

Tender Document

Punjab Forensic Science Agency (PFSA)

PURCHASE OF OFFICE & SECURITY EQUIPMENT FOR TRAINING LAB

FSA-TL-2



Punjab Forensic Science Agency (PFSA)

Home Department, Government of the Punjab
Head Office: PFSA Thokar Niaz Baig, Multan Road, Lahore. Pakistan

Tel: +92 42 37840007

Fax: +92 42 99232761

Email: info.pfsa@punjab.gov.pk

Web: www.pfsa.gop.pk

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1- Important Note:

Bidders must ensure that they submit all the required documents indicated in the Bidding Documents without fail. Bids received without, undertakings, valid documentary evidence, supporting documents and the manner for the various requirements mentioned in the Bidding Documents or test certificates are liable to be rejected at the initial stage itself. The data sheets, valid documentary evidences for the critical components as detailed hereinafter should be submitted by the Bidder for scrutiny. It is intimated that no objection shall be entertained regarding the terms and conditions of the Bidding Document at the later stages during tender process.

Applicability of Punjab Procurement Rules, 2014

This Bidding Process will be governed under Punjab Procurement Rules, 2014, as amended from time to time and instructions of the Government of the Punjab received during the completion of the project

2- Invitation to Bid

2.1 PPRA Rules to be followed

Punjab Procurement Rules 2014 will be strictly followed. These may be obtained from PPRA's website:

<http://ppra.punjab.gov.pk/PublicPages/prorules1.aspx>

In this document, unless otherwise mentioned to the contrary, "Rule" means a Rule under the Punjab Procurement Rules 2014.

2.2 Mode of Advertisement(s)

As per Rule 12(1), this Tender is being placed online at PPRA's website, as well as being advertised in print media.

All prospective bidders are required to enclose photo copy of DD/P.O. of Rs. 2000/- in favor of **“Director General, Punjab Forensic Science Agency”** with the bids, OR Original Receipt of Tender Purchased, **else wise the bid will stand rejected.**

2.3 Type of Open Competitive Bidding

As per Rule 38, 2(a), Single Stage - Two Envelope Procedure shall be followed. This is as follows:

- i. The bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- ii. The envelopes shall be marked as **“FINANCIAL PROPOSAL”** and **“TECHNICAL PROPOSAL”** in bold and legible letters to avoid confusion;
- iii. Initially, only the envelope marked **“TECHNICAL PROPOSAL”** shall be opened;
- iv. The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of the procuring agency without being opened;
- v. The Purchaser shall evaluate the technical proposal in a manner prescribed in Section 7, 13 and Annexure-A of this document, without reference to the price and reject any proposal which does not conform to the specified requirements as listed in said Sections.
- vi. During the technical evaluation no amendments in the technical proposal shall be permitted;
- vii. The financial proposals of technically qualified bidders shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
- viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted and

qualified bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders.

In accordance with these rules, interested companies (hereinafter referred to as “Bidders”) applying for bids should submit two separate **bids/envelopes for Financial Proposal and Technical Proposal**.

2.4 Bidding Details (Instruction to Bidders)

All bids must be accompanied by a call deposit equivalent PKR (CDR) of **02% of estimated price (62,615,000/-) in favor of “Director General, Punjab Forensic Science Agency, Lahore”**. The bids along with CDR, Tender Forms, Affidavits, etc., must be delivered into the Tender Box, placed at reception of Punjab Forensic Science Agency, Lahore on or **before 1100 hrs no later than 10-02-2020**. The Technical bids will be publicly opened in the Punjab Forensic Science Agency, Head Office: PFSA Thokar Niaz Baig, Multan Road, Lahore **at 11:30 hours** on the last date of submission of bids. Queries of the Bidders (if any) for seeking clarifications regarding the specifications must be received in writing to the Purchaser within five working days from the date of Tender advertisement. Any query received after five working days shall not be entertained. All queries shall be responded to within due time. PFSA may host a Q&A session, if required, at PFSA premises (Punjab Forensic Science Agency, Head Office: PFSA Thokar Niaz Baig, Multan Road, Lahore). All Bidders shall be informed of the date and time in advance.

The bidder must submit bids on the basis of complete Tender. Failure to meet this condition will cause disqualification of the bidder. The bidder shall submit bids which comply with the Bidding Document. Alternative bids will not be considered. The attention of bidders is drawn to the provisions of Clause on **“Determination of Responsiveness of Bid”** regarding the rejection of Bids, which are not substantially responsive to the requirements of the Bidding Document.

The Primary Contact & Secondary Contact for all correspondence in relation to this bid is as follows:

Primary Contact

Deputy Director (IT),
Punjab Forensic Science Agency
Lahore

Secondary Contact

Procurement Section
Punjab Forensic Science Agency
Lahore

Bidders should note that during the period from the receipt of the bid and until further notice from the Primary Contact, all queries should be communicated via the Primary Contact and in writing (e-mail) only. In the case of an urgent situation where the Primary Contact cannot be contacted, the bidder may alternatively direct their enquiries through the Secondary Contact.

Bidders are also required to state, in their proposals, the name, title, fax number and e-mail address of the bidder’s authorized representative through whom all communications shall be directed until the process has been completed or terminated.

The Purchaser will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids. As authority competent to accept the tender, the Purchaser reserves the right to cancel the tender, accept or reject one or all bids without assigning any reason thereof.

TERMS AND CONDITIONS OF THE TENDER

Definitions

- 3.1 In this document, unless there is anything repugnant in the subject or context:
- 3.2 "Authorized Representative" means any representative appointed, from time to time, by the Client, the Purchaser or the Contractor.
- 3.3 "Availability and Reliability" means the probability that a component shall be operationally ready to perform its function when called upon at any point in time.
- 3.4 "Client" means the Project lead of technical wing of the Purchaser for whose' particular project the Goods / Services have been procured or any other person, duly appointed in writing, by the Client, for the time being or from time to time, to act as Client for the purposes of the Contract.
- 3.5 "Bidder/Tenderer" means the Firm/Company/Supplier/Distributers that may provide or provides the same hardware/equipment, etc. and related services to any of the public sector organization under the contract and have registered for the relevant business thereof.
- 3.6 "Commencement Date of the Contract" means the date of signing of the Contract between the Purchaser and the Contractor.
- 3.7 "Contract" means the agreement entered into between the Purchaser and the Contractor, as recorded in the Contract Form signed by the parties, including all Schedules and Attachments thereto and all documents incorporated by reference therein.
- 3.8 "Contractor" means the person whose Tender has been accepted and awarded letter of Intent followed by the Contract by the Purchaser.
- 3.9 "Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations.
- 3.10 "Contract Value" means that portion of the Contract Price adjusted to give effect to such additions or deductions as are provided for in the Contract which is properly apportion-able to the Goods or Services in question.
- 3.11 "Defects Liability Expiry Certificate" means the certificate to be issued by the Client to the Contractor, in accordance with the Contract.
- 3.12 "Day" means calendar day.
- 3.13 "Defects Liability Period" means the warranty period following the taking over, during which the Contractor is responsible for making good, defects and damage in Goods and Services provided, under the Contract.
- 3.14 "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars, revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 3.15 "Goods" means equipment, machinery, and/or other materials which the Contractor is required to supply to the Purchaser under the Contract.
- 3.16 "Person" includes individual, association of persons, firm, company, corporation, institution and organization, etc., having legal capacity.
- 3.17 "Prescribed" means prescribed in the Tender Document.
- 3.18 "Purchaser" means the Punjab Forensic Science Agency (PFSA), or any other person for the time being or from time to time duly appointed in writing by the Purchaser to act as Purchaser for the purposes of the Contract.
- 3.19 "Origin" shall be considered to be the place where the Goods are produced or from where the Services are provided. Goods are produced when, through manufacturing, processing or assembling of components, a commercially recognized product results that is substantially

different in basic characteristics or in purpose or utility from its components. The origin of Goods and Services is distinct from the nationality of the Contractor.

- 3.20 "Services" means installation, configuration, deployment, commissioning, testing, training, support, after sale service, etc. of Goods and other such obligations which the Contractor is required to provide to the Purchaser under the Contract.
- 3.21 "Taking-Over Certificate" means the certificate to be issued by the Client to the Contractor, in accordance with the Contract.
- 3.22 "Works" means work to be done by the Contractor under the Contract.

Headings and Titles

In this document, headings and titles shall not be construed to be part thereof or be taken into consideration in the interpretation of the document and words importing the singular only shall also include the plural and vice versa where the context so requires.

Notice

- 5.1 In this document, unless otherwise specified, wherever provision is made for exchanging notice, certificate, order, consent, approval or instructions amongst the Contractor, the Purchaser and the Client, the same shall be:
 - 5.1.1 in writing;
 - 5.1.2 issued within reasonable time;
 - 5.1.3 served by sending the same by courier or registered post to their principal office in Pakistan or such other address as they shall notify for the purpose; and
 - 5.1.4 The words "notify", "certify", "order", "consent", "approve", "instruct", shall be construed accordingly.

Tender Scope

- 6.1 Punjab Forensic Science Agency (PFSA), (hereinafter referred to as "the Purchaser") invites / requests Proposals (hereinafter referred to as "the Tenders") for **Purchase of Office & Security Equipment for Training Lab** (herein after referred to as "the Goods")
- 6.2 Purchaser have full rights to Quantity may increase or decrease at the time of issuance of Purchase Order

Tender Eligibility

- 7.1 Eligible Tenderer is a Tenderer who:
 - 7.1.1 has a registered office in Pakistan;
 - 7.1.2 has required relevant experience
 - 7.1.3 is manufacture of Goods / provider of Services or authorized dealer / agent of original manufacturer of Goods / provider of Services.
 - 7.1.4 Conforms to the clause of "Responsiveness of Bid" given herein this tender document.
 - 7.1.7 Goods and Services can only be supplied / sources / routed from "origin" in "eligible" member countries.
 - a. Eligible" is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.
 - b. "origin" shall be considered to be the place where the Goods are produced or from which the Services are provided. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

Tender Cost

The Tenderer shall bear all costs / expenses associated with the preparation and submission of the Tender(s) and the Purchaser shall in no case be responsible / liable for those costs / expenses.

Joint Venture / Consortium:

Joint venture or partnership firms are **ALLOWED / eligible (Maximum of TWO Companies)** for this tender. Only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate.

Bids submitted by a consortium of two companies or partners (maximum) shall comply with the following requirements:

- I. Consortium/Local partner shall have credibility and shall provide references in financial strengths.
- II. The Bid, and in case of successful Bid, the Contract form, shall be signed by all so as to be legally binding on all the partners.
- III. One of the partners shall be authorized to be lead partner; and this authority shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners.
- IV. The partner Lead Partner shall be authorized to incur liabilities, receive payments and receive instructions for and on behalf of any or all partners of the consortium.
- V. A copy of the agreement entered into by the consortium partners shall be submitted with the Bid

Examination of the Tender Document

The Tenderer is expected to examine the Tender Document, including all instructions and terms and conditions.

