX research, usability testing, and human behavior studies Compatibility: Supports leading eye trackers, screen-based eye trackers, wearable eye trackers, and VR eye tracking solutions Data Analysis: Advanced analysis of gaze data, fixation points, saccades, gaze paths, and user attention patterns Visualization Tools: Heatmaps, gaze plots, opacity maps, cluster analysis, and attention maps Metrics Supported: Time to First Fixation (TTFF), Fixation Duration, Visit Count, Dwell Time, Areas of Interest (AOI), and Task Completion Analysis Areas of Interest (AOI): Customizable AOI creation and comparison for detailed user behavior analysis Video Analysis: Synchronization of eye tracking data with recorded user sessions, screen recordings, and external camera footage Stimulus Support: Analysis of websites, mobile applications, software interfaces, images, videos, prototypes, and physical environments Experiment Management: Supports creation, configuration, and management of usability testing studies Data Export: Export capability for statistical analysis in CSV, Excel, and research analysis formats Reporting: Generates professional research reports with visual analytics and performance insights Collaboration Features: Supports project sharing, annotations, and research team workflows Integration: Compatible with usability testing platforms and research tools for combined qualitative and quantitative analysis Hardware Integration: Optimized for famous eye trackers, including screen-based, wearable, and VR eye tracking systems Operating System Support: Compatible with professional research environments running Windows-based systems Primary Applications: UX/UI testing, accessibility research, digital service evaluation, cognitive research, marketing studies, and human-computer interaction analysis.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
23	Wearable Eye Tracking System/Glasses	1	Professional-grade eye tracking system for UX research, usability testing, and human behavior analysis Infrared-based eye tracking technology for accurate gaze measurement Real-time tracking of eye movements, fixation points, saccades, and gaze patterns High-precision gaze tracking with calibration support for individual users Supports screen-based, wearable, and real-world environment eye tracking studies Integrated scene camera for capturing user field-of-view during interactions High-resolution video recording synchronized with eye movement data Minimum 50 Hz gaze sampling rate for detailed attention analysis Supports heatmaps, gaze plots, fixation maps, and Areas of Interest (AOI) analysis Compatible with web, mobile, software interface, and physical environment testing Advanced analytics for measuring attention, engagement, and user behavior patterns Supports real-time and post-session data analysis Compatible with professional eye-tracking analysis software platforms Data export capability for statistical analysis and research reporting Supports integration with usability testing tools and external recording equipment Suitable for accessibility testing, citizen experience research, product evaluation, and human-computer interaction studies Ergonomic and portable design for laboratory and field-based research environments.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
24	Desktop Eye Tracker	1	Professional-grade screen-based eye tracking system for UX research, usability testing, and human-computer interaction studies Non-invasive infrared eye tracking technology for accurate gaze measurement Supports desktop, laptop, and monitor-based user testing environments High-precision tracking of eye movements, fixation points, saccades, and gaze patterns Sampling rate suitable for professional usability research (60 Hz–300 Hz or higher depending on configuration) High gaze accuracy with automatic and user-assisted calibration support Supports multiple screen sizes and display resolutions Real-time tracking of user attention and visual engagement Advanced analytics including heatmaps, gaze plots, fixation duration, dwell time, and Areas of Interest (AOI) analysis Supports testing of websites, mobile applications, software interfaces, prototypes, and digital services Synchronization with screen recordings, user audio, and interaction events Compatible with professional eye-tracking analysis software for data visualization and reporting Supports quantitative usability metrics including time-to-first-fixation, task completion analysis, and user behavior patterns Data export capability for statistical analysis and research documentation Plug-and-play USB connectivity with compatible workstations Adjustable mounting system for flexible placement with monitors and displays Suitable for accessibility evaluation, digital service testing, UX benchmarking, and cognitive research Designed for laboratory-based usability testing environments and controlled research studies.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
25	High-End AI Laptop Workstation	1	A18 or equivalent HX 18” 240Hz QHD+ Gaming Laptop: Processor Ryzen or equivalent 9-9955HX, Graphic card RTX 5080 or equivalent, 32GB DDR5, 1TB NVMe or equivalent SSD, Type C, Wi-Fi 7, Win 11 Home or equivalent: Cosmo Gray A9WIG-065US
26	Professional Tower Workstation	1	TWR (1000W) 30E00047AX AMD or Equivalent Ryzen or Equivalent Thread Ripper or Equivalent PRO 3945WX 16GB RAM 512GB SSD Win 10 Pro or Equivalent
27	My Cloud Expert Series EX2 Ultra - 32TB	1	Capacity: 32TB (2 × 16TB drives) Processor: Marvell ARMADA 385 or equivalent , 1.3GHz dual-core Memory: 1GB DDR3 RAM or equivalent Drive Bays: 2 × 3.5-inch SATA or equivalent bays (hot-swappable) RAID Support: RAID 0 (performance), RAID 1 (data protection, default), JBOD, Spanning or equivalent Networking: 1 × Gigabit Ethernet port or equivalent Expansion: 2 × USB 3.0 ports (rear) Dimensions: 165 × 108 × 147 mm (approx. 6.5 × 4.25 × 5.8 inches) Compatibility: Windows 10 / 8 / 7 macOS Mojave, High Sierra, Sierra, El Capitan, Yosemite, Mavericks, Mountain Lion or equivalent Key Features & Functionalities Data Protection: Acronis True Image for Western Digital backup software support or equivalent Media Streaming: DLNA/UPnP certified for streaming to smart TVs, gaming consoles, and media devices or equivalent Security: 256-bit AES volume encryption for secure data storage File Access Protocols: SMB, AFP, NFS, FTP/SFTP, WebDAV, iSCSI or equivalent Usage: Centralized storage, automatic backups, and remote file access via My Cloud mobile and desktop apps or equivalent

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
28	Professional Tablet Device	1	Display: 11-inch OLED, 2420 × 1668 resolution (264 ppi), ProMotion 10–120Hz, 1,000 nits max full-screen / 1,600 nits peak HDR brightness, P3 wide color, True Tone, fingerprint-resistant oleophobic & anti-reflective standard glass coating Processor: 9-core CPU (3 performance + 6 efficiency cores), 10-core GPU with hardware-accelerated ray tracing, 16-core Neural Engine (38 TOPS), 120 GB/s memory bandwidth Memory & Storage: 8 GB RAM + 256 GB NVMe internal storage Design & Dimensions: 249.7 mm × 177.5 mm × 5.3 mm; Weight: 444 g (0.98 lbs); Aluminum unibody construction Rear Camera: 12 MP Wide camera ($f/1.8$), 4K ProRes video recording up to 30 FPS, Adaptive True Tone flash, LiDAR Scanner Front Camera: Landscape 12 MP Ultra Wide camera ($f/2.4$) with Center Stage, TrueDepth Face ID sensor Connectivity & Expansion: Wi-Fi 6E (802.11ax) 2x2 MIMO, Bluetooth 5.3; Thunderbolt / USB 4 port (up to 40 Gbps, DisplayPort) Audio & Mics: 4-speaker audio system, four studio-quality microphones Battery: 31.29 Wh rechargeable lithium-polymer battery (up to 10 hours web browsing/video on Wi-Fi) Accessories Support: Compatible with Pencil and Magic Keyboard

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
29	Rugged Enterprise Tablet	1	Professional-grade rugged enterprise tablet designed for field operations, inspections, usability testing, accessibility evaluations, and government applications Minimum 10-inch Full HD (1920 × 1200 pixels) or higher sunlight-readable touchscreen display Capacitive multi-touch display supporting operation with fingers, gloves, and stylus Minimum display brightness of 800–1,000 nits for outdoor visibility Scratch-resistant reinforced glass with anti-reflective and anti-fingerprint coating High-performance Octa-core processor or equivalent enterprise-grade chipset Minimum 8 GB RAM , Minimum 256 GB SSD or internal flash storage, expandable via microSD or equivalent Enterprise-grade operating system with long-term security updates and device management support Integrated AI processing capability (where applicable) Wireless connectivity including Wi-Fi 6/6E, Bluetooth 5.2 or higher Optional 4G LTE/5G cellular connectivity, Integrated GPS/GNSS supporting GPS, GLONASS, Galileo, and BeiDou positioning systems USB Type-C with high-speed data transfer and charging support Additional I/O interfaces such as USB-A, docking connector, and POGO pins (where applicable) Front-facing camera with minimum 8 MP resolution, Rear camera with minimum 13 MP resolution and LED flash Supports Full HD or 4K video recording, Integrated stereo speakers and dual noise-canceling microphones Built-in barcode scanner and NFC reader (where applicable), Supports active digital stylus for handwriting and annotation Minimum 10-hour continuous battery operation under standard usage User-replaceable or hot-swappable battery system (preferred) Fast charging capability, IP65 or higher rating for dust and water resistance Compliant with MIL-STD-810H or equivalent military durability standard, Resistant to vibration, shock, humidity, temperature variations, and accidental drops from a minimum height of 1.2 meters, Weight not exceeding 1.5 kg Supports Mobile Device Management (MDM) and enterprise security policies, Biometric authentication including fingerprint reader, facial recognition, or smart card support (where applicable), Hardware-based encryption and secure

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
30	Premium iOS Smartphone	1	Display: 6.3-inch LTPO OLED, 1–120Hz dynamic refresh rate, 3,000 nits peak outdoor brightness Processor: Flagship 3nm 6-core CPU, 6-core GPU, 16-core NPU Memory & Storage: 12 GB RAM; 256 GB, 512 GB, or 1 TB storage options Rear Cameras: 48 MP Main + 48 MP Ultra-Wide + 48 MP Telephoto (4K @ 120 FPS video) Front Camera: 18 MP Center Stage camera with 3D facial recognition sensor Build & Durability: Grade 5 Titanium frame, specialized ceramic glass, IP68 water/dust resistance (150 mm × 71.9 mm × 8.75 mm; 204 g) Connectivity & Port: USB-C (USB 3 up to 10 Gbps), Wi-Fi 7, Bluetooth 6.0, 5G, Satellite Emergency SOS Power & Charging: Lithium-ion battery with 25W magnetic wireless and fast USB-C wired charging

