



INFORMATION TECHNOLOGY UNIVERSITY (ITU)

INVITATION TO BID

Information Technology University (ITU), invites proposals/bids for: "Procurement of Miscellaneous Equipment for Energy Monitoring and Control System under HEC funded Research Grant for Establishment of Industrial Monitoring and Automation Lab at ITU".

2. Tender Document is available at www.itu.edu.pk and www.ppra.punjab.gov.pk. The procurement shall be completed in accordance with Punjab Procurement Rules 2014, on Single Stage - Two Envelope Bidding Procedure.
3. A single package containing Technical and Financial Bids separately, duly completed, signed, stamped, sealed and in complete conformity with Tender Document should be dropped, in the Tender Box placed at Reception of the ITU office, 6th Floor, Arfa Software Technology Park, 346-B, Main Ferozpur Road Lahore, not later than 1500 Hours on last date of submission of bids i.e. **16th March, 2021**. The bids shall be opened at 1600 Hours on the same date, as per Punjab Procurement Rules, 2014.
4. All bids must be accompanied by Bid Security in complete conformity of the clause "Bid Security" of the prescribed tender document, as per Rule-27 of Punjab Procurement Rules 2014. Bids which are incomplete, not sealed, not signed and stamped, late or submitted by other than specified mode will not be considered.
5. All prospective firms/bidders are required to collect a challan form from the Procurement Office-ITU at below given address to submit an amount of Rs.1000/- (for each Lot) in ITU's Account. The deposit slip must accompany the bid; otherwise the bid shall stand rejected.
6. Income/Sales tax registration certificate and other required documents as mentioned in Tender Document must accompany the bids. Taxes will be deducted as per government rules.

Note: ITU may reject all bids or proposals at any time prior to the acceptance of a bid or proposal, as provided under Rule-35 of Punjab Procurement Rules, 2014.

PURCHASE OFFICER

INFORMATION TECHNOLOGY UNIVERSITY (ITU)

6th Floor, Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore.

Phone: (042) 111-111-488, Fax (042) 99232537

Web: www.itu.edu.pk

Tender Document

Tender No. 48833-02032021-01

**PROCUREMENT OF MISCELLANEOUS
EQUIPMENT FOR ENERGY MONITORING AND
CONTROL SYSTEM UNDER HEC FUNDED
RESEARCH GRANT FOR
ESTABLISHMENT OF INDUSTRIAL MONITORING
AND AUTOMATION LAB AT ITU**



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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.

CHECKLIST FOR BID SUBMISSION

The bidder(s) must fill-up the checklist / table given below and attach required documents with proper Annexures:

Sr. #	Description	Yes/ No	Attached at Annexure
Technical Proposal			
1.	Covering letter <u>Annex-E</u> , duly signed and stamped by authorized representative on Firm's Letter Head.		
2.	Compliance to the specifications of all items to be procured mentioned vide <u>Annex-A</u> of Tender Document by furnishing an Undertaking on Firm's Letter Head.		
3.	Technical Proposal Submission Form <u>Annex-B</u> duly signed and stamped on Firm's Letter Head.		
4.	An Undertaking <u>Annex-G</u> signed & stamped on Firm's Letter Head to certify the information to be furnished in bidding document have been satisfactorily vetted.		
5.	Income Tax Registration certificate (NTN) with Active status.		
6.	General Sales Tax Registration with Active status.		
7.	Compliance of the Execution Schedule and Delivery Period by furnishing an undertaking on Firm's Letter Head.		
8.	An Undertaking on legal stamp paper that the Firm is not blacklisted by any provincial or federal government department, agency, organization or autonomous body anywhere in Pakistan.		
9.	Relevant experience documents i.e. Purchase Orders / Contracts for specified period of one (1) year as required in Technical Evaluation Criteria.		
10.	Valid authorization certificate / document of the Principal/ Manufacturer for this Tender/Lot.		
11.	Technical Offer/BOQ clearly mentioning quoted Brand/ Model with Technical specifications offered, along with Brochures / Literature/Datasheets and website links.		
12.	Power of Attorney <u>Annex-E</u> , if an authorized representative is appointed.		
13.	Affidavit (Integrity Pact) <u>Annex-H</u> , on legal stamp paper.		
14.	Receipt (ITU copy) deposit slip of bidder registration for this tender/ Lot(s). Challan Form given at <u>Annex-K</u> of Tender Document.		

Financial Proposal			
15.	Financial Proposal Form <u>Annex-C</u> , duly signed & stamped on Firm's Letter Head.		
16.	Price Schedule/Financial Cost Sheet <u>Annex-D</u> , duly signed & stamped on Firm's Letter Head.		
17.	Bid Security, as per provisions of (<u>clause-15</u>) of this Tender Document.		

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 if and when received.