Clarification of the Tender Document

The prospective bidders may solicit clarification of the Tender Document, within 05 working days of issuance of tender in writing. The clarification and its replies will be shared with all prospective bidders.

Amendment of the Tender Document

- 12.1 The Purchaser may, at any time prior to the deadline for submission of the Tender, at its own initiative or in response to a clarification requested by the Bidder, amend the Tender Document, on any account, for any reason. All amendment(s) shall be part of the Tender Document and binding on the Bidder.
- 12.2 The Purchaser shall notify the amendment(s) in writing to the prospective Tenderers.
- 12.3 The Purchaser may, at its exclusive discretion, amend the Tender Document to extend the deadline for the submission of the Tender, in which case all rights and obligations of the Purchaser and the Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

Preparation / Submission of Tender

- 13.1 The Tender and all documents relating to the Tender, exchanged between the Tenderer and the Purchaser, shall be in English. Any printed literature furnished by the Tenderer in another language shall be accompanied by an English translation which shall govern for purposes of interpretation of the Tender.
- 13.2 The Tender shall be filed in / accompanied by the prescribed Forms, Annexes, Schedules, Charts, Drawings, Documents, Brochures, Literature, etc. which shall be typed, completely filled in, stamped and signed by the Tenderer or his Authorized Representative. In case of copies,

- photocopies may be submitted.
- 13.3 The Tender shall be in two parts i.e. the technical proposal and the financial proposal. Each proposal shall be in two sets i.e. the original and the copy. In the event of any discrepancy between the original and the duplicate, the original shall govern.
- 13.4 The Technical Proposal shall comprise the following, **without quoting the price:**
- 13.5 Technical Proposal Form (Annexure-A)
- 13.5.1 Affidavit and Undertaking (All terms & conditions and qualifications listed anywhere in the RFP have been satisfactorily vetted) (Annexure-F&G)
- 13.5.2 Covering letter duly signed and stamped by authorized representative. (Annexure-E)
- 13.5.3 Authorized Certificate / document from the principle / manufacturer.
- 13.5.4 Evidence of eligibility of the Tenderer and the Goods
- 13.5.5 Evidence of conformity of the Goods / the Services to the Tender Document
- 13.5.6 Undertaking and Evidence that the quoted Goods are genuine, brand new, non- refurbished, unaltered in any way, of the most recent / current model, imported through proper channel, and incorporate all recent improvements in design and materials
- 13.5.7 Technical Brochures / Literature
- 13.5.8 Details of Warranty and After-Sale Service
- 13.5.9 The Contractor's financial capacity to mobilize and sustain the Supply of Furniture. In the Proposal, the Bidder is required to provide information on its financial status. This requirement can be met by submission of one of the following:
- (1) audited financial statements for the last One (01) year, supported by audit letters,
- (2) certified financial statements for the last One (01) year, supported by tax returns duly signed and stamped by authorized representative.
- 13.5.10 The statement must be signed by the authorized representative of the Bidder
- 13.5.11 Valid Registration Certificate for Income Tax & Sales Tax
- 13.5.12 Income Tax & Sales Tax Returns for the last One tax year
- 13.5.13 Power of Attorney, if an authorized representative is appointed
- 13.6 The Financial Proposal shall comprise the following:**
- 13.6.1 Financial Proposal Form (Annexure-B)
- 13.6.2 Price Schedule (Annexure-C)
- 13.6.3 Tender Security (equivalent PKR **02% of the estimated price in shape of CDR**)
- 13.7 The Tenderer shall seal the Original Technical Proposal in an envelope duly marked as under:
- Original Technical Tender for
Tender Name. [Number of Tender]
[Name of the Purchaser]
[Address of the Purchaser]
[Name of the Tenderer]
[Address of the Tenderer]
[Phone No. of the Tenderer]
- 13.8 The Tenderer shall seal the Duplicate Technical Tender in an envelope duly marked as under:
Duplicate Technical Proposal for

Tender Name. [Name of Tender]
[Name of the Purchaser]
[Address of the Purchaser]
[Name of the Tenderer]
[Address of the Tenderer]
[Phone No. of the Tenderer]

13.9 The Tenderer shall follow the same process for the Financial Tender.

13.10 The Tenderer shall again seal the sealed envelopes of Original Technical Proposal and the Original Financial Proposal in an outer envelope, duly marking the envelope as under:

Original Tender for
Tender Name. [Name of Tender]
Strictly Confidential
Open on [Last Date of submission of the Tender]
[Name of the Purchaser]
[Address of the Purchaser]
[Name of the Tenderer]
[Address of the Tenderer]
[Phone No. of the Tenderer]

13.11 The Tenderer shall again seal the sealed envelopes of Duplicate Technical Proposal and the Duplicate Financial Proposal in an outer envelope, duly marking the envelope as under:

Duplicate Tender for
Tender Name. [Name of Tender]
Strictly Confidential
Open on [Last Date of submission of the Tender]
[Name of the Purchaser]
[Address of the Purchaser]
[Name of the Tenderer]
[Address of the Tenderer]
[Phone No. of the Tenderer]

13.12 The Tenderer shall enclose soft copies of the Technical Proposal and the Financial Proposals, including all Forms, Annexes, Schedules, Charts, Drawings, Documents, Brochures, Literature, etc., in the form of MS Word Documents, MS Excel Worksheets and Scanned images, with the hard copies.

13.13 The Tender shall be mailed to reach and dropped in the Tender Box placed at the Reception of the Purchaser's office, during office hours, up to due date and time.

13.14 This is made obligatory to affix authorized signatures with official seal on all original and duplicate (copies) documents, annexure, copies, certificates, brochures, literature, drawings, letters, forms and all relevant documents as part of the bids submitted by the tenderer. Noncompliance with the same will cause the rejection of bid at the time of opening.

Tender Price

- 14.1 The quoted price shall be:
 - 14.1.1 best / final / fixed and valid until completion of all obligations under the Contract i.e. not subject to variation / escalation;
 - 14.1.2 on delivery at PFSA Site based including all charges;
 - 14.1.3 in Pak Rupees
 - 14.1.4 on delivery at PFSA Site
- 14.2 If not specifically mentioned in the Tender(s), it shall be presumed that the quoted price is as per the above requirements.
- 14.3 Where no prices are entered against any item(s), the price of that item shall be deemed to have been distributed among the prices of other items, and no separate payment shall be made for that item(s).
- 14.4 Each cost should be identified as installation (one time) or monthly/quarterly/yearly (recurring) for any other equipment rental or any support of operation services thereof.
- 14.5 In case of Contract of imported Equipment/Services offered Ex-Warehouse/Off-the-Shelf from within the Purchaser's country, import duties and sales and other taxes already paid shall be shown separately.

Tender Security

- 15.1 The Tenderer shall furnish the Tender Security as under:
- 15.2 As part of financial bid envelope, failing which will cause rejection of bid.
 - 15.2.1 for a sum equivalent to equivalent PKR 2% of the estimated Price;
 - 15.2.2 CDR denominated in Pak Rupees;
 - 15.2.3 have a minimum validity period of ninety days from the last date for submission of the Tender or until furnishing of the Performance Security, whichever is later.
- 15.3 The proceeds of the Tender Security shall be payable to the Purchaser, on the occurrence of any / all of the following conditions:
 - 15.3.1 If the Tenderer withdraws the Tender during the period of the Tender validity specified by the Tenderer on the Tender Form; or
 - 15.3.2 If the Tenderer does not accept the corrections of his Total Tender Price; or
 - 15.3.3 If the Tenderer, having been notified of the acceptance of the Tender by the Purchaser during the period of the Tender validity, fails or refuses to furnish the Performance Security, in accordance with the Tender Document.
- 15.4 The Tender security shall be returned to the technically unsuccessful Tenderer with unopened/sealed financial bid while the unsuccessful bidders of financial bid opening procedure will be returned the tender security only. The Tender Security shall be returned to the successful Tenderer on furnishing the Performance Security.

Tender Validity

The Tender shall have a minimum validity period of ninety days from the last date for submission of the Tender. The Purchaser may solicit the Tenderer's consent to an extension of the validity period of the Tender. The request and the response thereto shall be made in writing. If the Tenderer agrees to extension of validity period of the Tender, the validity period of the Tender security shall also be suitably extended. The Tenderer may refuse extension of validity period of the Tender, without forfeiting the Tender security.

Modification / Withdrawal of the Tender

- 17.1 The Tenderer may, by written notice served on the Purchaser, modify or withdraw the Tender after submission of the Tender, prior to the deadline for submission of the Tender.
- 17.2 The Tender, withdrawn after the deadline for submission of the Tender and prior to the expiration of the period of the Tender validity, shall result in forfeiture of the Tender Security.

Opening of the Tender

- 18.1 Tenders shall be opened, at the given place, time and date, in the presence of the Tenderer(s) for which they shall ensure their presence without further invitation.
- 18.2 The Tenderer's name, modifications, withdrawal, security, attendance of the Tenderer and such other details as the Purchaser may, at its exclusive discretion, consider appropriate, shall be announced and recorded.
- 18.3 No tenderer or its representative will be allowed to keep any digital device (camera, audio recorder, cell phone etc.) during tender opening meeting at given time and location. Non-compliance will cause the rejection of respective bidder.

Clarification of the Tender

The Purchaser shall have the right, at his exclusive discretion, to require, in writing, further information or clarification of the Tender, from any or all the Tenderer(s). No change in the price or substance of the Tender shall be sought, offered or permitted except as required to confirm the corrections of arithmetical errors discovered in the Tender. Acceptance of any such correction is sold discretion of the purchaser

Determination of Responsiveness of the Bid (Tender)

- 20.1 The Purchaser shall determine the substantial responsiveness of the Tender to the Tender Document, prior to the Tender evaluation, on the basis of the contents of the Tender itself without recourse to extrinsic evidence. A substantially responsive Tender is one which:
 - 20.1.1 meets the eligibility criteria for the Tenderer / the Goods / the Services;
 - 20.1.2 meets the Technical Specifications for the Goods / the Services;
 - 20.1.3 meets the delivery period / point for the Goods / the Services;
 - 20.1.4 offers fixed price quotations for the Goods / the Services;
 - 20.1.5 is accompanied by the required Tender Security as part of financial bid envelope;
 - 20.1.6 The original document /receipt of tender fee submitted, attached with technical bid envelope;
 - 20.1.7 is otherwise complete and generally in order;
 - 20.1.8 Conforms to all terms and conditions of the Tender Document, without material deviation or reservation.
- 20.2 A material deviation or reservation is one which affects the scope, quality or performance of the Goods or limits the Purchaser's rights or the Tenderer's obligations under the Contract.
- 20.3 The Tender determined as not substantially responsive shall not subsequently be made responsive by the Tenderer by correction or withdrawal of the material deviation or reservation. However, the Purchaser may waive off any minor non-conformity or inconsistency or informality or irregularity in the Tender.