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Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
31	Premium Android Smartphone	1	Professional-grade premium Android smartphone designed for mobile application testing, usability research, accessibility evaluation, field data collection, and multimedia applications Latest stable Android operating system with a minimum of 5 years of security updates and OS upgrade support High-performance Octa-core flagship processor or equivalent with integrated AI processing capabilities Minimum 12 GB RAM Minimum 256 GB internal UFS storage Minimum 6.7-inch AMOLED/OLED display Display resolution of QHD+ (3200 × 1440 pixels) or higher Adaptive refresh rate of 120 Hz or higher Display brightness of minimum 2,000 nits (peak) for excellent outdoor visibility HDR10+ or equivalent HDR display support Corning Gorilla Glass Victus or equivalent scratch- and impact-resistant protection Capacitive multi-touch display supporting 10-point or higher simultaneous touch input AI-powered multi-camera system including: Minimum 50 MP primary camera with Optical Image Stabilization (OIS) Ultra-wide camera, Telephoto camera with optical zoom , Front-facing camera with minimum 12 MP resolution Supports 8K and 4K UHD video recording with image stabilization, AI-assisted photography and computational imaging features, Stereo speakers with Dolby Atmos or equivalent immersive audio technology, Triple or quad noise-canceling microphones for high-quality voice recording, Supports 5G, Wi-Fi 7 (or Wi-Fi 6E minimum), Bluetooth 5.3 or higher, NFC, and USB Type-C, Supports GPS, GLONASS, Galileo, BeiDou, and other global navigation systems, Integrated biometric security including ultrasonic fingerprint sensor and facial recognition, Minimum 5,000 mAh battery capacity Fast wired charging (minimum 45 W) and wireless charging support, Reverse wireless charging capability (preferred) IP68-rated dust and water resistance, Supports USB Type-C video output and desktop mode (where applicable) Enterprise security features including hardware-backed encryption, secure boot, and mobile device management (MDM) compatibility, Compatible with mobile usability testing tools, accessibility testing software, eye-tracking accessories, and UX research

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
32	Mid-Range Android Smartphone	2	Professional-grade mid-range Android smartphone designed for mobile application testing, usability research, accessibility evaluation, field data collection, and digital service validation Latest stable Android operating system with a minimum of 4 years of security updates and OS upgrade support High-performance Octa-core processor or equivalent Minimum 8 GB RAM Minimum 128 GB internal UFS storage, expandable via microSD (where applicable) Minimum 6.5-inch AMOLED/OLED or IPS LCD display Display resolution of Full HD+ (2400 × 1080 pixels) or higher Adaptive refresh rate of 90 Hz or higher Minimum display brightness of 1,000 nits (peak) Capacitive multi-touch display supporting 10-point or higher simultaneous touch input Scratch-resistant display protection (Corning Gorilla Glass or equivalent) Rear camera system comprising: Minimum 50 MP primary camera with autofocus Ultra-wide camera (preferred), Macro or depth sensor (where applicable), Front-facing camera with minimum 13 MP resolution, Supports 4K UHD and Full HD video recording with electronic image stabilization (EIS) Stereo speakers with high-quality audio output, Integrated noise-canceling microphones for voice recording and video conferencing, Supports 5G, Wi-Fi 6 (minimum Wi-Fi 5 acceptable), Bluetooth 5.2 or higher, NFC (where applicable), and USB Type-C connectivity, Supports GPS, GLONASS, Galileo, BeiDou, and other global navigation systems Integrated fingerprint sensor (side-mounted or in-display) and facial recognition Minimum 5,000 mAh battery capacity, Fast charging capability of minimum 25 W, USB Type-C interface supporting charging and high-speed data transfer, IP54 or higher splash and dust resistance (preferred), Compatible with enterprise Mobile Device Management (MDM) solutions, Supports mobile usability testing tools, accessibility testing applications, and UX research platforms, Compatible with Bluetooth peripherals, external storage devices, and USB accessories Durable construction suitable for laboratory, office, and field use Weight not exceeding 220 g

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
33	Entry-Level Android Smartphone	2	entry-level Android smartphone designed for mobile application testing, accessibility evaluation, digital service validation, field research, and basic usability studies Latest stable Android operating system with a minimum of 3 years of security updates Octa-core processor or equivalent entry-level chipset Minimum 4 GB RAM, Minimum 64 GB internal storage, expandable via microSD card (where applicable) Minimum 6.5-inch HD+ or Full HD+ IPS LCD display, Display resolution of 1600 × 720 pixels (HD+) or higher Minimum 90 Hz refresh rate (preferred), Capacitive multi-touch display supporting 10-point touch input Minimum display brightness of 500 nits, Scratch-resistant display protection Rear camera with minimum 50 MP primary sensor and autofocus Front-facing camera with minimum 8 MP resolution Supports Full HD (1080p) video recording at 30 fps or higher Integrated mono or stereo speaker system Built-in microphone with noise reduction for voice recording and video calls Supports 4G LTE (5G preferred where available) Dual-band Wi-Fi (2.4 GHz & 5 GHz) support Bluetooth 5.0 or higher USB Type-C charging and data interface GPS/GNSS support including GPS, GLONASS, Galileo, and BeiDou Dual SIM support (preferred) Fingerprint sensor and facial recognition for device security Minimum 5,000 mAh battery capacity Fast charging support of 18 W or higher 3.5 mm audio jack (preferred) Compatible with enterprise Mobile Device Management (MDM) solutions Supports mobile usability testing, accessibility testing, digital service evaluation, and field data collection applications Durable construction suitable for daily laboratory and field use

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
34	Smart Watch – iOS Compatible	1	Network: GSM / HSPA / LTE Body: Dimensions: 160.1 × 76.8 × 8.4 mm Weight: 200 g Build: Glass front, plastic back, plastic frame SIM: Nano-SIM / Nano-SIM + Nano-SIM Display: Type: Super AMOLED, 90Hz, 800 nits (HBM) Size: 6.5 inches Resolution: 1080 × 2340 pixels (~396 ppi) Aspect ratio: 19.5:9 Platform: OS: Android 14 (up to 4 major upgrades), One UI 7 Memory: Card slot: microSDXC (shared SIM slot) Internal: 128GB 4GB RAM, 128GB 6GB RAM, 128GB 8GB RAM, 256GB 6GB RAM, 256GB 8GB RAM Main Camera: Triple: 50 MP (wide) + 5 MP (ultrawide) + 2 MP (macro) Features: LED flash, panorama, HDR Video: 1080p@30fps Selfie Camera: 13 MP (wide) Video: 1080p@30fps Sound: Loudspeaker: Yes 3.5mm jack: Yes Comms: Wi-Fi: 802.11 a/b/g/n/ac, dual-band Bluetooth: 5.3 GPS: GPS, GALILEO, GLONASS, BDS, QZSS NFC: Yes (region dependent) Radio: FM radio (region dependent) USB: USB Type-C 2.0 Features: Sensors: Fingerprint (side-mounted), accelerometer, compass Virtual proximity sensing Battery: 5000 mAh Charging: 25W wired

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Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
35	Smart Watch – Android Compatible	1	Compatibility: Android OS 8.0 or above (Bluetooth-enabled smartphones) Display: 1.3–1.5 inch AMOLED/LCD touchscreen, minimum 360 × 360 pixels resolution Processor: Dual-core or higher wearable chipset Memory: Minimum 1 GB RAM, 4 GB internal storage Connectivity: Bluetooth 5.0 or above, Wi-Fi support, optional GPS Sensors: Accelerometer, gyroscope, heart rate sensor, SpO_2 (blood oxygen) sensor, sleep monitoring sensor Health Monitoring: Heart rate tracking, blood oxygen monitoring, step counting, calorie tracking, sleep analysis, activity tracking Notifications: Calls, SMS, emails, and app notifications synchronization with Android devices Battery: Minimum 300 mAh battery with 3–7 days typical usage Charging: Magnetic or wireless charging support Water Resistance: Minimum IP68 water and dust resistance rating Controls: Touchscreen interface with physical side button/crown Mobile App Support: Companion Android application for configuration, data synchronization, and firmware updates Build: Durable aluminum/stainless-steel frame with replaceable strap options Additional Features: Voice assistant support, music control, camera shutter control, customizable watch faces, OTA firmware updates.

Lot 1	__EMPTY	__EMPTY_1	__EMPTY_2
36	Hand Tracking / Gesture Interaction System	1	Professional-grade hand tracking and gesture recognition system for VR/XR, usability testing, and human-computer interaction research Real-time tracking of hand position, orientation, movement, and finger articulation Supports controller-free natural hand interaction for immersive applications Advanced computer vision and/or infrared-based tracking technology for accurate hand detection Supports full hand and finger tracking with individual finger joint recognition Minimum tracking capability of 21 key hand landmarks/joints per hand Supports two-handed interaction and simultaneous hand tracking Low-latency tracking response for smooth and natural user interaction Supports predefined and custom gesture recognition for application control Enables pinch, grab, point, swipe, rotate, and custom gesture interactions High tracking accuracy across different hand sizes, movements, and orientations Supports integration with VR/MR/XR platforms and immersive applications Compatible with Unity, Unreal Engine, and major XR development environments SDK/API support for custom gesture development and research applications Supports real-time data capture of hand movements and interaction events Provides gesture analytics and interaction data for usability and behavioral research Compatible with VR headsets, mixed reality devices, and research-grade simulation environments Supports integration with eye tracking, motion tracking, and biometric research systems Plug-and-play connectivity through USB-C, Bluetooth, or equivalent interface Compact and portable design suitable for laboratory and field-based research

Item: Video Wall Collaborative Room

UNSPSC: System usability services

Specifications / Requirementsss:

Lot 2	__EMPTY	__EMPTY_1	__EMPTY_2
Sr.no	Equipment Name	Quantity	Specifications

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Lot 2	__EMPTY	__EMPTY_1	__EMPTY_2
1	Indoor LED Video Wall – Collaboration Room/Training room	1	Display Type: Fine-pitch indoor direct-view LED video wall , Pixel Pitch: ≤1.5 mm, LED Type: SMD, high-efficiency indoor LED modules, The required dimensions shall be 5.9 feet in height and 10.5 feet in width., 16:9 aspect ratio Display Resolution: Minimum Full HD; scalable to 4K UHD through controller Brightness: ≥600 nits, adjustable for indoor environments Refresh Rate: ≥3,840 Hz Contrast Ratio: ≥5,000:1 Viewing Angle: ≥160° horizontal and vertical Color Depth: ≥16-bit processing Color Temperature: Adjustable, approximately 3,000–10,000 K Cabinet: Modular, lightweight die-cast construction with front-serviceable LED modules Seam/Gaps: Near-seamless installation, suitable for continuous large-format content Video Processing: Integrated video processor/scaler supporting multiple input sources and multi-window layouts Inputs: HDMI 2.0/2.1, DisplayPort, USB and LAN; support for wireless presentation where required Output: Support for 4K input and multi-source display Connectivity: Ethernet/LAN with remote monitoring and configuration Control: Dedicated video wall controller with remote control and configuration software Compatibility: Compatible with laptops, video conferencing systems, cameras and room collaboration systems Operating Life: ≥100,000 hours Power: Energy-efficient design with automatic brightness adjustment and standby mode Installation: Complete mounting structure, cabling, power distribution and professional installation Maintenance: Front-access serviceability and replaceable LED modules/power supplies Safety: CE/FCC or equivalent international safety and EMC compliance Accessories: Video processor/controller, mounting frame, sending/receiving cards, power supplies, signal cables, power cables, connectors and all required accessories , Warranty: Minimum 3 years comprehensive warranty Support: Installation, commissioning, configuration, user training, remote technical support and firmware/software updates