1. Invitation to Bid

1.1 Punjab Procurement 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>

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

1.2 Mode of Advertisement(s)

As per Rule 12(2), this Tender is being placed online at PPRA's website as well as being advertised in print media. The bidding document carrying all details can be downloaded from ITU's website www.itu.edu.pk and from PPRA's website www.ppra.punjab.gov.pk for information only. All prospective bidders are required to register themselves with the Procurement Office, ITU at above given address; collect a Challan Form to submit an amount of Rs.1,000/- (for each Lot) in ITU's account. The deposit slip must accompany respective bid; otherwise the bid will stand rejected.

Type of Open Competitive Bidding

As per Rule 38(2)(a) of Punjab Procurement Rules, 2014, Single Stage – Two Envelope Bidding Procedure shall be followed. The said procedure is reproduced as follows:

- (i) the bid shall be a single package consisting of two separate envelopes, containing separately the financial and the technical proposals;
- (ii) the envelopes shall be marked as "Financial Proposal" and "Technical Proposal";
- (iii) in the first instance, the "Technical Proposal" shall be opened and the envelope marked as "Financial Proposal" shall be retained unopened in the custody of the procuring agency;
- (iv) the procuring agency shall evaluate the technical proposal in the manner prescribed in advance, without reference to the price and shall reject any proposal which does not conform to the specified requirements;
- (v) during the technical evaluation no amendments in the technical proposal shall be permitted;
- (vi) after the evaluation and approval of the technical proposals, the procuring agency shall open the financial proposals of the technically accepted bids, publically at a time, date and venue announced and communicated to the bidders in advance, within the bid validity period;
- (vii) the financial bids found technically nonresponsive shall be returned un-opened to the respective bidders; and
- (viii) the lowest evaluated bidder shall be awarded the contract.

2. Bidding Details (Instructions to Bidders)

All bids must be accompanied by Bid Security (Earnest Money), as per provisions of this tender document clause “Bid Security” in favor of “**Information Technology University**”. The complete bids as per required under this tender document, must be delivered into the Tender Box, placed at reception of Information Technology University, Lahore, not later than **1500 hours** on **16th March, 2021**. Late bids shall not be considered. Bids shall be publicly opened in the Committee Room of Information Technology University, 6th Floor, Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, at **1600 hours** on **16th March, 2021**. In case the last date of bid submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the bids shall be the next working day.

Queries of the Bidders (if any) for seeking clarifications regarding the specifications of the Goods/ Items must be received in writing to the Purchaser till **09th March, 2021**. Any query received after said date may not be entertained. All queries shall be responded to within due time. ITU will host a Q&A session at ITU premises (6th Floor, Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore). All Bidders shall be informed of the date and time in advance.

The bidder shall submit bid which comply with the Bidding Document. Alternative bids shall not be considered. The attention of bidders is drawn to the provisions of this tender document Clause regarding “**Determination of Responsiveness of Bid**” and “**Rejection / Acceptance of the Tender**” for making their bids substantially responsive to the requirements of the Bidding Document.

It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bid and no claim whatsoever including those of financial adjustments to the contract / Letter of Acceptance awarded under this Bid Process will be entertained by the Purchaser. Neither any time schedule, nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder.

It must be clearly understood that the Terms and Conditions and Specifications are intended to be strictly enforced. No escalation of cost except arising from increase in quantity by the Bidder on the demand and approval of the Purchaser will be permitted throughout the period of completion of the contract.

The Bidder should be fully and completely responsible for all the deliveries and deliverables to the Purchaser.

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

Primary Contact

Muhammad Sohaib

Team Lead (IMAL)

Email: muhammad.sohaib@itu.edu.pk

4th Floor, Arfa Software Technology Park,
346-B, Ferozpur Road, Lahore, Pakistan.

Secondary Contact

For general queries relating tender document bidders may contact at:
habiba.azam@itu.edu.pk

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, contact number (landline, mobile), 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.

Failure to supply required items/services within the specified time period will invoke penalty as specified in this document.

TERMS AND CONDITIONS OF THE TENDER

3. 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 / concerned 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 interested Firm/Company/Supplier/Distributors that may provide or provides the general order items etc. and related services to any of the public/private 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 / Vendor" means the Tenderer whose bid has been accepted and awarded Letter of Acceptance for a specific item followed by the signing of Contract.
- 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, any defects and damages 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 general order supplies 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 Information Technology University (ITU) 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 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 "Eligible" is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan

4. 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.

5. 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.

6. Tender Scope

- 6.1 Information Technology University (ITU), (hereinafter referred to as "the Purchaser") invites / requests Proposals (hereinafter referred to as "the Tenders") for supply of Misc. Energy Monitoring and Control System Equipment (Hereinafter referred to as "the Goods") and for installation, configuration, deployment, commissioning, testing, after-sale support, of said Goods (hereinafter referred to as "the Services").
- 6.2 The equipment will be delivered, deployed, installed and configured at Information

Technology University, Lahore, as specified by the Purchaser at the time of delivery. Detail requirements and specifications are attached at **Annexure-A**.