20.4 PARAMETERS OF TECHNICAL EVALUATION CRITERIA

The Firm/Company securing less than 70% marks will be disqualified

-Total Marks: **100**

=**Qualification Marks 70 (70%) + Mandatory**

Category	Description	Points		Compliance/ Points
Legal (Mandatory)	Income Tax & General Sales Tax Registration	Mandatory		
	Undertaking that the firm is not blacklisted and involved in litigation with Government	Mandatory		
	Certificate of Authorized Service provider / tier one / Partner certificate (IP Exchange/IP Phones, Telepresence)	Mandatory		
	Manufacturer Authorization letter for this tender (IP exchange/IP Phones)	Mandatory		
	Vender must be ISO Certified (IT related) (IP Exchange, Telepresence & Audio System)	Mandatory		
	Minimum 05 deployment for the related equipment for last 05 years (PO required) (IP Exchange, Telepresence)	Mandatory		
Technical (Mandatory)	Conformance to the Technical Compliance Sheet	Mandatory		
Financial strength	Financial Audit Report / Bank statements / Client's Work Orders/ any supporting document (Max Points 30) (last 01-year)	20 – 25 million	20 Points	
		25 – 30 million	25 Points	
		30+ million	30 Points	
Satisfied Customers	Total No. of Satisfied Customers (list & Satisfaction letter of Customers required) (Max Points 25)	10 - 15	15 Points	
		16 - 20	20 Points	
		20+	25 Points	
Technical Staff	List of Technically Qualified Staff Mention Qualification and Experience Max (20 Points)	7 - 10	10 Points	
		10+	20 Points	
Company Status	Manufacturer	(Max 15 Points)	15 Points	
	Distributor		05 Points	
Office Location	Office in Lahore	Max (10 Points)	10 Points	

Correction of errors / Amendment of Tender

- 21.1 The Tender shall be checked for any arithmetic errors which shall be rectified, as follows:
 - 21.1.1 If there is a discrepancy between the amount in figures and the amount in words for the Total Tender Price entered in the Tender Form, the amount which tallies with the Total Tender Price entered in the Price Schedule, shall govern.
 - 21.1.2 if there is a discrepancy between the unit rate and the total price entered in the price Schedule, resulting from incorrect multiplication of the unit rate by the quantity, the unit rate as quoted shall govern and the total price shall be corrected, unless there is an obvious and gross misplacement of the decimal point in the unit rate, in which case the total price as quoted shall govern and the unit rate shall be corrected.
 - 21.1.3 if there is a discrepancy in the actual sum of the itemized total prices and the total tender price quoted in the Price Schedule, the actual sum of the itemized total prices shall govern.
- 21.2 The Tender price as determined after arithmetic corrections shall be termed as the Corrected Total Tender Price which shall be binding upon the Tenderer.
- 21.3 Adjustment shall be based on corrected Tender Prices. The price determined after making such adjustments shall be termed as Evaluated Total Tender Price.
- 21.4 The cost of making good any deficiency resulting from any acceptable, quantifiable variations and deviations from the terms and conditions of the Contract / Technical Specifications, shall be added to the corrected Tender Price for comparison purposes only. No credit shall be given for offering delivery period earlier than the specified period.
- 21.5 The Tenderer shall state the Tender Price for the payment terms outlined in the Conditions of Contract which will be considered for the evaluation of the Tender. The Tenderer may state alternate payment terms and indicate the reduction in the Tender price offered for such alternative payment terms. The Purchaser may consider the alternative payment terms offered by the Tenderer.
- 21.6 The Tenderers may offer discounts for items which shall be taken into account in the evaluation of the Tenders so as to determine the Tender offering the lowest evaluated cost for the Purchaser in deciding award(s) for whole tender.

Rejection / Acceptance of the Tender

- 22.1 The Purchaser shall have the right, at his exclusive discretion, to increase / decrease the quantity of any or all item(s) without any change in unit prices or other terms and conditions,
- 22.2 Accept a Tender reject any or all tender(s), cancel / annul the Tendering process at any time prior to award of Contract, without assigning any reason or any obligation to inform the Tenderer of the grounds for the Purchaser's action, and without thereby incurring any liability to the Tenderer and the decision of the Purchaser shall be final.
- 22.3 The Tender shall be rejected if it is:
 - 22.3.1 substantially non-responsive; or
 - 22.3.2 submitted in other than prescribed forms, annexes, schedules, charts, drawings, documents / by other than specified mode; or
 - 22.3.3 incomplete, un-sealed, un-signed, printed (hand written), partial, conditional, alternative, late; or
 - 22.3.4 subjected to interlineations / cuttings / corrections / erasures / overwriting; or
 - 22.3.5 the Tenderer refuses to accept the corrected Total Tender Price; or
 - 22.3.6 the Tenderer has conflict of interest with the Purchaser; or
 - 22.3.7 the Tenderer tries to influence the Tender evaluation / Contract award; or

- 22.3.8 the Tenderer engages in corrupt or fraudulent practices in competing for the Contract award.
- 22.4 there is any discrepancy between bidding documents and bidder's proposal i.e. any non-conformity or inconsistency or informality or irregularity in the submitted bid.
- 22.5 the Tenderer submits any financial conditions as part of its bid which are not in conformity with tender document.
- 22.6 Purchaser have full rights to increase/decrease Quantity at the time of issue of Purchase Order

Acceptance Letter (Letter of Intent)

The Purchaser shall, send the Acceptance Letter (Letter of Intent) to the successful Tenderer, prior to the expiry of the validity period of the Tender, which shall constitute a contract, until execution of the formal Contract.

Performance Security

- 24.1 The successful Tenderer shall furnish Performance Security as under:
 - 24.1.1 within Fifteen (15) working days of the receipt of the Acceptance Letter from the Purchaser;
 - 24.1.2 in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document or in another form acceptable to the Purchaser;
 - 24.1.3 for a sum equivalent to 10% of the contract value;
 - 24.1.4 denominated in equivalent Pak Rupees;
 - 24.1.5 have a minimum validity period of ninety days from the date of Award Notification or until the date of expiry of warranty period, support period or termination of services, whichever is later.
- 24.2 The proceeds of the Performance Security shall be payable to the Purchaser, on occurrence of any / all of the following conditions:
 - 24.2.1 If the Contractor commits a default under the Contract;
 - 24.2.2 If the Contractor fails to fulfill any of the obligations under the Contract;
 - 24.2.3 If the Contractor violates any of the terms and conditions of the Contract.
- 24.3 The Contractor shall cause the validity period of the performance security to be extended for such period(s) as the contract performance may be extended. The Performance Security shall be returned to the Tenderer within thirty working days after the expiry of its validity on written request from the Contractor.

TERMS & CONDITIONS OF THE CONTRACT

Contract Title:

**PURCHASE OF OFFICE & SECURITY EQUIPMENT
FOR TRAINING LAB**

Contract for the

Between

Punjab Forensic Science Agency (PFSA)

And

[Name of Contractor]

Dated:

Agreement

This CONTRACT AGREEMENT (this “Contract”) made as of the [day] of [month], [year], between [full legal name of the Purchaser] (the “Purchaser”), on the one part,

and

[full legal name of Contractor], on the other part severally liable to the Purchaser for all of the Contractor’s obligations under this Contract and is deemed to be included in any reference to the term “Contractor.”

RECITALS

WHEREAS,

- (a) The Government through the Purchaser intends to spend a part of its budget / funds for making eligible payments under this contract. Payments made under this contract will be subject, in all respects, to the terms and conditions of the Contract in lieu of the consulting services as described in the contract.
- (b) The Purchaser has requested the Contractor to provide certain supply of Goods/items as described in Tender Document; and
- (c) The Contractor, having represented to the Purchaser that it has the required professional skills, and personnel and technical resources, has agreed to provide such services on the terms and conditions set forth in this Contract.

NOW THEREFORE, the Parties to this Contract agree as follows:

- 1. The Contractor hereby covenants with the Purchaser to supply the Goods and provide the Services and to remedy defects / damage therein, at the time and in the manner, in conformity in all respects with the provisions of the Contract, in consideration of the payments to be made by the Purchaser to the Contractor.
- 2. The Purchaser hereby covenants with the Contractor to pay the Contractor, the Contract Price or such other sum as may become payable, at the times and in the manner, in conformity in all respects with the provisions of the Contract, in consideration of supply of the Goods and provision of the Services and remedying of defects / damage therein.
- 3. The following shall be deemed to form and be read and construct as part of this Contract:
 - a. The Tender Document
 - b. Bidder’s Proposal
 - c. Terms and Conditions of the Contract
 - d. Special Stipulations
 - e. The Technical Specifications
 - f. Tender Form

- g. Price Schedule
- h. Affidavit(s)
- i. Authorized Dealership / Agency Certificate
- j. Performance Security
- k. Non-Disclosure Agreement (if required)
- l. Any Standard Clause acceptable for Purchaser

4. This Contract shall prevail over all other documents. In the event of any discrepancy / inconsistency within the Contract, the above Documents shall prevail in the order listed above.\

IN WITNESS whereof the Parties hereto have caused this Contract to be executed in accordance with the laws of **Pakistan** as of the day, month and year first indicated above.

For **[full legal name of the Purchaser]:**

For **[full legal name of the Contractor]:**

Signature

Signature

Name

Name

Witnessed By:

Witnessed By:

WITNESSES

Signature _____
 CNIC # _____
 Name _____
 Designation _____
 Address _____

Signature _____
 CNIC # _____
 Name _____
 Designation _____
 Address _____

General Conditions of Contract

Contract Documents and Information

The Contractor shall not, without the Purchaser's prior written consent, make use of the Contract, or any provision thereof, or any document(s), specifications, drawing(s), pattern(s), sample(s) or information furnished by or on behalf of the Purchaser in connection therewith, except for purposes of performing the Contract or disclose the same to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

Contract Language

The Contract and all documents relating to the Contract, exchanged between the Contractor and the Purchaser, shall be in English. The Contractor shall bear all costs of translation to English and all risks of the accuracy of such translation.

Standards

The Goods supplied and the Services provided under this Contract shall conform to the authoritative latest industry standards.

Commercial Availability

The Goods supplied under this Contract shall be commercially available at the time of signing of the contract. Commercial availability means that such Goods shall have been sold, installed and operational in more than two installations initiated under two separate contracts by manufacturer globally.