Item: Interactive Screens and Video Conferencing

UNSPSC: System usability services

Specifications / Requirementsss:

Lot 3	__EMPTY	__EMPTY_1	__EMPTY_2
Sr.no	Equipment Name	Quantity	Specifications

Lot 3	__EMPTY	__EMPTY_1	__EMPTY_2
1	75-Inch Interactive Flat Panel Display with Stand	6	Display Size: Minimum 75 inches interactive flat panel display. Resolution: 4K UHD resolution of 3840 × 2160 pixels. Backlight Technology: DLED backlight technology or equivalent. Brightness: Minimum 350 nits. Aspect Ratio: 16:9. Color Gamut: Minimum 90% NTSC or equivalent. Color Accuracy: Delta E ≤ 1.5. Display Protection: Anti-glare etched AG glass with 9H toughened protection. Touch Technology: Infrared (IR) touch technology. Touch Points: Minimum 50 simultaneous touch points. Touch Response Time: ≤ 2.5 ms. Interactive Features: Support for Windows Ink, palm rejection, direct annotation, and handwriting recognition. Built-in OPS PC: Integrated OPS PC with Windows 11 Pro. Processor: Minimum Intel Core i5 12th Generation or equivalent processor. Memory: Minimum 16 GB RAM. Storage: Minimum 256 GB SSD. Graphics: Integrated UHD graphics supporting 4K resolution at 60 Hz. Connectivity: Shall include HDMI IN, USB 2.0/3.0, USB Type-C, RS232, RJ45, and Audio IN/OUT. Wireless Connectivity: Built-in Wi-Fi 6 and Bluetooth 5.2 or higher. AI Camera System: Integrated AI camera system with triple 50 MP cameras or equivalent. Camera Features: Minimum 5× hybrid zoom, auto framing, speaker tracking, intelligent focus, and privacy shutter. Microphone System: Built-in 16-microphone array with a pickup range of up to 15 meters. Audio System: Integrated 2.1-channel speaker system with a minimum output of 2 × 10W + 20W. AI Audio Features: Support for Active Noise Cancellation (ANC), Acoustic Echo Cancellation (AEC), Automatic Gain Control (AGC), and Audio Fence technology. Stand: Supplied with a compatible, robust floor stand/mobile stand suitable for securely supporting the 75-inch interactive display. Condition and Warranty: Equipment shall be brand new, complete with all required accessories, cables, software, and mounting hardware, and covered by a minimum one-year manufacturer/OEM warranty.

Lot 3	__EMPTY	__EMPTY_1	__EMPTY_2
2	98-Inch Interactive Flat Panel Display with Stand	2	Display Size: Minimum 98 inches interactive flat panel display. Resolution: 4K UHD resolution of 3840 × 2160 pixels. Backlight Technology: DLED backlight technology or equivalent. Brightness: Minimum 400 nits. Aspect Ratio: 16:9. Color Gamut: Minimum 90% NTSC or equivalent. Color Accuracy: Delta E ≤ 1.5. Display Protection: Anti-glare etched AG glass with 9H toughened protection. Touch Technology: Infrared (IR) touch technology or equivalent advanced touch technology. Touch Points: Minimum 50 simultaneous touch points. Touch Response Time: ≤ 2.5 ms. Interactive Features: Support for Windows Ink, palm rejection, direct annotation, handwriting recognition, and multi-user collaboration. Built-in OPS PC: Integrated OPS PC with Windows 11 Pro. Processor: Minimum Intel Core i5 12th Generation or equivalent processor. Memory: Minimum 16 GB RAM. Storage: Minimum 256 GB SSD. Graphics: Integrated UHD graphics supporting 4K resolution at 60 Hz. Connectivity: Shall include HDMI IN, USB 2.0/3.0, USB Type-C, RS232, RJ45, and Audio IN/OUT. USB Type-C: Shall preferably support display, touch, data transfer, and power delivery through a single cable. Wireless Connectivity: Built-in Wi-Fi 6 and Bluetooth 5.2 or higher. AI Camera System: Integrated AI camera system with triple 50 MP cameras or equivalent, suitable for video conferencing and hybrid collaboration. Camera Features: Minimum 5× hybrid zoom, auto framing, speaker tracking, intelligent focus, and physical or electronic privacy shutter., Microphone System: Built-in 16-microphone array with a pickup range of up to 15 meters. Audio System: Integrated 2.1-channel speaker system with a minimum output of 2 × 10W + 20W or higher. AI Audio Features: Support for Active Noise Cancellation (ANC), Acoustic Echo Cancellation (AEC), Automatic Gain Control (AGC), noise reduction, and Audio Fence technology or equivalent. Operating System: Built-in smart interactive display operating system supporting annotation, whiteboarding, screen sharing, file access, and collaborative applications. Screen Sharing: Support for wireless screen sharing from commonly used Windows, macOS, Android, and iOS devices, without requiring additional hardware. Stand: Supplied

Lot 3	__EMPTY	__EMPTY_1	__EMPTY_2
3	Integrated Interactive Meeting and Collaboration System for 20+ Persons	1	Complete integrated interactive display, video conferencing, camera, microphone, and audio system suitable for a room accommodating 20+ persons. Minimum 86-inch 4K UHD (3840 × 2160) interactive display with anti-glare toughened glass and minimum 40-point multi-touch capability. Integrated AI-powered multi-camera system with wide-angle and telephoto cameras, supporting auto framing, speaker tracking, multi-speaker tracking, privacy shutter, and minimum 5× hybrid zoom. Built-in 16-microphone array or higher, with beamforming and wide-area voice pickup. Minimum three external expansion speakerphone/microphone units, each with an 8-microphone array or higher, 360° voice pickup, and full-duplex communication. External microphone units shall support daisy-chaining or equivalent scalable connectivity and be distributed across the meeting table for complete room coverage. Advanced audio features including AI noise cancellation, Acoustic Echo Cancellation (AEC), Automatic Gain Control (AGC), beamforming, and voice enhancement. Integrated 2.1-channel speaker system with minimum 2 × 10W + 20W output or equivalent. Support for major video conferencing platforms and wireless screen sharing from Windows, macOS, Android, and iOS devices. Support BYOD/BYOM, allowing connected laptops to use the room's integrated camera, microphones, and speakers. Built-in or compatible compute module with minimum Core i5 12th Generation or equivalent, 16 GB RAM, 256 GB SSD, and Windows 11 Pro. Connectivity including HDMI, USB Type-A, USB Type-C, RJ45, Audio IN/OUT, and RS232. Built-in Wi-Fi 6 or higher and Bluetooth 5.2 or higher. Complete supply including all microphones, speakerphones, cables, mounting hardware, accessories, installation, configuration, and on-site audio/video testing. Equipment shall be brand new, with a minimum 3-year manufacturer/OEM warranty.

Item: Training Recording Studio and Lab

UNSPSC: System usability services

Specifications / Requirementsss:

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
Sr.no	Equipment Name	Quantity	Specifications

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
1	Professional Adjustable Studio Lighting System	1	LED studio lighting system suitable for usability testing, video recording, photography, podcasting, and research laboratories High-output LED lighting with adjustable brightness from 0–100% (dimmable) Adjustable color temperature ranging from 2700K to 6500K High color accuracy with CRI ≥95 and TLCI ≥95 for true-to-life color reproduction Flicker-free operation suitable for high-frame-rate video recording and professional photography Minimum output of 2,000–5,000 lux at 1 meter (depending on fixture type) Soft, uniform light distribution with minimal shadows and glare Supports adjustable beam angle or interchangeable light modifiers (where applicable) Includes diffusers, softboxes, or equivalent light-shaping accessories Height-adjustable heavy-duty light stands with a minimum working height of 0.8 m to 2.5 m Adjustable tilt and rotation mechanisms for precise light positioning Silent, fanless, or low-noise cooling system suitable for audio recording environments AC power operation with support for optional battery operation (where applicable) Integrated digital control panel for brightness and color temperature adjustment Wireless control via remote control and/or mobile application (where applicable) Durable aluminum or equivalent professional-grade housing for long-term use Low power consumption with energy-efficient LED technology Supports continuous operation during extended recording and research sessions Suitable for use with green screens, chroma key production, interviews, focus groups, usability testing, and video documentation, Compliant with applicable electrical safety and electromagnetic compatibility standards

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
2	3-Axis Camera Gimbal	2	Professional-grade handheld 3-axis motorized camera gimbal suitable for podcast and video production. Stabilization across Pan, Tilt, and Roll axes. Suitable for recording podcasts, interviews, B-roll, walk-and-talk videos, behind-the-scenes footage, and dynamic video content. Minimum payload capacity of 2.5 kg. Compatible with professional mirrorless and DSLR cameras. Advanced high-precision motors for smooth and stable footage. Multiple operating modes, including Pan Follow, Follow Mode, Lock Mode, POV/FPV Mode, and customizable user modes. 360-degree or near-continuous pan rotation. Integrated joystick and touchscreen/display or equivalent interface for configuration and control. Bluetooth and/or Wi-Fi connectivity for compatible camera control. Support for compatible camera functions, including record start/stop, shutter, and other supported controls. Preferably equipped with AI-based subject/person tracking, either built-in or through an included compatible tracking module. Minimum 10 hours of battery operating time. Rechargeable battery with USB-C charging. Preferably capable of full charging within 3 hours or less. Quick-release camera mounting plate/system for easy installation and removal. Simplified or tool-less camera balancing mechanism. Axis lock mechanism for convenient setup, balancing, and transportation. Standard 1/4"-20 mounting points for accessories and additional mounting options. Compatible with an extension grip and/or mini tripod for stationary and low-angle recording. Preferably weighing not more than 2 kg, excluding the camera and lens. Durable, professional-grade construction suitable for frequent studio use. Compatible mobile application for configuration, calibration, subject tracking, and advanced controls. Supply shall include quick-release plate, mini tripod/grip, charging accessories, required cables, and a protective carrying case.