7. Tender Eligibility/Qualification Criteria

7.1 Eligible Bidder/Tenderer is a Bidder/Tenderer who:

- 7.1.1 has a registered/incorporated company/firm in Pakistan with relevant business experience of last three (3) years;
- 7.1.2 Must be registered with Tax Authorities as per prevailing tax rules (Only those firms / companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate);
- 7.1.3 has valid Registration of General Sales Tax (GST) & National Tax Number (NTN) and must be included in Active Tax Payer List;
- 7.1.4 has submitted bid for complete Lot and relevant bid security;
- 7.1.5 must be involved in manufacturing, sales or supply of similar nature equipment for last one (1) year;
- 7.1.6 has authorization certificate of the principal / manufacturer;
- 7.1.7 has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory) for tender;
- 7.1.8 has the required relevant qualified personnel and enough strength to fulfill the requirement of assignment.
- 7.1.9 Conforms to the clause of "Responsiveness of Bid" given herein this tender document.
- 7.1.10 Goods and Services can only be supplied / sourced / 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.

8. 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.

9. Joint Venture / Consortium

Joint venture / consortium are not eligible for this tender.

10. Examination of the Tender Document

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

11. Clarification of the Tender Document

The Tenderer may require further information or clarification of the Tender Document, within 05 (five) calendar days of issuance of tender in writing. The clarification and its replies will be shared with all prospective bidders. Bidders should note that during the period from the receipt of the bid and until further notice from the Primary Contact given herein this document, 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.

12. 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(s), 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(s).
- 12.2 The Purchaser shall notify the amendment(s) in writing to the prospective Tenderers as per Punjab Procurement Rules, 2014.
- 12.3 The Purchaser may, at its exclusive discretion, amend the Tender Document to extend the deadline for the submission of the Tender as per Rule-25(4) of Punjab Procurement Rules, 2014.

13. Preparation / Submission of Tender

- 13.1 The Tenderer is allowed to bid for any or all Lots separately.
- 13.2 The Tenderer will submit their respective bids in a manner explained in this tender document.
- 13.3 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.
- 13.4 The Tender shall be filed in / accompanied by the prescribed Forms, Annexures, 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, signed and stamped photocopies may be submitted. If volume of the bid contains various set(s) of documents the same must be properly numbered and tagged in binding shape.
- 13.5 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.
- 13.6 The **Technical Proposal** shall comprise the following, **without quoting the price**:
 - 13.6.1 Compliance to the Specifications of the Goods / the Services of the Tender Document (**Annexure-A**)
 - 13.6.2 Technical Proposal Form (**Annexure-B**)
 - 13.6.3 Undertaking (All terms & conditions and qualifications listed anywhere in

this tender document has been satisfactorily vetted) and Affidavit (Integrity Pact) **(Annexure-G&H)**

- 13.6.4 Covering letter duly signed and stamped by authorized representative. **(Annexure-E)**
 - 13.6.5 Authorized Certificate / document from the principal / manufacturer.
 - 13.6.6 Evidence of eligibility of the Tenderer and the Goods
 - 13.6.7 Evidence of conformity of the Goods / the Services to the Tender Document
 - 13.6.8 Undertaking and Evidence that the quoted Goods are genuine, brand new, non-refurbished, un-altered in any way, of the most recent / current model, imported through proper channel, and incorporate all recent improvements in design and materials
 - 13.6.9 Technical Brochures / Literature (If any)
 - 13.6.10 Details of Warranty and After-Sale Service against each Lot(s)
 - 13.6.11 Submission of **undertaking on legal valid and attested stamp paper** that the firm is **not blacklisted** by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan.
 - 13.6.12 Valid Registration Certificate for Income Tax & General Sales Tax and status of the Firm / Company on Active Tax Payer List
 - 13.6.13 Power of Attorney, if an authorized representative is appointed **(Annexure-F)**
- 13.7 The **Financial proposal** shall comprise the following:
- 13.7.1 Financial Proposal Form **(Annexure-C)**
 - 13.7.2 Price Schedule **(Annexure-D)**
 - 13.7.3 Bid Security **(Earnest Money)**, as per provisions of the clause Bid Security of this document.
- 13.8 The Tenderer shall seal the Original Technical Proposal/Bid in an envelope duly marked as under:

Original Technical Proposal/Bid for:

Tender Name. [Name of Tender]

Tender No. **48833-02032021-01**

Lot No:

Strictly Confidential

[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 seal the Duplicate Technical Proposal/Bid in an envelope duly marked as under:

Duplicate Technical Proposal/Bid for:

Tender Name. [Name of Tender]

Tender No. **48833-02032021-01**

Lot No:

Strictly Confidential

[Name of the Purchaser]

[Address of the Purchaser]

[Name of the Tenderer]

[Address of the Tenderer]

[Phone No. of the Tenderer]

13.10 The Tenderer shall follow the same process for the Financial Proposal/Bid.

13.11 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 Proposal/Bid for:

Tender Name. [Name of Tender]

Tender No. **48833-02032021-01**

Lot No:

Strictly Confidential

[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 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 Proposal/Bid for:

Tender Name. [Name of Tender]

Tender No. **48833-02032021-01**

Lot No:

Strictly Confidential

[Name of the Purchaser]
[Address of the Purchaser]

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

- 13.13 The Tenderer may 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.
- 13.14 The Tender shall be dropped in the prescribed Tender Box placed at the Reception of the Purchaser's office, not later than 1500 hours on last date of submission of bids. No late bid shall be accepted.
- 13.15 This is made obligatory to affix authorized signatures with official seal on all original and duplicate (copies) documents, annexures, copies, certificates, brochures, literature, drawings, letters, forms and all relevant documents as part of the bids submitted by the tenderer.