Patent Right

The Contractor shall indemnify and hold the Purchaser harmless against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods / the Service or any part thereof.

Execution Schedule

The Contractor shall submit an Execution Schedule, giving details of customs clearance, supply, installation, configuration, deployment, commissioning, testing, training, etc., as required under the Contract, to the Client, within three days of the signing of the Contract.

Packing

The Contractor shall provide such packing of the Goods as is sufficient to prevent their damage or deterioration during storage / transit to their final destination as indicated in the Contract. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination and withstand, without limitation, rough handling, exposure to extreme temperatures, salt and precipitation at all points in storage / transit. The Contractor shall arrange and pay for the packing of the Goods to the place of destination as specified in the Contract, and the cost thereof shall be included in the Contract Price.

Insurance

The Contractor shall provide such insurance of the Goods as is sufficient to protect against their damage or deterioration during storage / transit to their final destination as indicated in the Contract. The Contractor shall arrange and pay for the insurance of the Goods to the place of destination as specified in the Contract, and the cost thereof shall be included in the Contract Price.

Labeling

The Goods supplied under the Contract, shall be clearly labeled so as to correspond with the delivered documentation, with proper labeling scheme provided by the Client.

Delivery

- The Service shall remain at the risk and under the physical custody of the Contractor until the delivery and testing of the Goods is completed.
- The Contractor shall ensure that the Goods shall be delivered complete to enable the testing and training to proceed without interruption. If it shall appear to the Client that the Goods have been or are likely to be delayed by reason of incomplete delivery or for any other reasons, he may require the Contractor at the expense of the Contractor to dispatch the missing items of the Goods or suitable replacements thereof to the site of delivery by the fastest available means including air freight.
- The Contractor shall include in the Tender a detailed logistics plan which shall include support details for transportation, mobilization and personnel scheduling during project implementation and the warranty period. The Contractor shall provide maintenance, supply and procurement support necessary for Client to maintain all system, at the contracted performance and reliability level. The Contractor shall arrange and pay for the transport of the Goods to the place of destination as specified in the Contract, and the cost thereof shall be included in the Contract Price.

Safety

- The Contractor shall be responsible for the embedding of safety features in the inherent design of the equipment, for elimination of identified hazards, including but not limited to high voltage, electromagnetic radiation, sharp points and edges, etc., and reduction of associated risk to personnel and equipment.
- The Contractor shall be responsible for the addition of bilingual warnings and caution notices, where hazards cannot be eliminated or risks cannot be reduced.
- The Contractor shall be responsible for the protection of the power sources, controls, and critical components of the redundant systems and subsystems by shielding or physical separation when possible.

Inspection and Testing

- The Client shall inspect and test the Goods supplied, the Services provided or the Works carried out, under the Contract, to verify their conformity to the Technical Specifications.
- The inspections and tests shall be conducted at the premises of the Contractor / its subcontractor(s) / at the final destination. Where conducted at the premises of the Contractor / its subcontractor(s), the Contractor / its subcontractor(s) shall provide all-reasonable facilities and assistance, including access to drawings, production data and online verification from official web site of the Manufacture, to the inspectors, at no charge to the Purchaser.
- The Purchaser may reject the Goods, the Services or the Works if they fail to conform to the Technical Specifications, in any test(s) or inspection(s) and the Contractor shall either replace the rejected Goods, Services or Works or make all alterations necessary to meet the Technical Specifications, within three working days, free of cost to the Purchaser.
- The Purchaser's post-delivery right to inspect, test and, where necessary, reject the Goods shall in no way be limited or waived by reason of pre-delivery inspection, testing or passing of the Goods.

Taking-Over Certificate

- The Contractor shall, by written notice served on the Client with a copy to the Purchaser, apply for a Taking-Over Certificate.
- The Client shall, within seven days of receipt of Contractor's application, either issue the Taking-Over Certificate to the Contractor with a copy to the Purchaser, stating the date of successful inspection / testing of the Goods or any portion thereof, for their intended purposes; or reject the application giving the reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued.

Warranty

- The Contractor shall warrant to the Purchaser that the Goods/Services supplied by the Contractor, under the Contract are genuine, brand new, non- refurbished, un-altered in any way, of the most recent

or current model, imported through proper channel, and incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

- The Contractor shall further warrant that the Goods/Services supplied by the Contractor, under the Contract shall have no defect, arising from design, materials, workmanship or from any act or omission of the Contractor that may develop under normal use of the supplied Goods/Services.
- The Contractor shall provide Manufacturer’s warranty (if applicable) (hereinafter referred as Warranty Period), after the issue of Taking-over Certificate in respect of Goods, the Services and the Works, or any portion

Ownership of Goods and Replaced Components

Goods to be supplied to the Purchaser, pursuant to the Contract, shall become the property of the Purchaser when the Goods are taken over by the Purchaser. Defective components to be replaced by the Contractor, pursuant to the Contract, shall become the property of the Contractor as and where it lies.

Payment

- **PAYMENT SCHEDULE:**

Sr. #	DESCRIPTION	PAYMENT
1	On Delivery of All Ordered Items at PFSA and Inspection / Completion report Sign-Off by the relevant section	100% of total cost

- The Contractor shall submit an Application for Payment, in the prescribed form, to the Client. The Application for Payment shall: be accompanied by such invoices, receipts or other documentary evidence as the Client may require; state the amount claimed; and set forth in detail, in the order of the Price Schedule, particulars of the Goods supplied, the Services provided and the Works done, up to the date of the Application for Payment and subsequent to the period covered by the last preceding Certificate of Payment, if any

Price

The Contractor shall not charge prices for the Goods supplied, the Services provided and for other obligations discharged, under the Contract, varying from the prices quoted by the Contractor in the Price Schedule.

Stamp Papers for the contract Signing

As per Section 22(A)(b) of Schedule –I, Stamp Act 1899 read with Finance Act 1995(Act-IV of 1995) Government of the Punjab, The Contractor shall provide ‘stamp papers/Stamp Duty’ worth of 0.25% of the total contract/Purchase Order Value for the signing of Contract to the PFSA.

Contract Amendment

- The Purchaser may, at any time, by written notice served on the Contractor, alter, amend, omit, increase, decrease or otherwise change the nature, quality, quantity and scope, of all / any of the Goods / the Services / the Works, in whole or in part.
- The Contractor shall, within ten working days of receipt of such notice, submit a cost estimate and execution schedule of the proposed change (hereinafter referred to as the Change), to the Purchaser.
- The Contractor shall not execute the Change until and unless the Purchaser has allowed the said Change, by written order served on the Contractor with a copy to the Client.
- The Change, mutually agreed upon, shall constitute part of the obligations under this Contract, and the provisions of the Contract shall apply to the said Change.
- No variation in or modification in the Contract shall be made, except by written amendment signed

by both the Purchaser and the Contractor.

Assignment / Subcontract

- The Contractor shall not assign or sub-contract its obligations under the Contract, in whole or in part, except with the Purchaser's prior written consent.
- The Contractor shall guarantee that any and all assignees / subcontractors of the Contractor shall, for performance of any part / whole of the work under the contract, comply fully with the terms and conditions of the Contract applicable to such part / whole of the work under the contract.

Extensions in time for performance of obligations under the Contract

If the Contractor encounters conditions impeding timely performance of any of the obligations, under the Contract, at any time, the Contractor shall, by written notice served on the Purchaser with a copy to the Client, promptly indicate the facts of the delay, its likely duration and its cause(s). As soon as practicable after receipt of such notice, the Purchaser shall evaluate the situation and may, at its exclusive discretion, without prejudice to any other remedy it may have, by written order served on the Contractor with a copy to the Client, extend the Contractor's time for performance of its obligations under the Contract.

Liquidated Damages

If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, without prejudice to any other right of action / remedy it may have, deduct from the Contract Price, as liquidated damages, a sum of money @0.25% of the Contract Price which is attributable to such part of the Goods / the Services / the Works as cannot, in consequence of the failure / delay, be put to the intended use, for every day between the scheduled delivery date(s), with any extension of time thereof granted by the Purchaser, and the actual delivery date(s). Provided that the amount so deducted shall not exceed, in the aggregate, 10% of the Contract Price.

Blacklisting

- If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, at any time, without prejudice to any other right of action / remedy it may have, blacklist the Contractor, either indefinitely or for a stated period, for future tenders in public sector.
- If the Contractor is found to have engaged in corrupt or fraudulent practices in competing for the award of contract or during the execution of the contract, the Purchaser may, at any time, without prejudice to any other right of action / remedy it may have, blacklist the Contractor, either indefinitely or for a stated period, for future tenders in public sector.

Termination for Default

- If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, at any time, without prejudice to any other right of action / remedy it may have, by written notice served on the Contractor with a copy to the Client, indicate the nature of the default(s) and terminate the Contract, in whole or in part, without any compensation to the Contractor. Provided that the termination of the Contract shall be resorted to only if the Contractor does not cure its failure / delay, within fifteen working days (or such longer period as the Client may allow in writing), after receipt of such notice.
- If the Purchaser terminates the Contract for default, in whole or in part, the Purchaser may procure, upon such terms and conditions and in such manner as it deems appropriate, Goods / Services / Works, similar to those undelivered, and the Contractor shall be liable to the Purchaser for any excess costs for such similar Goods / Services / Works. However, the Contractor shall continue performance of the Contract to the extent not terminated.

Termination for Insolvency

If the Contractor becomes bankrupt or otherwise insolvent, the Purchaser may, at any time, without prejudice to any other right of action / remedy it may have, by written notice served on the Contractor with a copy to the Client, indicate the nature of the insolvency and terminate the Contract, in whole or in part, without any compensation to the Contractor.

Termination for Convenience

- The Purchaser may, at any time, by written notice served on the Contractor with a copy to the Client, terminate the Contract, in whole or in part, for its convenience, without any compensation to the Contractor.
- The Goods and the Services which are complete or to be completed by the Contractor, within thirty working days after the receipt of such notice, shall be accepted by the Purchaser. For the remaining Goods, the Purchaser may elect:
 - to have any portion thereof completed and delivered; and/or
 - to cancel the remainder and pay to the Contractor an agreed amount for partially completed Goods, Services, Works and materials / parts previously procured by the Contractor for the purpose of the Contract, together with a reasonable allowance for overhead & profit.

Force Majeure

- The Contractor shall not be liable for liquidated damages, blacklisting for future tenders, termination for default, if and to the extent his failure / delay in performance / discharge of obligations under the Contract is the result of an event of Force Majeure.
- If a Force Majeure situation arises, the Contractor shall, by written notice served on the Purchaser with a copy to the Client, indicate such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Contractor shall continue to perform under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Dispute Resolution

The Purchaser and the Contractor shall make every effort to amicably resolve, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the Contract.