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
3	Professional Full-Frame Cinema Camera	2	Full-frame cinema camera designed for Podcast recording and research documentation, interviews, usability testing, and studio production Full-frame image sensor (approximately 35mm format) for cinematic image quality and superior low-light performance Sensor resolution of minimum 24 megapixels or higher Supports professional video recording formats including: 8K RAW recording capability (preferred) 6K/4K UHD high-quality video capture Supports cinematic frame rates including: 30/60 fps for professional video recording Professional RAW and compressed recording formats support (e.g., ProRes RAW, Cinema RAW, equivalent formats) High ISO performance with advanced noise reduction for low-light environments Professional color science with support for: HDR workflows 10-bit color depth or higher Supports 10-bit 4:2:2 internal recording or higher Interchangeable lens mount supporting professional cinema and photographic lenses Advanced autofocus system with: Face detection, Eye detection, Subject tracking, Continuous autofocus capability, Manual focus assist features including focus peaking and magnification Built-in image stabilization support or compatibility with stabilized lenses/gimbals, Dual memory card slots supporting high-speed media (CFexpress, CFast, SD UHS-II, or equivalent), High-speed data transfer interfaces including USB-C, HDMI, and professional video outputs, Supports professional audio recording with: XLR microphone inputs, 24-bit audio recording, External microphone and audio mixer integration, Integrated timecode support for multi-camera synchronization High-resolution electronic viewfinder (EVF) and/or professional monitoring output support, Supports external monitor and recorder integration through HDMI/SDI outputs, Dust and moisture-resistant professional-grade body construction Ergonomic design suitable for studio and field production environments Supports tripod, rig, gimbal, and studio mounting accessories Efficient thermal management system for extended continuous recording Wi-Fi/Bluetooth/network connectivity for remote monitoring and camera control (where applicable) Compatible with professional editing and post-production workflows Supports LUT management and advanced color grading

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
4	Professional Super 35 Cinema Camera	4	Super 35 cinema camera designed for filmmaking, research documentation, interviews, usability testing, studio production, and broadcast applications Super 35mm image sensor (approximately APS-C cinema format) optimized for cinematic video production Sensor resolution of minimum 8 megapixels or higher with high-quality 4K/6K video capability Supports professional video recording resolutions including: 6K recording capability (preferred) 4K UHD (3840 × 2160 pixels) Full HD recording for extended workflows Supports cinematic frame rates: 24 fps for cinema production 25/30 fps for standard recording 50/60 fps for smooth motion capture High-frame-rate recording (120 fps or higher, where supported) Professional RAW video recording capability or equivalent high-quality codec support Supports advanced recording formats such as ProRes, Cinema RAW, BRAW, or equivalent professional formats Wide dynamic range of minimum 13+ stops for capturing detailed highlights and shadows Supports 10-bit color depth with 4:2:2 color sampling or higher Advanced color science with support for: Log recording profiles HDR workflows LUT-based monitoring and color grading High-performance image processor for real-time video processing and noise reduction Interchangeable lens mount supporting professional cinema lenses Supports manual focus control with: Focus peaking Focus magnification Focus assist tools Advanced autofocus capability including: Face detection Eye detection Subject tracking (where supported) Supports professional cinema accessories including: Camera cages Follow focus systems Matte boxes Gimbals Tripods Shoulder rigs Dual high-speed media recording slots supporting professional storage formats (CFexpress, CFast, SD UHS-II, or equivalent) Professional video outputs including HDMI and/or SDI for external monitoring and recording Professional audio support including: XLR microphone inputs 24-bit digital audio recording External microphone and mixer integration Timecode input/output support for multi-camera synchronization High-resolution electronic viewfinder (EVF) and/or external monitor support Supports external recorder integration for extended recording workflows Built-in cooling system for long-duration professional

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
5	Zoom Lens	1	Professional-grade cinema zoom lens designed for high-quality video production, interviews, usability testing, research documentation, and studio recording Compatible with professional cinema cameras and Super 35 / full-frame camera systems Optical zoom range suitable for professional applications (e.g., 18–80mm, 24–70mm, 24–105mm, or equivalent) Constant aperture design for consistent exposure throughout the zoom range Maximum aperture of T2.8 or faster (preferred) for low-light performance and shallow depth-of-field control Professional cinema-grade optical elements for high-resolution image capture Supports 4K, 6K, and 8K video workflows, Low distortion optical design for accurate image reproduction, Advanced lens coatings to reduce flare, ghosting, and chromatic aberration, Smooth manual zoom, focus, and iris control for professional video production Long focus throw for precise manual focusing during cinematic recording, Minimal focus breathing during focus transitions Parfocal design maintaining focus while zooming (preferred), Compatible with follow-focus systems and cinema camera rigs Standard professional lens mount compatibility (PL, EF, RF, E, or equivalent depending on camera system) Integrated focus distance and focal length markings, Supports manual and electronic focus control (where applicable) High-quality diaphragm system for smooth and natural bokeh,Durable metal construction suitable for professional studio and field environments Dust and moisture-resistant design for reliable operation, Compatible with matte boxes, lens filters, and professional camera accessories Lightweight and balanced design suitable for handheld, tripod, and gimbal operation Supports image stabilization through compatible camera systems (where applicable)

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
6	Broadcast Dynamic Microphone	4	Professional-grade broadcast dynamic microphone designed for podcasting, broadcasting, voice-over recording, interviews, focus groups, usability research, and studio production Dynamic moving-coil microphone with cardioid or supercardioid polar pattern for focused voice capture and effective background noise rejection Frequency response range of 50 Hz – 15 kHz or wider, optimized for natural speech reproduction High sensitivity and low self-noise for clear and intelligible vocal recordings Excellent off-axis rejection to minimize ambient noise and room reflections High maximum Sound Pressure Level (SPL) handling capability suitable for close-mic broadcasting applications Integrated internal pop filter or windscreen to reduce plosive sounds and breath noise Internal shock-mount system to minimize handling noise and mechanical vibrations Balanced XLR 3-pin output for professional audio equipment compatibility Low-impedance output (approximately 150–600 Ohms) Compatible with professional audio mixers, USB audio interfaces, broadcast consoles, and digital recording systems Supports phantom power-independent operation (dynamic microphone design) Rugged all-metal construction for long-term professional use Corrosion-resistant grille with durable protective finish Standard 5/8-inch microphone stand thread with adapter for universal mounting compatibility Compatible with boom arms, desktop microphone stands, floor stands, and shock mounts Suitable for close-proximity voice recording with consistent audio quality Designed for continuous operation in professional studios, conference rooms, and research laboratories

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
7	Inline Microphone Gain Booster	4	Professional-grade inline microphone gain booster designed to provide clean, low-noise gain for dynamic and ribbon microphones used in broadcasting, podcasting, studio recording, and research environments Provides minimum +20 dB to +30 dB of clean, transparent gain Ultra-low noise preamplification with minimal distortion Wide frequency response of 20 Hz – 20 kHz or better Low Total Harmonic Distortion (THD) for accurate audio reproduction High signal-to-noise ratio (SNR) for professional-quality voice recordings Balanced XLR male input and XLR female output connectors Compatible with professional dynamic and passive ribbon microphones Powered via 48 V phantom power supplied by an audio interface or mixer, without passing phantom power to the connected microphone Does not require external batteries or dedicated power adapters Low output impedance for long cable runs without signal degradation Shielded circuitry to minimize electromagnetic interference (EMI) and radio frequency interference (RFI) Rugged all-metal enclosure suitable for continuous professional use Compact inline design for easy installation between microphone and XLR cable Plug-and-play operation with no software or driver installation required Compatible with professional audio interfaces, mixers, field recorders, and broadcast consoles Supports studio, podcast, live broadcast, conferencing, and research recording applications Durable connectors designed for repeated connection and disconnection Operating temperature suitable for professional indoor environments

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
8	Podcast Production Console	1	Professional-grade podcast production console designed for podcast studios, broadcast production, interviews, live streaming, and professional audio recording environments Integrated digital audio mixer, audio interface, and production control system for multi-channel podcast workflows Minimum 4–8 microphone input channels with professional-grade preamps Balanced XLR microphone inputs with high-quality microphone preamplifiers Integrated 48V phantom power support for condenser microphones High-gain microphone amplification suitable for dynamic broadcast microphones Low-noise audio processing with high signal-to-noise ratio Supports 24-bit / 48 kHz or higher digital audio resolution Integrated Digital Signal Processing (DSP) including: Equalization (EQ), Compression, Noise reduction, Limiting Reverb/effects processing, Dedicated headphone outputs with independent volume controls for multiple participants, Multiple headphone monitoring channels (minimum 4 preferred), Individual channel gain, mute, solo, and volume controls Physical control knobs/faders for real-time audio adjustment during recording, Programmable sound pads or trigger buttons for: Intro/outro music, Sound effects, Advertisements, Voice effects, Custom audio clips, Supports multi-track recording for individual voice processing during post-production, Integrated USB-C/USB audio interface connectivity with computers and recording systems Compatible with Windows and macOS operating systems Supports professional recording software and Digital Audio Workstations (DAWs) Supports direct recording to memory card/storage media (where applicable) Bluetooth audio input support for remote guests and mobile devices (preferred) Supports smartphone connectivity for remote interviews and call-in guests Real-time monitoring with zero or near-zero latency Supports external speakers, studio monitors, and professional audio equipment Durable professional-grade chassis suitable for continuous studio operation Compact desktop form factor suitable for podcast studios and recording rooms Firmware/software upgrade support for future enhancements

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
9	Studio Boom Arm	2	Professional-grade studio boom arm designed for podcasting, broadcasting, voice recording, interviews, and professional audio production environments Heavy-duty adjustable microphone mounting arm suitable for broadcast dynamic microphones, condenser microphones, and studio recording equipment Load capacity supporting microphones and accessories weighing minimum 1.5 kg or higher Fully adjustable articulated arm with multi-axis positioning capability Provides smooth horizontal and vertical movement for precise microphone placement Minimum horizontal reach of 700–900 mm (preferred) Minimum vertical adjustment range of 500 mm or higher 360° rotation capability for flexible microphone positioning Internal spring or tension-control mechanism for stable and silent adjustments Lockable joints to maintain microphone position during recording sessions Professional-grade aluminum alloy or steel construction for durability Integrated cable management system for clean routing of XLR and USB microphone cables Compatible with standard 3/8-inch and 5/8-inch microphone mounts Includes microphone adapter for compatibility with professional broadcast microphones Supports installation on desks, studio tables, and podcast workstations Clamp-based mounting system with protective padding to prevent surface damage Strong and stable base clamp suitable for long-duration studio operation Low-noise movement design to prevent mechanical sounds during recording Supports shock mounts, pop filters, and microphone accessories Compact foldable design for easy storage and repositioning Suitable for multi-user podcast studios and professional recording environments