14. 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 in Pak Rupees;
- 14.1.3 inclusive of all taxes, duties, levies, insurance, freight, etc.;
- 14.1.4 including all charges up to the delivery point at Information Technology University, Lahore, as specified by the Purchaser at the time of delivery.
- 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 be free of charge, and no separate payment shall be made for that item(s).
- 14.4 In case of locally produced Equipment/Service, the price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials (if any) used in the manufacture or assembly of the item. 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 (if required by the Purchaser).

15. Bid Security (Earnest Money)

- 15.1 The bid security amount has been calculated and demanded on estimated price as per provision of Rule-27 "Bid Security" of PPRA Rules, 2014 (i.e. not exceeding five percent of the estimated cost), the Tenderer shall furnish the Bid Security (Earnest Money) as under:
- 15.1.1 for amounts mentioned in following table against each Lot;

Lot #	Description	Bid Security Amount (Rs.)
1	Modular Controllers with Accessories	30,000/-
2	Air Quality Probe Kit with Accessories	25,000/-
3	Power Meter	12,000/-
4	Miscellaneous Components for Installation	15,000/-

- 15.1.2 denominated in Pak Rupees;
- 15.1.3 As part of financial bid envelope, failing which will cause rejection of bid.
- 15.1.4 in the form of Demand Draft / Pay Order / Call Deposit Receipt, in the name of the Purchaser;
- 15.1.5 have a minimum validity period of one hundred and twenty (120) days from the last date for submission of the Tender or until furnishing of the Performance Security, whichever is later.
- 15.2 The Bid Security shall be forfeited by the Purchaser, on the occurrence of any / all of the following conditions:
- 15.2.1 If the Tenderer withdraws the Tender during the period of the Tender validity specified by the Tenderer on the Tender Form; or
- 15.2.2 If the Tenderer does not accept the corrections of his Total Tender Price; or
- 15.2.3 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; or
- 15.2.4 If the Tenderer, fails or refuses to deliver the required items/goods or fulfill the order placed within the stipulated time period.
- 15.3 The Bid security shall be returned to the unsuccessful Tenderer after completion of Bid Evaluation Criteria. The Bid Security shall be returned to the successful Tenderer upon complete delivery of Items/Goods and issuance of satisfactory certificate by the concerned team of the Purchaser.
- 16. Tender Validity**
- The Tender shall have a minimum validity period of one hundred and twenty (120) 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 Bid Security shall also be suitably extended. The Tenderer may refuse extension of validity period of the Tender, without forfeiting the Bid security.
- 17. 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 Bid Security.

18. Opening of the Tender

- 18.1 Tenders shall be opened at 1600 hours on the last date of submission of bids, in the presence of the Tenderer(s) for which they shall ensure their presence without further invitation, as per provision of Rule-(30) of Punjab Procurement Rules, 2014. In case the last date of bid submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the bids shall be the next working day.

- 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.

19. 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 sole discretion of the purchaser.

20. 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 given herein this tender document.

20.1.2 meets the Technical Specifications for the Goods/Items;

20.1.3 meets the delivery period / point for the Goods/Items;

20.1.4 in compliance with the rate and limit of liquidated damages;

20.1.5 offers fixed price quotations for the Goods / Items, whereby no optional offer / bid or price is allowed;

20.1.6 is accompanied by the required Bid Security as part of bid envelope against tender only;

20.1.7 The original receipt of tender fee submitted, attached with the bid envelope against tender only;

20.1.8 In compliance with the Preparation/Submission of Tender in a manner prescribed in this tender document clause-13;

- 20.1.9 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 / Items / Services 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.
- 21. 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 No credit shall be given for offering delivery period earlier than the specified period.