- If, after thirty working days, from the commencement of such informal negotiations, the Purchaser and the Contractor have been unable to amicably resolve a Contract dispute, either party may, require that the dispute be referred for resolution by arbitration under the Pakistan Arbitration Act, 1940, as amended, by one or more arbitrators selected in accordance with said Law. The place for arbitration shall be Lahore, Pakistan. The award shall be final and binding on the parties.

Statutes and Regulations

- The Contract shall be governed by and interpreted in accordance with the laws of Pakistan.
- The Contractor shall, in all matters arising in the performance of the Contract, conform, in all respects, with the provisions of all Central, Provincial and Local Laws, Statutes, Regulations and By-Laws in force in Pakistan, and shall give all notices and pay all fees required to be given or paid and shall keep the Purchaser indemnified against all penalties and liability of any kind for breach of any of the same.
- The Courts at Lahore shall have the exclusive territorial jurisdiction in respect of any dispute or difference of any kind arising out of or in connection with the Contract.

Contract Cost

The Contractor shall bear all costs / expenses associated with the preparation of the Contract and the Purchaser shall in no case be responsible / liable for those costs / expenses.

The Client

- The Client shall only carry out such duties and exercise such authority as specified in the Contract. The Client shall have no authority to relieve the Contractor of any of his obligations under the Contract, except as expressly stated in the Contract.
- The Contractor shall proceed with the decisions, instructions or approvals given by the Client in accordance with these Conditions.
- The Client shall conform with all the relevant clauses of this Tender Document to carry out all responsibilities assigned thereto in a timely manner.

Authorized Representative

- The Purchaser, the Client or the Contractor may, at their exclusive discretion, appoint their Authorized Representative and may, from time to time, delegate any / all of the duties / authority, vested in them, to their authorized Representative(s), including but not limited to, signing on their behalf to legally bind them, and may, at any time, revoke such delegation.
- The Authorized Representative shall only carry out such duties and exercise such authority as may be delegated to him, by the Purchaser, the Client or the Contractor.
- Any such delegation or revocation shall be in writing and shall not take effect until notified to the other parties to the Contract.
- Any decision, instruction or approval given by the Authorized Representative, in accordance with such delegation, shall have the same effect as though it had been given by the Principal.
- Notwithstanding Clause 65.4, any failure of the Authorized Representative to disapprove any Goods or Services or Works shall not prejudice the right of the Client to disapprove such Goods or Services or Works and to give instructions for the rectification thereof.
- If the Contractor questions any decision or instruction of the Authorized Representative of the Purchaser / the Client, the Contractor may refer the matter to the Purchaser / the Client who shall confirm, reverse or vary such decision or instruction.

Waiver

Failure of either party to insist upon strict performance of the obligations of the other party, under the Contract, shall in no way be deemed or construed to affect in any way the right of that party to require such performance.

Special Stipulations

SCHEDULE-A, SPECIAL STIPULATIONS	
For ease of Reference, certain special stipulations are as under:	
Tender Security	<p>The Contractor shall furnish the Tender Security as under:</p> <p>for the whole Tender;</p> <p>in the form of Demand Draft / Pay Order / Call Deposit Receipt, in the name of the Purchaser; for a sum equivalent to 2% of the estimated Price; denominated in Pak Rupees;</p>
Liquidated damages for failure / delay in supply / installation / configuration of Goods / Services / Works by the Contractor	<p>Liquidated damages shall be levied @ 0.25% of the Contract Price which is attributable to such part of the Goods / the Services / the Works as cannot, in consequence of the failure / delay, be put to the intended use, for every day between the scheduled delivery date(s), with any extension of time thereof granted by the Purchaser, and the actual delivery date(s). Provided that the amount so deducted shall not exceed, in the aggregate, 10% of the Contract Price. (This penalty will also be invoked on the commitments given by the Contractor in the technical proposal)</p>

Technical Proposal Submission Form

[Location, Date]

To (Name and address of Client / Purchaser)

Dear Sir,

We, the undersigned, offer to provide the (insert title of assignment) in accordance with your Request for Proposal/Tender Document dated (insert date) and our Proposal. We are hereby submitting our Proposal, which includes the Technical Proposal and the Financial Proposal sealed in two separate envelopes.

We undertake, if our Proposal is accepted, to provide supply of related to the assignment.

We also confirm that the Government of Pakistan / Punjab has not declared us, or any, ineligible on charges of engaging in corrupt, fraudulent, collusive or coercive practices. We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract, and we are aware of the relevant provisions of the Proposal Document.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature

(In full and initials)

Name and Designation of Signatory

Name of Firm

Address

Financial Proposal Submission Form (Part of Financial Bid Envelope)

[Location, Date]

To (Name and address of Client / Purchaser)

Dear Sir,

We, the undersigned, offer to provide the (Insert title of assignment) in accordance with your Request for Proposal dated (insert date) and our Technical Proposal. Our attached Financial Proposal is for the sum of (insert amount in words and figures).

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in of the Proposal Data Sheet.

We also declare that the Government of Pakistan / Punjab has not declared us or any Sub-Contractors for any part of the Contract, ineligible on charges of engaging in corrupt, fraudulent, collusive, or coercive practices. We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract, and are aware of the relevant provisions of the Proposal Document.

We understand you are not bound to accept any Proposal you receive.

Signed

In the capacity of:

Duly authorized to sign the proposal on behalf of the Applicant.

Date:

Annexure-C

Price Schedule/ Financial Cost Sheet

Must be filled separately

Sr. No.	Item Description with details specs and models etc.	Quantity	Price per unit (PKR)	Total Cost without GST	G.S.T.	TOTAL Price (incl. of all taxes)

Total Cost (in words). _____

Total GST : . _____

Grand Totals : . _____

Date _____

Place _____

Signature of authorized person

Name:

(Company Seal)

In the capacity of
Dully authority by

Note: No cutting or overwriting is allowed. Any cutting or overwriting will lead to rejection of the financial bid.

Format for Covering Letter

To
(Name and address of Purchaser)

Sub: _____.

Dear Sir,

- a) Having examined the tender document and Appendixes we, the undersigned, in conformity with the said document, offer to provide the said items on terms of reference to be signed upon the award of contract for the sum indicated as per financial bid.
- b) We undertake, if our proposal is accepted, to provide the items/services comprise in the contract within time frame specified, starting from the date of receipt of notification of award from the client Department / Office.
- c) We agree to abide by this proposal for the period of ____ days (as per requirement of the project) from the date of bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- d) We agree to execute a contract in the form to be communicated by the _(insert name of the Purchaser)_, incorporating all agreements with such alterations or additions thereto as may be necessary to adapt such agreement to the circumstances of the standard.
- e) Unless and until a formal agreement is prepared and executed this proposal together with your written acceptance thereof shall constitute a binding contract agreement.
- f) We understand that you are not bound to accept a lowest or any bid you may receive, not to give any reason for rejection of any bid and that you will not defray any expenses incurred by us in bidding.
- g) We would like to clearly state that we qualify for this work as our company meets all the criteria indicated on your tender document. The details are as under:

Authorized Signatures with Official Seal

INSTRUCTION FOR PREPARATION OF POWER OF ATTORNEY

Endorsed

- a)** To be executed by an authorized representative of the bidder.
- b)** The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants and when it is so required the same should be under common seal affixed in accordance with the required procedure.
- c)** Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a resolution/power of attorney in favor of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.
- d)** In case the Application is signed by an authorized Director / Partner or Proprietor of the Applicant, a certified copy of the appropriate resolution / document conveying such authority may be enclosed in lieu of the Power of Attorney.

Format of Power-of-Attorney

POWER OF ATTORNEY

(On Stamp Paper of relevant value)

Know all men by these presents, we (name of the company and address of the registered office) do hereby appoint and authorize Mr. (full name and residential address) who is presently employed with us and holding the position of as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our proposal for (name of the project) in response to the tenders invited by the (name of the Purchaser) including signing and submission of all documents and providing information/responses to (name of the Purchaser) in all matters in connection with our Bid.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Dated this _____ day of _____ 20__

For _____

(Signature)

(Name, Designation and Address)

Accepted

(Signature)

(Name, Title and Address of the Attorney)

Date:

UNDERTAKING

It is certified that the information furnished here in and as per the document submitted is true and correct and nothing has been concealed or tampered with. We have gone through all the conditions of tender and is liable to any punitive action for furnishing false information / documents.

Dated this _____ day of _____ 20__

Signature

(Company Seal)

In the capacity of

Duly authorized to sign bids for and on behalf of:

AFFIDAVIT

Integrity Pact

We (Name of the bidder / supplier) being the first duly sworn on oath submit, that Mr. / Ms. _____ (if participating through agent / representative) is the agent / representative duly authorized by (Name of the bidder company) hereinafter called the Contractor to submit the attached bid to the (Name of the Purchaser). Affiant further states that the said M/s (Bidding Firm/Company Name) has not paid, given or donate or agreed to pay, given or donate to any line officer or employee of the (Name of the Purchaser) any money or thing of value, either directly or indirectly, for special consideration in the letting of the contract, or for giving undue advantage to any of the bidder in the bidding and in the evaluation and selection of the bidder for contract or for refraining from properly and thoroughly maintaining projects implementations, reporting violation of the contract specification or other forms of non-compliance.

Signature & Stamp

Subscribed and sworn to me this _____ day of _____ 20__

Notary Public

TENDER SECURITY FORM

WHEREAS [Name and Address of the Contractor] (hereinafter called "the Contractor") has submitted Tender against Tender Name. _____ (hereinafter called "the Tender") to the [Name and Address of the Purchaser] (hereinafter called "the Purchaser") for the Total Tender Price of PKR (in figures _____) (in words _____).

AND WHEREAS [Name of the Bank] having registered office at [Address of the Bank] (hereinafter called "the Guarantor") has agreed to give the Contractor a Guarantee;

THEREFORE the Guarantor hereby affirms to bind himself, his successors and his assigns to the Purchaser, for the sum of PKR (in figures _____) (in words _____) and undertakes to pay to the Purchaser, upon receipt of his written demand(s), any sum(s) as specified by him, not exceeding the above limit in aggregate, without cavil / argument and without the Purchaser having to substantiate / prove or to show grounds / reasons for such claim(s), on the occurrence of any / all of the following conditions:

1. If the Contractor withdraws the Tender during the period of the Tender validity specified by the Contractor on the Tender Form; or
2. If the Contractor does not accept the corrections of his Total Tender Price; or

Provided that the Purchaser shall specify the occurred condition(s) owing to which the said sum is due to him.

Provided further that any demand(s) / claim(s) from the Purchaser shall reach the Guarantor within thirty working days after the expiry of the Guarantee.

This guarantee shall remain valid up to _____.

Date this _____ day of 20_____.