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
10	XLR Audio Cables	4	Professional-grade balanced XLR audio cables designed for broadcast, podcast production, studio recording, usability testing, and professional audio environments Supports balanced analog audio transmission with low noise and high signal integrity 3-pin XLR male-to-female connectors for professional microphone and audio equipment connectivity High-quality oxygen-free copper (OFC) conductors for superior signal transmission Balanced shielding design to minimize electromagnetic interference (EMI) and radio frequency interference (RFI) Heavy-duty braided or multi-layer shielding for noise rejection and durability Low capacitance cable design for accurate audio reproduction Supports professional microphone-level and line-level audio signals Frequency response range of 20 Hz – 20 kHz or higher Low signal loss suitable for professional studio and broadcast applications Durable outer jacket resistant to wear, bending, and environmental stress Flexible cable construction suitable for studio routing and repeated use Premium metal XLR connectors with secure locking mechanism Gold-plated connector contacts (preferred) for corrosion resistance and reliable connectivity Strain relief protection at connector points to prevent cable damage Available in multiple lengths suitable for studio requirements: Minimum 3 meters Preferred 5 meters or longer for flexible studio setups Compatible with: Broadcast dynamic microphones Podcast production consoles Audio mixers Audio interfaces Studio monitors Professional recording equipment Suitable for continuous professional operation in podcast studios, research labs, and recording environments

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
11	Monitoring Headphones	2	Studio monitoring headphones designed for podcast production, audio recording, usability research, broadcast, and professional sound monitoring applications Closed-back or open-back professional monitoring design for accurate audio reproduction and isolation (as required by application) Over-ear circumaural design providing extended comfort during long recording and monitoring sessions Wide frequency response range of 5 Hz – 40 kHz or better High-resolution audio reproduction with balanced bass, mids, and treble response Low Total Harmonic Distortion (THD) for accurate sound monitoring High sensitivity rating for clear monitoring at low power levels Impedance range suitable for professional audio equipment (32–250 Ohms, depending on configuration) Large dynamic drivers (minimum 40 mm) for detailed and accurate audio reproduction Excellent passive noise isolation to minimize external sound interference Comfortable memory foam ear cushions suitable for extended use Adjustable padded headband with ergonomic fit for different users Lightweight construction to reduce user fatigue during long sessions Detachable professional-grade audio cable with secure connector Standard 3.5 mm and 6.35 mm (1/4 inch) adapter support for compatibility with audio equipment High-quality oxygen-free copper (OFC) cable for reliable signal transmission Durable metal-reinforced construction suitable for professional studio environments Foldable design (preferred) for portability and storage Supports accurate monitoring during: Recording sessions, Mixing and post-production, Voice recording, Podcast production, Interview sessions, Audio quality evaluation, Compatible with: Podcast production consoles, Audio interfaces, Mixers, Digital audio workstations (DAWs), Professional recording systems

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
12	200W Bi-Color LED Studio Light	2	200W Bi-Color LED studio lighting system designed for podcast studios, video production, interviews, usability testing, photography, and research documentation environments High-output LED lighting fixture with minimum 200W power consumption/output capability for professional studio illumination Adjustable bi-color temperature range from 2700K to 6500K or wider Continuous brightness adjustment from 0–100% dimming without color shift High color accuracy with CRI ≥95 and TLCI ≥95 for natural and accurate skin tone reproduction Flicker-free LED operation suitable for professional video recording and high-frame-rate cameras High luminous output suitable for studio, interview, and controlled lighting environments Adjustable beam angle or compatibility with interchangeable reflectors and light modifiers Supports soft lighting through compatible: Softboxes, Diffusers, Umbrellas, Reflectors, Grid attachments, Professional-grade COB LED light source for consistent and uniform illumination Advanced heat management system with silent or low-noise cooling operation, Low fan noise suitable for podcast recording and audio-sensitive environments Digital control interface for adjusting: Brightness level, Color temperature, Lighting effects, Operating modes, Supports wireless lighting control through: Remote controller, Mobile application, DMX control (preferred), Multiple built-in lighting effects including: Flash,Lightning, TV simulation, Candle/fire effects, Emergency lighting effects, Supports AC power operation for continuous studio use Universal mounting compatibility with professional light stands and studio rigs, Standard Bowens mount or equivalent for professional light modifiers Adjustable mounting bracket with tilt control for precise light positioning,Durable aluminum alloy or professional-grade housing construction Lightweight and portable design suitable for studio and field production, Supports continuous operation for extended recording sessions Energy-efficient LED technology with low heat generation, Compatible with professional cameras, cinema cameras, webcams, and video production systems

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
13	Large Softbox	2	Large softbox lighting modifier designed for studio photography, video production, podcast recording, interviews, usability testing, and research documentation environments Compatible with professional LED studio lights, COB lights, and continuous lighting systems Large diffusion surface for producing soft, uniform, and shadow-free illumination Minimum size of 90 cm × 120 cm or equivalent large-format configuration Octagonal, rectangular, or parabolic softbox design suitable for professional studio applications High-quality heat-resistant fabric construction for continuous lighting operation Multi-layer diffusion system for improved light softness and even distribution Includes internal diffuser and external diffuser for precise light control Supports removable inner baffle and front diffusion panel for adjustable light intensity and softness Compatible with Bowens mount or equivalent professional lighting mount systems Includes reflective inner lining to maximize light output efficiency Provides controlled beam spread with reduced glare and harsh shadows Supports grid attachment for directional lighting control and spill reduction Quick assembly and disassembly mechanism for efficient studio setup Durable metal frame and reinforced mounting structure for long-term professional use Adjustable tilt bracket support for accurate light positioning Compatible with studio light stands and professional mounting systems Lightweight and portable design suitable for studio and mobile production environments Heat-resistant materials suitable for high-output LED lighting systems Easy-to-clean fabric surface for multi-user professional environments Suitable for multi-camera recording setups and controlled lighting conditions

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
14	Heavy-Duty C-Stand with Boom Arm	4	Heavy-duty C-Stand with boom arm designed for supporting studio lights, softboxes, reflectors, microphones, cameras, and other production accessories in professional studio and research environments Heavy-duty stainless steel or chrome-plated steel construction for maximum durability and stability Minimum load capacity of 10 kg or higher Adjustable working height ranging from 1.5 m to 3.3 m (minimum) Detachable boom arm with a minimum length of 1.0–1.3 m Boom arm capable of supporting lighting fixtures and accessories with secure locking mechanisms Includes 2.5-inch grip head (gobo head) or equivalent for precise positioning and secure mounting Supports 360° rotation and multi-angle adjustment for flexible equipment positioning Turtle-base or detachable base design for easy transportation and compact storage Wide footprint with staggered legs for enhanced stability on uneven surfaces One sliding leg or leveling leg for use on stairs and uneven flooring Non-slip rubber feet for secure placement and floor protection Compatible with standard 5/8-inch (16 mm) baby pin mounting systems Supports mounting of: LED studio lights Softboxes Reflectors Flags and scrims Microphones Cameras Monitors Other studio accessories Heavy-duty locking knobs and clamps for secure positioning under load Corrosion-resistant finish suitable for long-term professional use Suitable for continuous operation in studio, laboratory, and production environments Foldable design for convenient transport and storage Tool-free assembly and adjustment Compatible with professional lighting and camera accessories from multiple manufacturers

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
15	LED Tube Light	1	Professional-grade LED Tube Light designed for studio lighting, video production, photography, podcasting, usability testing, focus groups, and research documentation High-efficiency LED light source with minimum 30W output per tube Available in 2 ft (60 cm) or 4 ft (120 cm) lengths Adjustable bi-color color temperature ranging from 2700K to 6500K Continuous 0–100% flicker-free dimming Color Rendering Index (CRI ≥96) and Television Lighting Consistency Index (TLCI ≥97) for accurate color reproduction Minimum illumination of 2,000 lux at 1 meter (or equivalent output) Flicker-free operation suitable for high-speed photography and professional video recording Wide beam angle (minimum 120°) for uniform light distribution Supports multiple lighting modes including: CCT (Bi-Color) RGB mode (preferred) HSI color control (preferred) Pre-programmed lighting effects (preferred) Integrated LCD/OLED display for real-time control of brightness, color temperature, battery status, and lighting modes Wireless control via Bluetooth, 2.4 GHz wireless remote, or mobile application DMX512 compatibility (preferred) for integration with professional lighting control systems Rechargeable lithium-ion battery providing a minimum of 2 hours operation at full brightness AC power adapter for continuous studio operation USB-C or equivalent charging interface Lightweight aluminum alloy housing with impact-resistant construction Passive or ultra-low-noise cooling suitable for audio recording environments Standard 1/4"-20 mounting threads at both ends for tripods, C-stands, and lighting accessories Supports handheld operation and horizontal or vertical mounting Compatible with grids, diffusers, softboxes, and other lighting modifiers (where applicable) Suitable for continuous operation in professional studios and laboratory environments

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
16	Multi-Camera Video Switcher	1	Professional-grade multi-camera video switcher designed for live production, podcasting, broadcasting, usability testing, training, and multimedia recording Supports a minimum of 8 video inputs (HDMI, SDI, or a combination) with support for simultaneous multi-camera operation Supports video resolutions up to 4K UHD (3840 × 2160) at 60 fps Automatic input format detection and frame synchronization on all video inputs Minimum 2 independent program outputs (HDMI, SDI, USB-C, or equivalent) Dedicated multiview output for real-time monitoring of all connected video sources Integrated hardware scaler for mixed-resolution input support Real-time switching between multiple video sources with low-latency performance Supports transition effects including cut, mix, fade, wipe, dissolve, dip, and customizable transitions Built-in Picture-in-Picture (PiP), Picture-by-Picture (PbP), split-screen, and keying functions Supports upstream and downstream keyers for graphics, titles, logos, and overlays Chroma key and luma key support for green screen production Integrated media player for still images, graphics, lower-thirds, and branding assets Audio mixer with support for embedded HDMI/SDI audio and external analog audio inputs Supports professional audio processing including gain control, equalization, delay, and audio-follow-video (AFV) USB interface supporting webcam/UVC output for video conferencing and live streaming platforms Ethernet connectivity for remote configuration, monitoring, and control Supports recording directly to external USB storage or network storage (where applicable) Compatible with major live streaming platforms and video conferencing applications Supports RTMP/RTMPS streaming protocols (where applicable) Front-panel hardware controls with illuminated buttons and integrated LCD/OLED display Software-based control application compatible with Windows and macOS Macro and preset functionality for automated production workflows Timecode and synchronization support for professional production environments Firmware upgrade capability via USB or network interface Rack-mountable or compact desktop design suitable for studio installations Supports continuous operation in professional broadcast and