22. Technical Evaluation Criteria

- 22.1 The Bidders who have duly complied with the Eligibility/Qualification and Technical Evaluation Criteria against each Lot will be eligible/responsive for further processing.
- 22.2 The Bids, which do not conform, to the Technical Specifications or Bid conditions or Bids from the Bidders without adequate capabilities for supply of Goods /Equipment will be rejected.
- 22.3 The Responsive/Technically Qualified Bidders will be considered for further evaluation.
- 22.4 The Technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria against each Lot:

Category	Description	Remarks
Mandatory Compliance	Valid Income Tax Registration with Active status.	Required
	Valid General Sales Tax Registration with Active status.	Required
	Submission of undertaking on legal valid and attested Stamp Paper that the firm is not blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan.	Required
	Compliance to the specifications of all items / equipment to be procured mentioned vide Annex-A of this document by furnishing an Undertaking in this regard on Firm's Letter Head .	Required
	In full compliance of the Execution Schedule and Delivery Period mentioned in tender document by furnishing an undertaking in this regard on Firm's Letter Head .	Required
Must be involved in manufacturing, sales or supply business of similar nature equipment during last one (1) year (Verifiable through relevant purchase orders / contracts)	Required	

Note: Verifiable documentary proof for all above mandatory requirements will be pre-requisite for the evaluation of bids of the vendor(s)/bidder(s).

23. Financial Proposal Evaluation

23.1 Technically qualified/responsive Bidder(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders at the time and venue indicated by the Purchaser accordingly. The technically Responsive/Successful Bidder(s) or their authorized representatives shall be allowed to take part in the Financial Proposal opening against their relevant Lot(s).

23.2 Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The bids Prices will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes given by the Government in favor of the Purchaser, the contractor shall be bound to adjust the same in the Financial Proposal.

23.2.1 In cases of discrepancy between the cost/price quoted in Words and in Figures, the lower of the two will be considered.

23.2.2 In evaluation of the price of an imported item, the price will be determined and considered inclusive of the customs and other import duties etc.;

23.2.3 In evaluation of the price of articles/goods/services which are subject to

excise duty, sales tax, income tax or any other tax or duty levied by the Government, the price will be determined and considered inclusive of such duties and taxes.

- 23.3 The Purchaser will not be responsible for any erroneous calculation of taxes and all differences arising out as above shall be fully borne by the Successful Bidder. However, any subsequent changes in rates or structure of applicable taxes by the Government at any time during execution/evaluation period will be dealt with mutual consent.

24. Rejection / Acceptance of the Bid

- 24.1 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 at the time of order placement. The Purchaser may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The Purchaser shall upon request communicate to any bidder, the grounds for its rejection of all bids or proposals, but shall not be required to justify those grounds. The Purchaser shall incur no liability, solely, by virtue of its invoking sub-rule(1) of Rule-35 of Punjab Procurement Rules, 2014 towards the bidders. However, bidders shall be promptly informed about the rejection of the bids, if any (As per Rule-35 of Punjab Procurement Rules, 2014).
- 24.2 The Tender shall be rejected if it is:
- 24.2.1 substantially non-responsive in a manner prescribed in this tender document clause-7&20; or
 - 24.2.2 submitted in other than prescribed forms, annexes, schedules, charts, drawings, documents / by other than specified mode; or
 - 24.2.3 bid not submitted against complete Lot and relevant bid security is not submitted against relevant Lot(s);
 - 24.2.4 incomplete, partial, conditional, alternative, late; or
 - 24.2.5 subjected to interlineations / cuttings / corrections / erasures / overwriting; or
 - 24.2.6 the Tenderer refuses to accept the corrected Total Tender Price; or
 - 24.2.7 the Tenderer has conflict of interest with the Purchaser; or
 - 24.2.8 the Tenderer tries to influence the Tender evaluation / Contract award; or
 - 24.2.9 the Tenderer engages in corrupt practices in competing for the Contract award;
 - 24.2.10 the Tenderer fails to meet all the requirements of Tender Eligibility / Qualification Criteria (Clause-7);
 - 24.2.11 the Tenderer fails to meet the evaluation criteria requirements (clause-22);
 - 24.2.12 the tenderer has been blacklisted by any public or private sector organization;
 - 24.2.13 the tenderer has been served any legal notices or displeasure letters by any public sector organization on serious failures to provide satisfactory services;

- 24.2.14 the tenderer has mentioned any financial implication(s) in the proposal that is in contradiction to this document and Government rules and regulations.
- 24.2.15 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.
- 24.2.16 the Tenderer submits any financial conditions as part of its bid which are not in conformity with tender document.
- 24.2.17 Non-submission of verifiable proofs against the mandatory as well as general documentary, qualification and eligibility related requirements.
- 24.2.18 If the rates quoted by vender are not workable or on higher side etc.

25. Award Criteria

- 25.1 At first step, responsive bidder(s)/tenderer(s) as per clause-7, clause-22 of this tender document fulfilling the qualification and technical evaluation criteria against relevant Lot(s) will stand technically qualified.
- 25.2 At second step, technically responsive/qualified bidder(s)/tenderer(s) will be evaluated in the light of all Pre-Conditions, necessary requisites and the contract shall be awarded in the light of Punjab Procurement Rules, 2014 and fulfilling all codal formalities against relevant Lot(s).

26. Acceptance Letter

As per provisions of Rule-(55) of Punjab Procurement Rules 2014, the Purchaser shall issue the Acceptance Letter to the successful Tenderer, at least after 10 days of announcement of bid evaluation reports (Ref: Rule-37 of Punjab Procurement Rules, 2014) and prior to the expiry of the original validity period or extended validity period of the Tender, which shall constitute a contract, until execution of the formal Contract.