GUARANTOR

Signature _____

CNIC # _____

Name _____

Designation _____

Address _____

PERFORMANCE SECURITY

Issuing Authority:
Date of Issuance:
Date of Expiry: 90 - days
Claim Lodgment Date:

WHEREAS [Name and Address of the Contractor] (hereinafter called "the Contractor") has agreed to supply the Goods and render the Services against Tender Name. _____ (hereinafter called "the Contract") for the Contract Value of PKR (in figures _____) (in words _____).

AND WHEREAS it has been stipulated in the Tender Document that the successful Contractor shall furnish Performance Security, within seven working days of the receipt of the Acceptance Letter from the Purchaser, in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document or in another form acceptable to the Purchaser, for a sum equivalent to Rs. _____ (10% of the contract value) valid from the date of issue until all obligations have been fulfilled in accordance with the Contract;

AND WHEREAS [Name of the Bank] having registered office at [Address of the Bank] (hereinafter called "the Guarantor") has agreed to give the Contractor a Guarantee;

THEREFORE the Guarantor hereby affirms to bind himself, his successors and his assigns to the Purchaser, for the sum of PKR (in figures _____) (in words _____) and undertakes to pay to the Purchaser, upon receipt of his written demand(s), any sum(s) as specified by him, not exceeding the above limit in aggregate, without cavil / argument and without the Purchaser having to substantiate / prove or to show grounds / reasons for such claim(s), on the occurrence of any / all of the following conditions:

1. If the Contractor commits a default under the Contract;
2. If the Contractor fails to fulfill any of the obligations under the Contract;
3. If the Contractor violates any of the provisions of the Contract.

Provided that the Purchaser shall specify the occurred condition(s) owing to which the said sum is due to him.

Provided further that any demand(s) / claim(s) from the Purchaser shall reach the Guarantor within thirty working days after the expiry of the Guarantee.

This guarantee shall remain valid up to _____ or until expiry of warranties or all obligations have been fulfilled in accordance with the Contract, whichever is later.

Date this _____ day of 20_____

GUARANTOR:

Signature _____
 CNIC # _____
 Name _____
 Designation _____
 Address _____

**SCHEDULE OF REQUIREMENTS /
TENDER SPECIFICATIONS**

Item#	Item Name	Item Description	Qty.							
1	Security Cameras Solution with 30 days Recording	Hikvision/Huawei/Dahua or Equivalent	1 Complete Solution							
	4MP IP Bullet Camera	<u>4MP IR Bullet Network Camera 1/3" progressive CMOS</u> <u>With mounting brackets and water proof box</u>	<ul style="list-style-type: none"> · 4MP WDR 2560 × 1440 @ 25/30fps · IR LED Auto/Manual, max IR distance: 30 m · H.264/H.265/H.265+, flexible coding, Supported mode WDR 120 dB, 3D DNR, HLC, BLC, digital watermarking · Intelligent detection: Intrusion, tripwire, Motion detection, video tampering, Noise Reduction 3D DNR · 256 GB Micro SD card Supported · Metal Casing · 12V DC/PoE power support · IP67 protection grade · One-year onsite warranty 	14						
		4MP IP Dome/ Eyeball Camera			<u>4MP IR Dome/ Eyeball Network Camera 1/3" progressive CMOS with mounting brackets</u>					
		4MP IP Dome/ Eyeball Camera			4MP IP Dome/ Eyeball Camera	<ul style="list-style-type: none"> · 4MP WDR 2560 × 1440 @ 25/30fps · IR LED Auto/Manual, max IR distance: 30m · H.264/H.265/H.265+, flexible coding, Supported mode WDR 120 dB, 3D DNR, HLC, BLC, digital watermarking · Built-in MIC · Intelligent detection: Intrusion, tripwire, Motion detection, video tampering, Noise Reduction 3D DNR · 256 GB Micro SD card Supported · Metal Casing · PoE power support, 12V DC · IP67 protection grade · One-year onsite warranty 	90			
					ANPR Camera			<u>2Megapixel ANPR Camera 1/2.8 inch CMOS with mounting brackets and water proof box</u>		
					ANPR Camera			ANPR Camera	<ul style="list-style-type: none"> · Resolution 1920 x 1080, 0.002Lux/F1.6 (color), BLC Mode, HLC, WDR(140db) · Built-in LPR algorithm, video recording, Number plate picture, 10000 White list database, ANPR Distance 35m · Built-in IR ,5-50mm manual lens, · IR LED Auto/Manual, max IR distance: 40m 	2
								ANPR Camera		
								ANPR Camera		

		<ul style="list-style-type: none"> · Support Alarm, Audio, I/O, Loop or video detection, Micro SD, Metal Casing · Must have capability to integrate with proposed VMS · POE+, IP66 · One-year onsite warranty 	
	4MP Vari-Focal IP Bullet Camera	<p><u>4MP Vari-focal IR Bullet Network Camera 1/3” progressive CMOS with mounting brackets and water proof box</u></p> <ul style="list-style-type: none"> · 4MP WDR 2688×1520 @ 25/30fps · IR LED Auto/Manual, max IR distance: 60m · 2.7~13.5mm vari focal lens · H.264/H.265/H.265+, flexible coding, Supported mode WDR 120 dB, 3D DNR, HLC, BLC, digital · Tripwire, Intrusion, Event Trigger Motion detection, Video tampering, Scene changing · 128 GB Micro SD card Supported · Metal Casing · IP67, IK10, PoE+ · One-year onsite warranty 	4
	Centralized Video Management Software Including Xeon Server provisioned for 30 days’ storage & must support 120 Cameras & 50 Access Control Devices	<p><u>Centralized Video Management Software Including Xeon Server provisioned for 30 days’ storage & must support 120 Cameras & 50 Access Control Devices</u></p> <ol style="list-style-type: none"> 1. The VMS Software shall be ONVIF Profile S, G and T compliant and shall be listed on the ONVIF website 2. The software shall manage the storage of content to direct attached storage with unlimited size per camera. It also indicates what is the actual output size to each connected logical drive. 3. The software shall feature client/server architecture and multi-tasking and distribute server updates to all its connected desktop client automatically along with unlimited multiple brands of cameras, video servers, I/O devices, NVR, DVR, Video-interphone, ANPR, Facial Recognition & Access Control Devices supported 4. The software shall support the storage and transmission of images in the MJPEG, MPEG4, H.265 and H.264 formats. 5. The software shall support recording encryption AES 128 and AES 256 6. The software shall provide a timeline of the recorded images showing the points where there are recordings and/or motion and/or bookmarks, as well as allowing the selection of the time-of-day via the timeline. 7. The software shall permit the playback and exportation of various cameras simultaneously & should support Thumbnail search in playback. 	1

		<p>8. The software shall support a web base surveillance client in HTML5 capable of receiving live video transcoded in H.264, H.265 & MPEG-4 and decoding in the HTML5 client with no delay for the live.</p>	
		<p>9. Viewing Live Video</p>	
		<p>Single camera view, 4 / 9 / 16 / 25 view or similar, Full screen view, including ¼ / 9 / 16 / 25 images or similar, Sequence view of camera pre-set positions, Modifying settings for a camera, Modifying recording settings for a camera, Automatically changing recording profile by Event, The system can allow to create links to any camera, object, event, view, Analytic. View the live output from the selected camera including overlay object linked buttons, The views are up to 16 related cameras viewed simultaneously on a single display, There shall be no limit to the number of cameras that can be assigned to a single view, Quad / 8 / 16 view must be capable of supporting full frame rate on all windows.</p>	
		<p>10. The client monitoring software should be able to display all cameras, along with VCA cameras on the same screen. With the ability to playback VCA related incidents, events & alarms from the monitoring client itself.</p>	
		<p>11. Software shall support bookmarking feature:</p>	
		<p>a) The system allows the automatic creation of a bookmark when the recording profile is changed (By using motion detection).</p>	
		<p>b) The System shall allow the creation of bookmarks by any type of event. Whenever a given event occur, easily identifying them in the recordings</p>	
		<p>12. Software shall support Edge recording</p>	
		<p>a) The edge recording system shall allow the download and merge of recordings stored in the memory card of supported cameras.</p>	
		<p>b) Software shall have self-healing option, the system can be configured to automatically download camera recordings in case of a system failure, filling up the recording gaps from the failure:</p>	
		<p>13. Software shall support 360 lens</p>	
		<p>a) System should have "Dewarping" capability, e.g. remove the distortion and show normal image.</p>	
		<p>b) System Should have capability to view all lenses in 1/4 quad, 2/180 degree or full 360 degree in oval shape.</p>	
		<p>c) System should be integrated with the latest Panomorph library from Immervision.</p>	
		<p>14. Software shall support activate or deactivate any object on event</p>	
		<p>a) The object types that should be activated and deactivated by this action are: Cameras, Alarm Devices and Analytics Configurations</p>	
		<p>15. Software shall support ping cameras from registration screen</p>	

	a) The camera registration screen should be a ping button to assist the installation of a camera.	
	16. Alarm popup playback	
	a) The alarm popup from surveillance client should allow fast video playback from the event by just clicking the Playback button.	
	17. Show objects on event	
	a) In the occurrence of events, the system should allow displaying different types of objects (Cameras, Map, and Analytics Configuration) in the alarm popup in surveillance client.	
	18. Image Cropping	
	a) The system should provide a feature to crop the camera image. By using this feature, the system administrator can select an area of the image that he wishes to keep visible for the users.	
	19. Archiving System	
	a) System should allow archiving of recorded video as well as Audio as Metadata.	
	20. Meta Data	
	a) The VMS should allow VCA and Motion metadata recording, and playback tied to camera images.	
	21. The VMS software licensing shall be support	
	• Licensing system(s) shall be offline based on physical USB dongle key preferable	
	• Unlimited surveillance clients	
	• Unlimited administration clients	
	• Software support should be free for lifetime.	
	• Upgrade should be free for 6 Years minimum.	
	• Additional camera licenses shall be available	
	• The software should have Video Content Analytics Modules inbuilt within the VMS, so that there is no separate software required to configure and manage these modules.	
	Client VMS Desktop Computer with Dual Screen 20"	1
	55" LED Screen	2
	<u>24-Port Layer 2 PoE Switch</u>	8
24 Port PoE Switch Layer-2	· 2*10/100/1000 Base-T (Combo port), 2*1000 Base-X (Combo port), 24*10/100 Base-T (PoE power supply), support Hi-PoE (60W), PoE+, PoE, Total 240W	
	· IEEE802.3af, IEEE802.3at, Hi-PoE	
	· 802.1Q Standard VLAN, Static link aggregation	
	· Transmission distance up to 250m for Power & Data	
	· IP+MAC binding based on port, IEEE802.1x port authentication	
	· High and low priority, WRR, 802.1P, DSCP	