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
17	Professional Fluid Head Tripods	4	Professional-grade fluid head tripod system designed for cinema cameras, broadcast cameras, DSLR/mirrorless cameras, video production, usability testing, interviews, and studio recording environments Heavy-duty tripod construction using aluminum alloy, carbon fiber, or equivalent professional-grade material Supports camera systems with a minimum payload capacity of 8–12 kg or higher Professional fluid video head with smooth pan and tilt movement for cinematic camera operation Continuous fluid drag control for both pan and tilt axes Adjustable counterbalance system to support different camera weights and configurations 360° continuous pan rotation with adjustable pan drag control Tilt range of minimum +90° / -75° or equivalent Integrated safety locking mechanism to prevent accidental camera movement Compatible with professional cameras, cinema cameras, camcorders, and DSLR/mirrorless systems Supports standard 75 mm or 100 mm bowl mounting system for professional leveling and stability Quick-release camera plate with: Sliding adjustment capability ,Secure locking mechanism, 1/4"-20 and 3/8"-16 mounting screws, Tripod height adjustment range: Minimum height: 70 cm or lower , Maximum height: 170 cm or higher, Three-stage or two-stage telescopic tripod legs for flexible height adjustment Mid-level or ground-level spreader system for enhanced stability,Adjustable rubber feet with retractable spikes for indoor and outdoor use Built-in bubble level for accurate setup and alignment, Ergonomic pan handle with adjustable positioning, Vibration-resistant design for stable video capture Durable locking clamps and adjustment mechanisms for professional use, Foldable design with carrying case for transportation and storage Compatible with: Cinema cameras, Professional camcorders, Full-frame cameras, Super 35 cinema cameras, Video production accessories, Suitable for long-duration recording sessions in studio and field environments

Lot 4	__EMPTY	__EMPTY_1	__EMPTY_2
18	Power Conditioner	1	power conditioner designed to provide clean, stable, and protected power supply for audio, video, broadcast, research laboratory, and studio equipment Provides power filtering, surge protection, voltage regulation, and electrical noise reduction for sensitive electronic equipment Rack-mountable 19-inch professional form factor suitable for studio and equipment rack installations Minimum 8 AC power outlets with universal compatibility (preferred) Total power capacity of minimum 1,500 VA / 1,500–1,800 Watts or higher Operating voltage support: 220–240V AC, 50/60 Hz (suitable for Pakistan power standards) Built-in surge protection with minimum 3,000 Joules surge energy rating Provides protection against: Voltage spikes , Power surges, Electrical noise, EMI/RFI interference, Over-voltage and under-voltage conditions EMI/RFI noise filtration for clean power delivery to professional audio and video equipment, Advanced AC filtering technology to reduce hum, interference, and signal distortion in audio/video systems, Automatic voltage regulation (AVR) to maintain stable output voltage during fluctuations (preferred) Individual outlet switching or grouped outlet control (preferred), Front-panel power status indicators displaying: Voltage status, Protection status, Ground status, Power availability, Built-in circuit breaker or overload protection mechanism Heavy-duty power cable with appropriate current rating and safety certification, Supports professional equipment including: Audio mixers and podcast consoles, Microphones and audio interfaces, Studio monitors, Cameras and video switchers LED lighting systems, Computers and workstations, Display systems, VR/XR equipment,Research laboratory devices High-quality internal components designed for continuous professional operation, Durable metal chassis construction for rack installation and long-term reliability, Thermal protection and efficient heat dissipation design, Low-maintenance operation with no software dependency Compliance with international electrical safety standards (CE, RoHS, UL or equivalent preferred)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Price Schedule

For Individual Items

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

For Lots

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

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. Definitions

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

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

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

c. “Authority” means Public Procurement Regulatory Authority.

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

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

f. “Procuring Agency” means:-

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

s. “Government” means the Government of Pakistan;

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

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

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

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

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

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

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

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

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

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

2. Application and Interpretation

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

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

3. Applicable Law

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

4. Governing Language

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

5. Notices

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

6. Standard

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

7. Delivery/Location

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

8. Authorized Representatives / Authority of Member in charge

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

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

8. Effectiveness of Contract

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

9. Commencement of the Contract

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

10. Program

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

11. Starting Date/Expiration Date

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

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

12. Entire Agreement

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

13. Modification

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

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

14. Force Majeure

14.1 Definition

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

14.2 No Breach of Contract

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

14.3 Extension of Time

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

14.4 Payments

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

15. Termination

15.1 By the Procuring Agency

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

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

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

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

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

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

15.2 By the Bidder

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

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

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

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

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

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

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

16.2 Law Applicable to Goods

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

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

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

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

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

17.3 Prohibition of Conflicting Activities

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

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

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

18. Confidentiality

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

19. Insurance to be Taken Out by the Bidder

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

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

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

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

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

(b) changing the Program of activities; and

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

21. Reporting Obligations

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

22. Liquidated Damages

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

22.2 Correction for Over-payment

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

22.3 Lack of performance penalty

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

23. Performance Guarantee

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

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

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

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

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

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

24. Fraud and Corruption

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

25. Sustainable Procurement

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

D. Bidder's Personnel

26. Description of Personnel

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

27. Removal and/or Replacement of Personnel

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

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

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

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

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

29. Change in the Applicable Law

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

30. Services and Facilities

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

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

F. Payments to the Bidder

31. Contract Price

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

32. Terms and Conditions of Payment

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

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

33. Currency of Payment

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

G. Quality Control

34. Identifying Defects

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

35. Correction of Defects, and

Lack of Performance Penalty

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

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

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

36. Taxes and Duties

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

H. Settlement of Disputes

37. Alternate Dispute Resolution

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

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

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

38. Change Orders

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

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

39. Contract Amendenments

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

40. Sub-Contracts

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

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

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

Number of GC Clause

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

Number of GC Clause 1

Definitions

The Procuring Agency is: **Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate 4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan**

The Supplier is:

The title of the subject procurement is: **PROCUREMENT OF CITIZEN EXPERIENCE DESIGN LAB FOR PDA OFFICE**

Number of GC Clause 3

Applicable/Governing Law:

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

Number of GC Clause 4

Language:

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

Number of GC Clause 5

Notices:

The addresses for the notices are:

The Authority:

Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate
4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan
+92-331-517-7156
procurement@pda.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:

Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate
4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan
+92-331-517-7156
procurement@pda.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 **1.00%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the

Authority.

Number of GC Clause 23

Performance Guarantee:

Instrument of Performance Guarantee shall be in the Name of : **Pakistan Digital Authority**

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Pay Order, Call at Deposit, Bank Guarantee**

Number of GC Clause 32

Payment terms:

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

Number of GC Clause 33

Currency of Payment:

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

Number of GC Clause 34

Identifying Defects:

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

Number of GC Clause 37

Following is the guidance for Dispute Resolution

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

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

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

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

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

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

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

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

Rules of procedure for arbitration proceedings:

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

Place of Arbitration and Award:

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

Bid Securing Declaration

Form 9: Bid Securing Declaration

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

Bid No.:***P158328***

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

To: **Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate 4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan**

We, the undersigned, declare that:

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

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

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

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

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

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

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

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

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

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

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

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate 4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan**

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

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **PROCUREMENT OF CITIZEN EXPERIENCE DESIGN LAB FOR PDA OFFICE (*P158328*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

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

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

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

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

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

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

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

Witness to the signatures of the Procuring Agency:

……

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

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Integrity Pact

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

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

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

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

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

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

Performance Guarantee Form

Performance Guarantee Form

To: **Pakistan Digital Authority (Ministry of IT & Telecom), Procurement Associate 4th Floor, 5-A Constitution Avenue Sector F-5/1, Islamabad 44000, Pakistan**

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

TORs (Annex-A)

Information (Read-Only)

See Form Under Additional Forms and Documents: **TORs (Annex-A)** (page number: 127)

Instructions for Bidders (Annex-B)

Information (Read-Only)

See Form Under Additional Forms and Documents: **Instructions for Bidders (Annex-B)** (page number: 133)

LOT 1 Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **LOT 1 Financial Proposal** (page number: 134)

LOT 2 Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **LOT 2 Financial Proposal** (page number: 137)

LOT 3 Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **LOT 3 Financial Proposal** (page number: 139)

LOT 4 Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **LOT 4 Financial Proposal** (page number: 141)

Payment Terms & Related Commercial Conditions (Annex-C)

Information (Read-Only)

See Form Under Additional Forms and Documents: **Payment Terms & Related Commercial Conditions (Annex-C)** (page number: 143)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
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Additional Forms and Documents

Terms of Reference (TORs)

Installation, Warranty and Related Services

Supply, Installation and Commissioning of Equipment – PDA, Islamabad

Contents

No.	Section	Qty (as in source)
1	Installation and Integration Services	1
2	System Documentation	
3	Trainings	
4	Software and Firmware Updates	
5	Warranty and Maintenance Support	
6	Cables, Connectors	
7	System Documentation	1
8	Trainings	1
9	Software and Firmware Updates	1
10	Warranty and Maintenance Support	1
11	Cables, Connectors	1

Sections are reproduced in the same order as the source spreadsheet. Sections 7–11 repeat the titles of sections 2–6 in the source; their text is identical except for the minimum warranty period in section 10 (see section 5 vs section 10).