27. Performance Security

- 27.1 The successful Bidder/The Contractor against each Lot shall furnish Performance Security as under:
 - 27.1.1 within **twenty (20) days of the receipt of the Acceptance Letter** from the Purchaser;
 - 27.1.2 in the form of Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document, whereas, if the individual contract amount is < PKR 0.5 million, performance securities in the shape of demand draft / pay order may be accepted along with undertaking regarding its renewal by the Contractor before expiry, for required time period as per the signed Contract.
 - 27.1.3 for a sum equivalent to **10%** of the contract value;
 - 27.1.4 denominated in Pak Rupees;
 - 27.1.5 have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfilment of all obligations under the contract, whichever is later. Performance security shall not be acceptable with any validity less than the prescribed time period.

- 27.2 The Performance Security shall be payable to the Purchaser, on occurrence of any / all of the following conditions:
- 27.2.1 If the Contractor commits a default under the Contract;
 - 27.2.2 If the Contractor fails to fulfill the obligations under the Contract;
 - 27.2.3 If the Contractor violates any of the terms and conditions of the Contract.
- 27.3 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.
- 28. Redressal of grievances by the procuring agency**
- 28.1 The Purchaser has constituted a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.
- 28.2 Any bidder feeling aggrieved by any act of the Purchaser after the submission of his bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the bid evaluation report.
- 28.3 The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.
- 28.4 Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
- 28.5 Any bidder not satisfied with the decision of the committee of the Purchaser may lodge an appeal in the relevant court of jurisdiction.

TERMS & CONDITIONS OF THE CONTRACT (TENTATIVE)

Contract Title:

**PROCUREMENT OF MISCELLANEOUS EQUIPMENT FOR ENERGY
MONITORING AND CONTROL SYSTEM UNDER HEC FUNDED
RESEARCH GRANT FOR**

**ESTABLISHMENT OF INDUSTRIAL MONITORING AND
AUTOMATION LAB AT ITU**

[Name of Contractor]

Dated:

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This CONTRACT AGREEMENT (this “Contract”) made as of the **[day]** of **[month]**, **[year]**, between **Information Technology University** (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 “the 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 Services 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 Services and to remedy defects 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 Services and provision of the Services and remedying of defects 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. Service Level Agreement (SLA) (if required)
- 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 **Information Technology University:** For **[full legal name of the Contractor]:**

Signature

Signature

Name

Name

Witnessed By:

Witnessed By:

WITNESSES

Signature _____

Signature _____

CNIC # _____

CNIC # _____

Name _____

Name _____

Designation _____

Designation _____

Address _____

Address _____

II. General Conditions of Draft Contract

29. Contract

The Purchaser shall, after issuance of Letter of Acceptance (LOA), send the Contract provided in the Tender Document, to the successful Tenderer. Within three working days of the receipt of such Contract, the Tenderer shall sign and date the Contract and return it to the Purchaser.

30. Contract Duration

The Contract duration shall be for the period of one (1) year, starting from the date of delivery, installation, deployment & commissioning of ordered Goods / Equipment or till end of warranty period, whichever is later.

31. 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, 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.

32. 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.

33. Standards

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

34. Commercial Availability

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

35. 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/items or Service or any part thereof.

36. Execution Schedule

The Contractor shall deliver, deploy and install the ordered equipment **within eight (8) weeks** from the date of issuance of Letter of Acceptance.

37. Packing

The Contractor shall provide such packing of the Goods/Items/ 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 (if any) thereof shall be included in the Contract Price.

38. 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. All networking equipment, cables, connectors, ports, boxes shall be clearly labeled.

39. Delivery

39.1 The Contractor shall deliver, deploy and install the hardware **within eight (8) weeks** from the date of issuance of Letter of Acceptance.

39.2 The Contractor shall indicate his delivery approach clearly specifying the requirements for packing, shipping and unpacking of deliverable Goods/Items with any associated/relevant documentation. The approach shall address shipment of deliverables to the various designated sites. The approach shall also specify any special shipping constraints such as custom requirements, security requirements, access arrangement or loading dock requirements. The Contractor shall deliver, deploy, install and configure the Goods/items at Information Technology University Lahore, as specified by the Purchaser at the time of delivery.

39.3 The Goods/Items shall remain at the risk and under the physical custody of the Contractor until the delivery, testing and taking over of the Goods is completed.

39.4 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.

39.5 The Contractor shall include in the Tender a detailed logistics plan which shall include support details for transportation, mobilization and personnel scheduling during 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.

40. Taking-Over Certificate

40.1 The Contractor shall, by written notice served on the Client with a copy to the Purchaser, apply for a Taking-Over Certificate.

40.2 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 items supplied by the Contractor to enable the Taking-Over Certificate to be issued.