		One-year onsite warranty	
		15U Double section Data Cabinet	1
		Outside Cabinet	1
	UTP CAT6 Cable 4 Pair	Cat 6 UTP CABLE (3M, CLIPSAL, MOLEX) Cat 6 UTP 4 pair cable, Conductor: Solid Bare Copper AWG 23, Conductor Dia Norm: 0.57, Insulation Average, Thickness: 0.22 or higher, Point Thickness (mm): 0.18, Cabling Lay Length: 135 or higher, Filler: PE, Jacket: PVC, Jacket Average Thickness (±0.05mm): 0.50 Min, Jacket Point Thickness (mm): 0.46, Jacket Outer Dia: 6.1, Electrical Characteristics, NVP (%): 65	5000 Feet Approx./ APA
	UTP Installation	Complete installation of network nodes RFT including labor and material (PVC ducts, PVC hard pipe, Elbow, Flexible pipe, Paper sticker tags Casio, Numeric cable Tags, Alphabetic cable Tags, Cable Ties) for and all other related accessories, UTP cable laying and Termination of network nodes ducting cable punching. Complete installation, Configuration & Commissioning, Multi-Mode Optical Fiber Cable and Ethernet Switch-to-end point and switch to switch laying, The Bidder will provide exact type of Ducts/Pipes and tray to be installed for indoor/outdoor cabling, OFC fusion splicing Multi-Mode, ODF rack mountable with coupler. Fiber and Ethernet Patch Cord, Bidder is responsible for providing connectivity to Core Switch with fiber. Labeling (High Quality alphanumeric plastic cable tags, etc. in each aspect. Cable Laying of fiber and Ethernet etc. in each aspect.	5000 Feet Approx./ APA
	OFDF	4 Core Multimode Optical Fiber Cable or better	1700 feet Approx./ APA
	OFDF	Rackmount 12 Port OFDF with SC Coupler & Pigtail	1
	OFDF	Rackmount 8 Port OFDF with SC Coupler & Pigtail	2
	OF-PC	Fiber 3 meter Patch Cord, SC-LC	10
	OF-PC	Fiber 3 meter Patch Cord, LC-LC	10
	Splicing	Splicing	32
	Optical Fiber Installation	Optical fiber laying Charges per running feet	1700 feet approx./ APA
		Note:	
		Vendor have to arrange all other Equipment like Ladder, Scaffolding, Health Safety Equipment by own.	
Access Control with Management Software			
2	Access Control with Management Software	Virdi/Zkteco/Hikvision/Dahua or Equivalent	1 Solution
		Water Proof Biometric Access Control Device	50
		Support card, password, fingerprint and combination	
		TCP/IP Communication	
		Support 30,000 valid cards, 3,000 Fingerprints & 150,000 records	
		Card Read Format 125KHz, Fingerprint Read ≤1.5s	

		Supported Alarm Functions Door time out alarm, Intrusion alarm, Duress alarm, Tamper alarm	
		Supported Interfaces RJ45(10/100M), Wiegand34/26, RS485	
		IP55, 9-15DC/200mA	
		Must have capability to integrate with proposed VMS	
		One-year onsite warranty	
		Push Button with One-year onsite warranty	50
		Magnetic Lock for single door with One-year onsite warranty	20
		Magnetic Lock for Double Door with One-year onsite warranty	30
		UTP Cat-6 305 meters roll	4
		Complete installation, Configuration & Commissioning, Cable Laying etc. in each aspect.	
Tripod Turnstile RFID Control System			
3	Tripod Turnstile RFID Control System	Tiso/Zkteco/Dahua or Equivalent	6
		<u>RFID Based Tripod Turnstile</u>	-
		Tripod turnstile rod material stainless steel	
		Motor Type Mechanical drive, Switch Quantity Port 9 DO output, 1 12V power output, 5 DI input	
		Lock and Unlock Limit ≥ 2 million times, Passage Frequency 20 persons/minutes to 40 persons/minute	
		Should support Electromechanical integration with turn plate and stable self-lock	
		Should calculate number of people entries and exits	
		Must have ability to integrate with fire alarm sensors and in the event of fire alarm barrier rod should be released and allow people exit without verification. When fire alarm is off it automatically reset to default position	
		Turnstile & RFID reader should be from same OEM, which is offered for Access Control Device	
		TCP/IP or RS-485 Communication	
		220V AC $\pm 10\%$, 50/60HZ	
		Must have capability to integrate with proposed VMS	
		One year onsite warranty	
		<u>4-Door Tripod Turnstile Access Controller</u>	<u>2</u>
		Advance access control capabilities should be built-in; including Anti-pass back, Multi-interlock, Multi-card unlock	
		Support Door time out alarm, Intrusion alarm, Duress alarm, Tamper alarm	
		RJ45(10/100M), Wiegand26/34, RS485	
		Inputs x 8 (door sensor x 2, exit button x 2, alarm x 4), Relay x 6(door lock x 2, alarm x 4)	

		Turnstile Access Controller should be from same OEM, which is offered for Access Control Device	
		Support card, password, fingerprint and combination	
		9-15DC/500mA	
		One-year onsite warranty	
		Complete installation, Configuration & Commissioning, Cable Laying etc. in each aspect	
Digital Camera			
4	Digital SLR Camera	Sony/Canon/Nikon or Equivalent	2
		<u>24 Mega-Pixel Digital SLR Camera</u>	-
		Mega-pixels 24 MP or higher, ISO 100-25600, 60p Full HD, 39 AF Points, 5fps, Vari-angle monitor, Touch Screen	
		Image Sensor 23.5 x 15.6 mm CMOS sensor, Dust-reduction system	
		NEF (RAW): 12 or 14 bit, compressed, JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression, NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats	
		SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards	
		Autofocus support Autofocus is available with AF-S, AF-P and AF-I lenses	
		Focus point support from 39 or 11 focus points	
		Video compression support H.264/MPEG-4 Advanced Video Coding and Built-in or external stereo microphone; sensitivity adjustable	
		Must have rechargeable Li-ion Battery	
		One-year onsite warranty	
FAX Machine			
5		HP/Canon/Epson or Equivalent	5
		<u>4-In-1 Fax Machine</u>	
		Must have 4-In-1 capabilities i.e.; Scan, copy, print and fax	
		Must support printing Speed up-to 20 Pages/min	
		Color 33 Pages/min Monochrome or higher	
		Must support scanning resolution 1,200 x 2,400	
		Must support Fax page memory up-to 100, include fax functions such as PC Fax, Memory Reception, Auto Redial, Speed Dial	
		Paper loading tray must have minimum 150 pages' capacity or higher	
		Wi-Fi, Wi-Fi Direct & USB 2.0 or higher connectivity	
		One-year onsite warranty	
Photocopier			
6		Canon/Toshiba/Ricoh/Konica Minolta or Equivalent	5
		<u>Photocopier B&W 65ppm</u>	
		Must have copying speed up-to 65 ppm or higher	

		Must have laser copying technology with HD toner	
		Must have Print resolution 1800 x 600, 1200 X 1200 dpi & copy resolution 600 dpi X 600 dpi	
		Must support scanning speed 120 ipm for simplex & 240 ipm for duplex	
		Must have following paper input capacity	
		Standard Built-in 1150 sheets and must have upgrade capabilities up to 6650 sheets or higher	
		A5-A3 500 sheets or higher	
		A5-SRA3 500 sheets or higher	
		Support paper sizes of A3, A4, A5, A6, B4, B5, B6	
		System memory/Hard Disk: 4GB/250GB or higher	
		One-year onsite warranty	
UC IP Hybrid Exchange			
7	IP Exchange Supported 150 users & PRI Digital Line	<u>IP Exchange Supported IP Enterprise 150 users & PRI Digital Line</u>	1 Solution
		<u>PABX Features:</u>	
		Welcome Message, Call Forwarding, Automated Attendant, Music on hold- internal, Call Pickup, Do Not Disturb, call Interruption During Call, Group Ringing, Night Service, Call Park, User personal Code, Incoming & Outgoing CDR, PA Function, Call restrictions	
		Built-in 20 Parties conferencing call	
		<u>UC IP Exchange Configuration & Expansion:</u>	
		Built-in Configuration with-out third party integration	
		IVR 10 Port, 1 PRI, 150 IP Enterprise Extension, 6 FXO Port, 16 FXS Port Built-in in	
		License Base Upgradation Support upto 1000 line IP and Analog mix and match in quoted Model.	
		Country of Origen: USA, Europe, Japan only	
		<u>Unified Communication Feature:</u>	
		Voice Mail, two-way Call Recording, Presence status, Status-based call forwarding, Favorites List, Instant Messaging, UC clients for Smart phones / Mobile / Tablet /Desktop etc.	
		<u>Operator Console:</u>	
		HD Voice, 6-Line LCD Display	
		12 x 3 Self-Labeling Flexible Buttons, Speakerphone, Navigator Keys, 4 Soft Key,	
		2 Ethernet/PoE	
	EHS support		
	Same OEM of IP Exchange		
	One-year onsite warranty		

	UTP CAT6 Cable 4 Pair	<u>Cat 6 UTP CABLE (3M, CLIPSAL, MOLEX Or Equivalent)</u>	1000 Feet Approx/ APA
		Cat 6 UTP 4 pair cable, Conductor: Solid Bare Copper AWG 23, Conductor Dia Norm: 0.57, Insulation Average, Thickness: 0.22 or higher, Point Thickness (mm): 0.18, Cabling Lay Length: 135 or higher, Filler: PE, Jacket: PVC, Jacket Average Thickness (±0.05mm): 0.50 Min, Jacket Point Thickness (mm): 0.46, Jacket Outer Dia: 6.1, Electrical Characteristics, NVP (%): 65	
	3 Meter UTP Patch Cord	<u>Cat 6 UTP PATCH CORD 3 METER (3M, CLIPSAL, MOLEX or Equivalent)</u>	150
		UTP Cat VI patch cord (3 meter), Conductor size: 24 AWG stranded copper wire Nom, Operating temperature range: 20°C to 60°C, Mechanical Characteristics: Plug, MIN Operating life: 750 insertion cycles, RJ45 plug and boot material: Clear polycarbonate, Contact material: 0.35mm thick copper alloy, Contact plating: Selective gold, RJ45 plug dimensions compliant with: ISO/IEC 60603-7-4 and FCC 47 Part 68	
		<u>Complete installation, Configuration & Commissioning</u>	APA
		Complete installation of voice nodes RFT including labor and material (PVC ducts, PVC hard pipe ,Elbow, Flexible pipe, Paper sticker tags casio, Numeric cable Tags, Alphabetic cable Tags, Cable Ties) for and all other related accessories, UTP cable laying and Termination of Voice nodes ducting cable punching.	
	IP Phone	Panasonic/Avaya/Unify or Equivalent	150
	IP Phone	<u>IP Phone</u>	
		· SIP Line	
		· inch Backlight LCD Display	
· Full Duplex Speakerphone, Volume Key			
· Programmable Buttons			
· HD audio			
· Support for UC features including			
· Same OEM of quoted PBAX			
· One-Year onsite warranty			
24 Port PoE Switch Layer-2	<u>24-Port Layer 2 PoE Switch</u>	7	
	· 2*10/100/1000 Base-T (Combo port), 2*1000 Base-X (Combo port), 24*10/100 Base-T (PoE power supply), support Hi-PoE (60W), PoE+, PoE, Total≤240W		
	· IEEE802.3af, IEEE802.3at, Hi-PoE		
	· 802.1Q Standard VLAN, Static link aggregation		
	· Transmission distance up to 250m for Power & Data		
	· IP+MAC binding based on port, IEEE802.1x port authentication		
	· High and low priority, WRR, 802.1P, DSCP		
	· One-year onsite warranty		