1 Installation and Integration Services — Qty: 1

Complete end-to-end installation, configuration, and commissioning services for the curved screen immersive display system with Video Wall Processor

- Site assessment and installation planning including space verification, power requirements, network requirements, and environmental considerations
- Professional installation of curved display panels with proper alignment, leveling, and structural mounting
- Supply and installation of required mounting structures, brackets, frames, and support assemblies
- Multi-display alignment and calibration to ensure seamless panoramic viewing experience
- Configuration of display geometry, curvature, brightness, contrast, and color uniformity
- Installation and configuration of video processing units, display controllers, and synchronization hardware
- Integration with high-performance graphics workstations and visualization systems
- Configuration of required drivers, firmware, and system software
- Configuration of input sources including HDMI, DisplayPort, USB-C, Video Wall Processor and network-based video inputs
- Setup and optimization of multi-screen rendering and extended desktop configurations
- Installation and configuration of required control software and display management tools

■ **System calibration including:**
  - Color calibration
  - Brightness uniformity adjustment
  - Image alignment
  - Resolution optimization
  - Multi-display synchronization

- Testing of display performance including resolution, refresh rate, latency, and visual quality validation

■ **Integration testing with supporting equipment including:**
  - Eye tracking systems
  - Motion tracking systems
  - Audio systems
  - Simulation software
  - Interactive visualization platforms

- Cable management including power, video, network, and control cabling with professional routing
- Power and electrical setup including connection verification and safety compliance
- Network configuration for connected immersive systems and remote management (where applicable)
- Development and validation of operational workflows for research and usability testing sessions
- User acceptance testing (UAT) after installation and integration completion
- Performance optimization for immersive applications and real-time visualization workloads
- Documentation of complete system architecture, configuration settings, and operational procedures
- Provision of installation manuals, system diagrams, and troubleshooting guides

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- **On-site training for operators and research staff covering:**
  - System operation
  - Calibration procedures
  - Basic troubleshooting
  - Daily maintenance
- Preventive maintenance guidelines and recommended service schedule
- Technical support during commissioning and initial operational period
- Minimum one-year warranty/support coverage for installation and integration services
- Compliance with applicable electrical, safety, and professional installation standards

Required Deliverables:

- Site readiness assessment report
- Installation and integration plan
- Fully installed and operational curved immersive display system
- System calibration and performance test report
- Integration validation report
- User training completion report
- Technical documentation and system configuration records
- Warranty and support documentation.

2 System Documentation

- Complete documentation package shall be provided for all supplied equipment and integrated systems
- **Documentation must include:**
  - User manuals
  - Installation manuals
  - Configuration guides
  - Technical datasheets
  - System architecture diagrams
  - Connectivity diagrams
  - Operating procedures
  - Troubleshooting guides
  - Maintenance guidelines
- **Documentation shall include detailed information on:**
  - Hardware installation
  - Software configuration
  - Network requirements
  - Device integration
  - Calibration procedures
  - Safety instructions
- Provide digital documentation in PDF format and editable formats where applicable
- **Provide equipment inventory documentation including:**
  - Product details
  - Serial numbers
  - Warranty information
  - License details
  - Accessories list
- Provide standard operating procedures (SOPs) for laboratory and studio operations
- Documentation must be updated whenever firmware/software updates or configuration changes are implemented

3 Trainings

- Comprehensive training services shall be provided for successful operation, administration, and maintenance of supplied systems
- Training shall be conducted by qualified technical personnel or certified trainers
- **Training program shall include:**
  - Equipment operation
  - System configuration
  - Software usage
  - Calibration procedures
  - Data collection workflows
  - Troubleshooting procedures
  - Preventive maintenance
- Hands-on practical sessions shall be conducted using installed equipment
- Training materials including presentations, manuals, quick reference guides, and operational checklists shall be provided
- Training schedule shall be coordinated with the customer after installation and commissioning
- Additional refresher training sessions shall be provided where required

4 Software and Firmware Updates

- Supplier shall provide access to all required software updates, firmware upgrades, drivers, and security patches during the warranty/support period

■ **Updates shall include:**
  - Device firmware updates
  - Application/software upgrades
  - Security patches
  - Compatibility improvements
  - Performance enhancements

- Supplier shall notify the customer regarding availability of critical updates
- Updates shall be provided through official manufacturer channels
- Supplier shall support installation and verification of updates where required
- Firmware updates must maintain compatibility with existing hardware configurations
- Software licenses and subscriptions required for system operation shall be provided and maintained
- Supplier shall provide documentation for all applied updates and configuration changes

5 Warranty and Maintenance Support

- All supplied equipment shall include comprehensive manufacturer warranty and after-sales support

■ **Minimum warranty period:**
  - Three 3 years standard warranty

■ **Warranty shall cover:**
  - Hardware defects
  - Manufacturing faults
  - Component failures
  - Replacement of defective parts
  - Repair services

- Supplier shall provide preventive maintenance support for installed systems

■ **Maintenance services shall include:**
  - Equipment inspection
  - Performance verification
  - Calibration checks
  - Cleaning and servicing
  - Firmware/software health checks

- Supplier shall provide replacement parts and accessories during warranty period

■ **Warranty service shall include:**
  - On-site support (where required)
  - Remote diagnosis
  - Repair or replacement of faulty equipment

■ **Supplier shall maintain service records including:**
  - Maintenance history
  - Fault reports
  - Resolution details
  - Replacement records

- Supplier shall provide escalation mechanism for unresolved technical issues
- Equipment downtime shall be minimized through timely repair and replacement services

6 Cables, Connectors

- Complete supply of all necessary cables, connectors, adapters, mounting accessories, and integration components required for the full operation of supplied systems and equipment
- All cables and accessories must be compatible with the supplied hardware and meet manufacturer-recommended specifications

■ **Supply of connectivity accessories including:**
  - HDMI cables (HDMI 2.0/2.1 certified)
  - USB-A, USB-C, Thunderbolt, and data transfer cables
  - XLR audio cables
  - Ethernet/network cables
  - Power cables and adapters
  - Display and video conversion adapters
  - Audio connectors and adapters
  - Camera mounting accessories
  - Tripod plates and mounting hardware
  - Rack accessories and cable management solutions

- Cables must support required bandwidth, resolution, power delivery, and data transfer requirements of connected devices

- **construction with:**
  - Oxygen-free copper (OFC) conductors
  - Shielded design for EMI/RFI protection
  - Durable outer jackets
  - Reinforced strain relief
  - Corrosion-resistant connectors
- Connectors must provide secure locking mechanisms where applicable
- All accessories must support reliable long-term operation in professional studio, laboratory, and research environments
- Includes all required adapters, converters, splitters, hubs, and interface accessories necessary for complete system functionality
- Cable lengths must be appropriate for installed environments with proper cable routing and management provisions
- Includes labeling and identification of cables for easy maintenance and troubleshooting
- All accessories must be tested and verified before deployment

7 System Documentation — Qty: 1

- Complete documentation package shall be provided for all supplied equipment and integrated systems
- **Documentation must include:**
  - User manuals
  - Installation manuals
  - Configuration guides
  - Technical datasheets
  - System architecture diagrams
  - Connectivity diagrams
  - Operating procedures
  - Troubleshooting guides
  - Maintenance guidelines
- **Documentation shall include detailed information on:**
  - Hardware installation
  - Software configuration
  - Network requirements
  - Device integration
  - Calibration procedures
  - Safety instructions
- Provide digital documentation in PDF format and editable formats where applicable
- **Provide equipment inventory documentation including:**
  - Product details
  - Serial numbers
  - Warranty information
  - License details
  - Accessories list
- Provide standard operating procedures (SOPs) for laboratory and studio operations
- Documentation must be updated whenever firmware/software updates or configuration changes are implemented

8 Trainings — Qty: 1

- Comprehensive training services shall be provided for successful operation, administration, and maintenance of supplied systems
- Training shall be conducted by qualified technical personnel or certified trainers
- **Training program shall include:**
  - Equipment operation
  - System configuration
  - Software usage
  - Calibration procedures
  - Data collection workflows
  - Troubleshooting procedures
  - Preventive maintenance
- Hands-on practical sessions shall be conducted using installed equipment
- Training materials including presentations, manuals, quick reference guides, and operational checklists shall be provided
- Training schedule shall be coordinated with the customer after installation and commissioning
- Additional refresher training sessions shall be provided where required

9 Software and Firmware Updates — Qty: 1

- Supplier shall provide access to all required software updates, firmware upgrades, drivers, and security patches during the warranty/support period

■ **Updates shall include:**
  - Device firmware updates
  - Application/software upgrades
  - Security patches
  - Compatibility improvements
  - Performance enhancements

- Supplier shall notify the customer regarding availability of critical updates
- Updates shall be provided through official manufacturer channels
- Supplier shall support installation and verification of updates where required
- Firmware updates must maintain compatibility with existing hardware configurations
- Software licenses and subscriptions required for system operation shall be provided and maintained
- Supplier shall provide documentation for all applied updates and configuration changes

10 Warranty and Maintenance Support — Qty: 1

- All supplied equipment shall include comprehensive manufacturer warranty and after-sales support

■ **Minimum warranty period:**
  - One (1) year standard warranty
  - Three (3) years preferred for equipment

■ **Warranty shall cover:**
  - Hardware defects
  - Manufacturing faults
  - Component failures
  - Replacement of defective parts
  - Repair services

- Supplier shall provide preventive maintenance support for installed systems

■ **Maintenance services shall include:**
  - Equipment inspection
  - Performance verification
  - Calibration checks
  - Cleaning and servicing
  - Firmware/software health checks

- Supplier shall provide replacement parts and accessories during warranty period

■ **Warranty service shall include:**
  - On-site support (where required)
  - Remote diagnosis
  - Repair or replacement of faulty equipment

■ **Supplier shall maintain service records including:**
  - Maintenance history
  - Fault reports
  - Resolution details
  - Replacement records

- Supplier shall provide escalation mechanism for unresolved technical issues
- Equipment downtime shall be minimized through timely repair and replacement services

11 Cables, Connectors — Qty: 1

- Complete supply of all necessary cables, connectors, adapters, mounting accessories, and integration components required for the full operation of supplied systems and equipment
- All cables and accessories must be compatible with the supplied hardware and meet manufacturer-recommended specifications

■ **Supply of connectivity accessories including:**
  - HDMI cables (HDMI 2.0/2.1 certified)
  - USB-A, USB-C, Thunderbolt, and data transfer cables
  - XLR audio cables
  - Ethernet/network cables
  - Power cables and adapters
  - Display and video conversion adapters
  - Audio connectors and adapters
  - Camera mounting accessories
  - Tripod plates and mounting hardware
  - Rack accessories and cable management solutions

- Cables must support required bandwidth, resolution, power delivery, and data transfer requirements of connected devices

- **construction with:**
  - Oxygen-free copper (OFC) conductors
  - Shielded design for EMI/RFI protection
  - Durable outer jackets
  - Reinforced strain relief
  - Corrosion-resistant connectors
- Connectors must provide secure locking mechanisms where applicable
- All accessories must support reliable long-term operation in professional studio, laboratory, and research environments
- Includes all required adapters, converters, splitters, hubs, and interface accessories necessary for complete system functionality
- Cable lengths must be appropriate for installed environments with proper cable routing and management provisions
- Includes labeling and identification of cables for easy maintenance and troubleshooting
- All accessories must be tested and verified before deployment

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure – Bidding by Lots

Supply, Installation and Commissioning of Equipment – Lots 1 to 4

The requirement is divided into four lots, tendered together in one bidding process under Rule 16(5) of the Public Procurement Rules, 2026. The Installation and Warranty Terms of Reference apply to every lot.