40.3 Nothing contained in this document shall, in any way, release the Contractor from any Warranty or other obligations under the Contract.

41. Warranty

41.1 The Contractor shall warrant to the Purchaser that the Goods supplied by the Contractor, under the Contract are genuine, brand new, non-refurbished, unaltered 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.

41.2 The Contractor shall further warrant that the Goods / Items 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 / Items.

41.3 The Contractor shall provide standard warranty for minimum **one (1) year** (hereinafter referred as Warranty Period) after the issuance of Taking-over Certificate in respect of Goods and the Services, or any portion thereof, as the case may be, which will include:

41.3.1 Free, on site repair / replacement of defective / damaged parts and labor, within 24 hours of intimation in Lahore and 48 hours outside Lahore;

41.3.2 On site replacement of defective / damaged Goods, if repair of such Goods involves a duration exceeding 24 hours in Lahore and 48 hours outside Lahore.

41.4 The Contractor shall clearly mention Terms and Conditions of service agreements for the Goods supplied after the expiry of initial warranty period. In case of International Warranties, the local authorized dealers shall mention their service and warranty setup, details of qualified engineers, etc.

41.5 The Warranty Period shall start from the date of installation / configuration / deployment of the Goods on site and upon issuance of taking-over certificate.

41.6 The Client shall, by written notice served on the Contractor with a copy to the Purchaser, promptly indicate any claim(s) arising under the warranty.

41.7 The Contractor shall, within the prescribed time period, after receipt of such notice, repair or replace the defective / damaged Goods or parts thereof on site, without any cost to the Purchaser.

41.8 The end user licenses, end user warranties and end user contracting support services shall be in the name of Purchaser, for the Goods supplied and the Services provided, under the Contract.

42. 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.

43. Defects Liability Expiry Certificate

43.1 The Contractor shall, after expiry of the warranty period, by written notice served on the Client with a copy to the Purchaser, apply for a Defects Liability Expiry Certificate.

43.2 The Client shall, within seven days of receipt of such notice, either issue the Defects Liability Expiry Certificate to the Contractor with a copy to the Purchaser, stating the date of expiry of the Warranty Period for all the Goods supplied and fulfillment of all obligations by the Contractor, under the Contract; or reject the application giving the reasons and specifying the items required to be supplied by the Contractor to enable the Defects Liability Expiry Certificate to be issued.

44. Payment

44.1 The Contractor shall provide all necessary supporting documents along with invoice.

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

44.3 The Purchaser shall get verified the details of Goods/Items delivered against the invoice from the Concerned Technical Team of ITU and Payment shall be made on complete delivery of Goods/Items after issuance of satisfactory certificate by concerned technical team, as per details given in relevant Letter of Acceptance.

44.4 The Purchaser shall pay the amount verified within thirty (30) days. Payment shall not be made in advance and against partial deliveries. The Purchaser shall make payment for the Goods supplied and the Services provided by the Contractor, as per Government policy, in Pak Rupees, through cross cheque.

44.5 All payments shall be subject to any and all taxes, duties and levies applicable under the laws of Pakistan.

45. Price

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

46. Contract Amendment

46.1 The Purchaser may at any time, by written notice served to the Contractor, alter or

amend the contract for any identified need/requirement in the light of prevailing rules and regulations.

46.2 The Contractor shall not execute any Change until and unless the Purchaser has allowed the said Change, by written order served on the Contractor.

46.3 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.

46.4 No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

47. Assignment / Subcontract

47.1 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.

47.2 The Contractor shall guarantee that any and all assignees / subcontractors of the Contractor shall, for performance of any part under the contract, comply fully with the terms and conditions of the Contract applicable to such part under the contract.

48. 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.

49. 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 submitted performance security, as liquidated damages, a sum of money @0.25% of the total Contract Price which is attributable to such part of the Goods / the Services, 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.

50. Blacklisting

If the Contractor fails / delays in performance of any of the obligations, under the Contract / Letter of Acceptance, violates any of the provisions of the Contract / Letter of Acceptance, commits breach of any of the terms and conditions of the Contract / Letter of Acceptance or found to have engaged in corrupt practices in competing for the award of contract / Letter of Acceptance or during the execution of the contract / Letter of Acceptance, the Purchaser may 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, as per provision of Punjab Procurement Rules, 2014.

51. Forfeiture of Performance Security

51.1 The Performance Security shall be forfeited by the Purchaser, on occurrence of any / all of the following conditions:

51.1.1 If the Contractor commits a default under the Contract;

51.1.2 If the Contractor fails to fulfill any of the obligations under the Contract;

51.1.3 If the Contractor violates any of the terms and conditions of the Contract.

51.2 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. In case the Contractor fails to submit bank guarantee with extended validity period for such period(s) as the contract performance may be extended, an amount equal to 10% of total contract value shall be deducted from the payments to be made against the contract.

51.3 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, forfeit Performance Security of the Contractor.

51.4 Failure to supply required items/services within the specified time period will invoke penalty as specified in this document. In addition to that, Performance Security amount will be forfeited and the company will not be allowed to participate in future tenders as well.