<u>Audio conference, Audio Systems, Projector with Screen & 55" LEDs TV</u>			
		Item Description	
8	Audio System	Audio Conference System for Meeting Rooms	2
		<u>High Quality Wireless Audio System for Meeting Room with 10 Person Sitting</u>	
		<u>Conference controller:</u>	
		Built-in 4.3 inch full-color touch screen, 5G wireless communication conference system, Built-in 128 bits AES encryption, Supports 300 wireless microphone	
		Built-in USB recording and playback	
		<u>Wi-Fi conference microphone:</u>	
		Built-in 4.3 inch full-color touch screen	
		screen 5G WIFI communication, Voice control microphone, 128 bits AES encryption, message sending,	
		Support 5 key, 3 key, user-defined, voting, and rating	
		Built-in 12900mAh battery	
		<u>12 Port Mic Mixer:</u>	
		4 channels (4 XLR), 1-channel CD, 4-channel single plug mono, 4 sets (8 channels mono), Phantom power +48V with switch.	
		Wireless AP transmitter, Power charger, with 10 USB charger interfaces, LAN 10/100Mbps switch.	
		Three-year onsite warranty	
		<u>4x 60W Speaker System with Amplifier for Wireless connection</u>	
		5" High-end Conference Loudspeaker, 60W@8Ω with Wall mount bracket	
		Stereo Amplifier , 2×200W@8Ω, 2×300W@4Ω, 600W@Bridge 8Ω	
		Three-year onsite warranty	
		<u>High Quality Wireless Audio System for Meeting Room with 20 Person Sitting</u>	1
		<u>Conference controller:</u>	
		Built-in 4.3 inch full-color touch screen, 5G wireless communication conference system, Built-in 128 bits AES encryption, Supports 300 wireless microphone	
		Built-in USB recording and playback	
		<u>Wi-Fi conference microphone:</u>	
		Built-in 4.3 inch full-color touch screen	
		screen 5G WIFI communication, Voice control microphone, 128 bits AES encryption, message sending,	
Support 5 key, 3 key, user-defined, voting, and rating			
Built-in 12900mAh battery			

		<u>12 Port Mic Mixer:</u>	
		4 channels (4 XLR), 1-channel CD, 4-channel single plug mono, 4 sets (8 channels mono), Phantom power +48V with switch.	
		Wireless AP transmitter, Power charger, with 10 USB charger interfaces, LAN 10/100Mbps switch.	
		Three-year onsite warranty	
		<u>4x 60W Speaker System with Amplifier for Wireless connection</u>	
		5" High-end Conference Loudspeaker, 60W@8Ω with Wall mount bracket	
		Stereo Amplifier , 2×200W@8Ω, 2×300W@4Ω, 600W@Bridge 8Ω	
		Three-year onsite warranty	
		Complete Installation, Configuration & Commissioning, Cable Laying etc. in each aspect.	
		<u>High Quality Audio System for Auditorium Hall</u>	1
		<u>1x 16 Channel mixer with 4 group:</u>	
		6 channels (4 XLR), 2-channel CD, 4-channel single plug mono, 4 sets (8 channels mono), Phantom power +48V with switch	
		<u>1x Suppressor (Digital Feedback Suppressor):</u>	
		Input Impedance Balanced:20KΩ, Output Impedance	
		Balanced:100KΩ, Input Range ≤+20dBu, Gain 0-12dB	
		<u>2x UHF segment LCD liquid crystal display FM true diversity Wireless Mic, two handheld mics:</u>	
		Supports 200 Channel, Audio Frequency Response 80-18KHz (±3DB), Working Distance 100m,	
		<u>1x UHF segment LCD liquid crystal display FM true diversity UHF Wireless Mic, two collar mics:</u>	
		Supports 200 Channel, Audio Frequency Response 80-18KHz (±3DB), Working Distance 100m	
		<u>4x Floor stand for wireless handheld mic:</u>	
		Height 980-1680mm, Slanting Pole 550-900mm	
		<u>2x Wired Desktop Mic:</u>	
		Frequency 20Hz-18KHz, Output Impedance 75Ω, Balanced, Mic Length 400mm, Cable Connection XLR	
		<u>1x Lectern:</u>	
		1 gooseneck MIC, 1 lamp; 2 VHF handheld or 1 handheld and 1 lapel MIC optional; built-in 60W amplifier and 60W speaker; 1 aux input, 2 MIC inputs, 1-line output and 1 REC output	
		<u>8x 5" High-end Conference Loudspeaker:</u> 60W@8Ω with wall mount bracket	
		<u>4x Professional Stereo Amplifier:</u> 2×200W@8Ω, 2×300W@4Ω, 600W@Bridge 8Ω	

		<u>High Quality Audio System for Lecturer Room</u>	6
		1x Lectern	
		1 gooseneck MIC, 1 lamp; 2 VHF handheld or 1 handheld and 1 lapel MIC optional; built-in 60W amplifier and 60W speaker; 1 aux input, 2 MIC inputs, 1-line output and 1 REC output	
		Three-years onsite warranty	
		Complete Installation, Configuration & Commissioning, Cable Laying etc. in each aspect.	
		<u>High Quality Projector with Screen for Auditorium Hall</u>	1
		<u>Fixed Screen:</u>	
		300" Projector screen (White) with fittings (strings & springs)	
		<u>Multimedia Projector:</u>	
		Lumens: 5,000	
		Contrast Ratio: 3,000,000:1	
		Resolution: WUXGA	
		Laser Light Source	
		Support 4K/30P Signal Input*3 Via HDMI or Digital Link	
		Display: Transparent LCD Panel (x3 , R/G/B)	
		One-year onsite warranty	
		Projector Ceiling Mounting with 3 axis adjustment	
		Installation & Calibration of Projection	
		Necessary cabling for HDMI, Cat6 for Projector connectivity	
9	Projectors with Screen	<u>High Quality Projector with Screen for Lecturer and Meeting Room</u>	9
		<u>Multimedia Projector:</u>	
		Brightness: 3800 lumens, Resolution: XGA 1024 x 768, Panel: LCD	
		Contrast Ratio: 16.000:1	
		Interfaces: HDMI input terminal, 2 sets of computer (RGB) input terminals, a monitor (RGB) output terminal,	
		a wired LAN terminal, and a serial (RS-232C) terminal for external control	
		Must have auto input signal search & built-in 10 Watt speaker or higher	
		Modes: Colorboard & Blackboard (Green)	
		Life cycle for lamp replacement must be up-to 20 000 hours in Eco mode	
		Projector Mounting kits for ceiling	
		Necessary cabling for HDMI/Cat6 for Projector Connectivity	
		One-year onsite warranty	

		Complete installation, Configuration & Commissioning, Cable Laying etc. in each aspect.	
Video Conference for meeting rooms (20 person sitting)			
10	Video Conference for meeting rooms (20 person sitting)	<u>CISCO/Huawei/Polycom or Equivalent</u>	2
		The proposed system must support PAL with a PTZ camera. The codec must be based on ITU standards The VC equipment should be a codec based hardware. No software based solution is accepted here. All components of the VC system like Codec, Camera and Microphone should be from the same OEM.	
		Full HD 1080p camera, codec, Microphone Array, cables, and remote control	
		<u>Video Standards and Resolutions:</u>	
		It should support H.323, SIP standards for communications.	
		It should support H.261, H.263, H.264 AVC/ SVC, H.264 High Profile	
		It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps	
		<u>Content Standards and Resolutions:</u>	
		It should support content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for content sharing.	
		It should transmit both people and content both simultaneously to the far end location at 1080p 30fps	
		<u>Audio Standards and Features:</u>	
		It should support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better	
		It should support 20kHz or better bandwidth with crystal clear audio and stereo sound.	
		Automatic Gain Control and Automatic Noise Suppression	
		Keyboard noise reduction and instant adaptation echo cancellation	
		<u>Video and Audio Inputs:</u>	
		1 x HD input for connecting main HD camera	
		1 x HDMI input for connecting PC/Laptop to share HD content	
		1 x Microphone Input or more	
		1 x 3.5mm stereo line-in	
<u>Video and Audio Outputs:</u>			
2 x HDMI output for connecting main monitor & second monitor.			
1 x 3.5 mm stereo line-out			
<u>Other Interfaces:</u>			
1 x 10/100/1000 LAN port			

		2 x USB 2.0 for software upgrade and connecting external devices	
		1 x RS-232 mini-DIN 8-pin	
		<u>Camera:</u>	
		It should support 1080p60fps with 12x optical zoom.	
		It should support PAN Range of +/-90°, and Tilt of +/-20°	
		It should be capable of enhancing video conferencing experience with advanced face-recognition technology such that it automatically scans the room and seamlessly commands the main camera to appropriately frame the users during a call without any manual intervention.	
		<u>Touch Panel:</u>	
		10-inch touch panel to integrate with main equipment. It will control the equipment.	
		<u>Microphone:</u>	
		One additional microphone with cable must be included.	
		<u>Network Features:</u>	
		H.323 and SIP bandwidth up to 6 Mbps	
		IPv4 and IPv6 support from day one	
		Auto Gatekeeper Discovery	
		IP Precedence	
		H.323 based Packet Lost Recovery	
		<u>Multisite Feature:</u>	
		It should support at least 6 sites at 720p	
		<u>Security:</u>	
		Media Encryption (H.323, SIP): AES-128, AES-256	
		Authenticated access to admin menus, web interface and telnet API	
		Local account password policy configuration	
		One-year onsite warranty	
		<u>HD Display</u>	
		55" LED Screen 1920 x 1080 pixels	4
		One-year onsite warranty	
		Complete installation, Configuration & Commissioning, Cable Laying etc. in each aspect.	
Note: Bidders have to quote complete package not a single item.			