Lot	Title	No. of Items
Lot 1	Usability Lab Room	36
Lot 2	Video Wall Collaborative Room	1
Lot 3	Interactive Screens and Video Conferencing	3
Lot 4	Training Recording Studio and Lab	18
	Total items	**58**

Rules for bidding by lots

1. A bidder may bid for one lot, several lots or all lots.
2. Each lot shall be evaluated and awarded separately. A bidder may be awarded one or more lots.
3. A bid for a lot must quote **all items** of that lot, in the **full quantities** stated, together with the installation, integration, training, documentation, software update and warranty services under the Terms of Reference.
4. A bid for a lot that omits any item, quotes a lower quantity, or excludes any service under the Terms of Reference shall be treated as **non-responsive and rejected for that lot**. Partial bids within a lot shall not be accepted, and no lot shall be split between bidders.
5. Rejection of a bid for one lot shall not affect the bidder's bids for other lots, provided those bids are complete and responsive.
6. Bidders shall submit a separate Price Schedule, Specification Compliance Sheet and bid security for each lot bid.
7. The estimated value used to determine the procurement method, advertisement and approvals is the total value of all four lots (Rule 16(6)).

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Financial Proposal – Price Summary

Supply, Installation and Commissioning of Equipment – Lot 1

All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties.

Name of Bidder: _____

Tender No.: [●]

Lot No.	Lot Title	No. of Equipment Items	Total Bid Price (PKR, inclusive of all applicable taxes)	Total Bid Price in Words
Lot 1	Usability Lab Room	36		

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Financial Proposal – Lot 1: Usability Lab Room

Bill of Quantities. All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties, delivered and installed at PDA, Islamabad.

Name of Bidder: _____

Sr. No.	Item Description	Qty	Unit	Unit Price (PKR, incl. all taxes)	Total Price (PKR, incl. all taxes)
A	**Equipment**				
1	Wireless Microphone	1	No.		
2	Wired Microphones	1	No.		
3	Adaptive Keyboards	1	No.		
4	High-Speed Storage Card	2	No.		
5	Mobile Mounting Solution	2	No.		
6	Professional Soundbar Speaker System	1	No.		
7	Mobile Interaction Sled	1	No.		
8	4K Professional Webcam	1	No.		
9	AI PTZ Camera System	1	No.		
10	Bone Conduction Headphones	1	No.		
11	Adjustable Height Desks	1	No.		
12	Over the ear headphones	3	No.		
13	Quick-Mount Gooseneck Microphone	1	No.		
14	Channel Direct Streaming AV Mixer	1	No.		
15	27-inch 4K Monitor	1	No.		
16	High-Speed Memory Cards	3	No.		
17	External SSD (2 TB)	1	No.		
18	HDMI Cables	2	No.		
19	USB-C Cables	1	No.		
20	Head-Controlled Cursor System	1	No.		

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Sr. No.	Item Description	Qty	Unit	Unit Price (PKR, incl. all taxes)	Total Price (PKR, incl. all taxes)
21	Mouth-Operated Assistive Controller	1	No.		
22	Eye Tracking Analytics Software	1	No.		
23	Wearable Eye Tracking System/Glasses	1	No.		
24	Desktop Eye Tracker	1	No.		
25	High-End AI Laptop Workstation	1	No.		
26	Professional Tower Workstation	1	No.		
27	My Cloud Expert Series EX2 Ultra - 32TB	1	No.		
28	Professional Tablet Device	1	No.		
29	Rugged Enterprise Tablet	1	No.		
30	Premium iOS Smartphone	1	No.		
31	Premium Android Smartphone	1	No.		
32	Mid-Range Android Smartphone	2	No.		
33	Entry-Level Android Smartphone	2	No.		
34	Smart Watch – iOS Compatible	1	No.		
35	Smart Watch – Android Compatible	1	No.		
36	Hand Tracking / Gesture Interaction System	1	No.		

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Financial Proposal – Price Summary

Supply, Installation and Commissioning of Equipment – Lot 2

All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties.

Name of Bidder: _____

Tender No.: [●]

Lot No.	Lot Title	No. of Equipment Items	Total Bid Price (PKR, inclusive of all applicable taxes)	Total Bid Price in Words
Lot 2	Video Wall Collaborative Room	1		

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Financial Proposal – Lot 2: Video Wall Collaborative Room

Bill of Quantities. All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties, delivered and installed at PDA, Islamabad.

Name of Bidder: _____

Sr. No.	Item Description	Qty	Unit	Unit Price (PKR, incl. all taxes)	Total Price (PKR, incl. all taxes)
A	**Equipment**				
1	Indoor LED Video Wall – Collaboration Room/Training room	1	No.		
	Subtotal A – Equipment				

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

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Financial Proposal – Price Summary

Supply, Installation and Commissioning of Equipment – Lot 3

All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties.

Name of Bidder: _____

Tender No.: [●]

Lot No.	Lot Title	No. of Equipment Items	Total Bid Price (PKR, inclusive of all applicable taxes)	Total Bid Price in Words
Lot 3	Interactive Screens and Video Conferencing	3		

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

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Financial Proposal – Lot 3: Interactive Screens and Video Conferencing

Bill of Quantities. All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties, delivered and installed at PDA, Islamabad.

Name of Bidder: _____

Sr. No.	Item Description	Qty	Unit	Unit Price (PKR, incl. all taxes)	Total Price (PKR, incl. all taxes)
A	**Equipment**				
1	75-Inch Interactive Flat Panel Display with Stand	6	No.		
2	98-Inch Interactive Flat Panel Display with Stand	2	No.		
3	Integrated Interactive Meeting and Collaboration System for 20+ Persons	1	No.		
	Subtotal A – Equipment				

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

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Financial Proposal – Price Summary

Supply, Installation and Commissioning of Equipment – Lot 4

All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties.

Name of Bidder: _____

Tender No.: [●]

Lot No.	Lot Title	No. of Equipment Items	Total Bid Price (PKR, inclusive of all applicable taxes)	Total Bid Price in Words
Lot 4	Training Recording Studio and Lab	18		

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

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Financial Proposal – Lot 4: Training Recording Studio and Lab

Bill of Quantities. All prices in Pak Rupees (PKR), inclusive of all applicable taxes and duties, delivered and installed at PDA, Islamabad.

Name of Bidder: _____

Sr. No.	Item Description	Qty	Unit	Unit Price (PKR, incl. all taxes)	Total Price (PKR, incl. all taxes)
A	**Equipment**				
1	Professional Adjustable Studio Lighting System	1	No.		
2	3-Axis Camera Gimbal	2	No.		
3	Professional Full-Frame Cinema Camera	2	No.		
4	Professional Super 35 Cinema Camera	4	No.		
5	Zoom Lens	1	No.		
6	Broadcast Dynamic Microphone	4	No.		
7	Inline Microphone Gain Booster	4	No.		
8	Podcast Production Console	1	No.		
9	Studio Boom Arm	2	No.		
10	XLR Audio Cables	4	No.		
11	Monitoring Headphones	2	No.		
12	200W Bi-Color LED Studio Light	2	No.		
13	Large Softbox	2	No.		
14	Heavy-Duty C-Stand with Boom Arm	4	No.		
15	LED Tube Light	1	No.		
16	Multi-Camera Video Switcher	1	No.		
17	Professional Fluid Head Tripods	4	No.		
18	Power Conditioner	1	No.		
	Subtotal A – Equipment				

Name of authorised signatory: _____

Designation: _____

Signature and company stamp: _____

Date: _____

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Pakistan Digital Authority

Payment Terms & Related Commercial Conditions

1. Application

These Payment Terms apply to the Contract / Purchase Order for all Lots mentioned.

2. Method & Currency of Payment

1. All payments shall be made in Pakistani Rupees (PKR).
2. Prices shall be quoted on a Delivered Duty Paid (DDP) basis to PDA office, Islamabad, inclusive of all applicable taxes, duties, freight, insurance, installation and warranty costs.
3. Contract/PO prices shall remain fixed for the duration of the Contract/PO and shall not be subject to any price adjustment or escalation.
4. No advance payment shall be made under this Contract.

3. Payment Schedule

Payment shall be made lot-wise, as per the following details:

Sr.	Milestone	Certificate / Document Required	Payment %	Timeline
1	Delivery, installation, testing and acceptance of the required item(s) of the respective lot	Acceptance Certificate issued by PDA's Inspection & Acceptance Committee, with original commercial / GST invoice	100% of the lot value	Within 30 days of submission of a complete claim
2	Completion of the warranty period (36 months from the date of Acceptance Certificate)	Certificate of successful discharge of warranty obligations issued by PDA's IT focal person	Release of Performance Guarantee	Within 30 days of the warranty end date

Note: *Payment for a lot shall be released only on full delivery, installation, testing and acceptance of all units of that lot. No payment shall be made against partial delivery of a lot.*

4. Procedure for Payment

1. Payment shall be processed on receipt of the original commercial / GST invoice and the supporting documents.
2. PDA shall make payment within thirty (30) days of submission of a complete and correct invoice / claim by the supplier. An incomplete or incorrect claim shall be returned, and the 30-day period shall run from the date of re-submission of the corrected claim.
3. Any amounts due from the supplier to PDA under the Contract, including liquidated damages, shall be deducted from the payment due.

5. Taxes & Duties

1. The supplier shall be responsible for all taxes for the time being in force under the prevailing laws of Pakistan, including GST, duties, licence fees, insurance, freight charges, local transportation, handling and other incidental charges incurred or accrued during the term of the Contract.
2. PDA shall deduct income tax, sales tax and any other taxes at source at the rates applicable on the date of payment, under the Income Tax Ordinance 2001, the Sales Tax Act 1990 and other applicable laws, and shall issue the corresponding tax deduction certificates to the supplier.
3. The supplier must be registered with FBR for income tax and sales tax, and must appear on the Active Taxpayer List (ATL) at the time of each payment. Where the supplier is not on the ATL, tax shall be deducted at the higher rates prescribed by law.
4. Any change in taxes or duties after the bid submission deadline shall be dealt with in accordance with the applicable law and the Conditions of Contract.

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6. Variation in Quantity

PDA reserves the right to increase or decrease the quantity of any lot by up to fifteen percent (15%) at the time of award. Payment for the varied quantity shall be made on the same terms as stated in these Payment Terms.

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