52. Termination for Default

52.1 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.

52.2 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, Services / Items, similar to those undelivered, and the Contractor shall be liable to the Purchaser for any excess costs for such similar Services / Items. However, the Contractor shall continue performance of the Contract to the extent not terminated.

53. 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.

54. Termination for Convenience

54.1 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.

54.2 The Goods/Items 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/Items, the Purchaser may elect:

54.2.1 to have any portion thereof completed and delivered; and/or

54.2.2 to cancel the remainder and pay to the Contractor an agreed amount for partially completed Services, Items and materials / parts previously procured by the Contractor for the purpose of the Contract, together with a reasonable allowance for overhead & profit.

55. Force Majeure

55.1 For the purpose of this contract "Force Majeure" means an event which is beyond the reasonable control of a party and which makes a party's performance of its obligations under the Contract / Letter of Acceptance impossible or so impractical as to be considered impossible under the circumstances, and includes, but is not limited to, War, Riots, Storm, Flood or other industrial actions (except where such strikes, lockouts or other industrial are within the power of the party invoking Force Majeure), confiscation or any other action by Government agencies. In all disputes between the parties as to matters arising pursuant to this Contract, 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.

55.2 The Contractor shall not be liable for liquidated damages, blacklisting for future tenders, if and to the extent his failure / delay in performance / discharge of obligations under the Contract / Letter of Acceptance is the result of an event of Force Majeure.

55.3 If a Force Majeure situation arises, The Contractor shall, by written notice served on The Purchaser, indicate such condition and the cause thereof. Unless otherwise directed by The Purchaser in writing, The Contractor shall continue to perform under the Contract / Letter of Acceptance as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

55.4 Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or Agents or Employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account

at the time of the conclusion of this Contract / Letter of Acceptance and (B) avoid or overcome in the carrying out of its obligations here under.

55.5 Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

56. Dispute Resolution

56.1 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 / Letter of Acceptance.

56.2 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 / Letter of Acceptance 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.

57. Statutes and Regulations

57.1 The Contract / Letter of Acceptance shall be governed by and interpreted in accordance with the laws of Pakistan.

57.2 The Contractor shall, in all matters arising in the performance of the Contract/ Letter of Acceptance, 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.

57.3 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.

58. Taxes and Duties

The Contractor shall be entirely responsible for all taxes, duties and other such levies imposed make inquiries on income tax / sales tax to the concerned authorities of Income Tax and Sales Tax Department, Government of Pakistan.

59. 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 successful bidder shall provide legal stamp papers of relevant value according to Govt. rules and regulations for signing of the formal contract.

60. The Client

60.1 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.

60.2 The Contractor shall proceed with the decisions, instructions or approvals given by the Client in accordance with these Conditions.

60.3 The Client shall conform to all the relevant clauses of this Tender Document to carry out all responsibilities assigned thereto in a timely manner.

61. Authorized Representative

61.1 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.

61.2 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.

61.3 Any such delegation or revocation shall be in writing and shall not take effect until notified to the other parties to the Contract.

61.4 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.

61.5 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.

62. Waiver

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

63. Training

63.1 The Contractor shall arrange and undertake (if & when required) a comprehensive training program for the staff nominated by the Purchaser / the Client to ensure that they shall acquire a good working knowledge of the operation, and general maintenance of the Goods to be supplied under the Contract.

63.2 In case of non-compliance with instructions, non-cooperation or other difficulties experienced by the Contractor with regard to any of these personnel, the Contractor shall apprise the Purchaser / Client and proceed to implement suitable remedial measures after consultation with them.

64. Documentation

The Contractor shall furnish the user documentation, the operation manuals, and service manuals for each appropriate unit of the supplied Goods and other information pertaining to the performance of the Goods, in hard copy format, in soft copy format and in the form of on-line help, before the Goods are taken over by the Purchaser.

65. Special Stipulations

SCHEDULE-A, SPECIAL STIPULATIONS																
For ease of Reference, certain special stipulations are as under:																
Bid Security (Earnest Money)	<p>The bid security amount has been calculated and demanded on estimated price as per provision of Rule-27 "Bid Security" of PPRA Rules, 2014 (i.e. not exceeding five percent of the estimated cost), the Tenderer shall furnish the Bid Security (Earnest Money) as under: for amounts mentioned in following table against each Lot;</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Lot #</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Bid Security Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Modular Controllers with Accessories</td> <td style="text-align: center;">30,000/-</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Air Quality Probe Kit with Accessories</td> <td style="text-align: center;">25,000/-</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Power Meter</td> <td style="text-align: center;">12,000/-</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">Miscellaneous Components for Installation</td> <td style="text-align: center;">15,000/-</td> </tr> </tbody> </table> <p>In the form of Demand Draft / Pay Order / Call Deposit Receipt, in the name of the Purchaser; denominated in Pak Rupees;</p> <p>Have a minimum validity period of 120 days from the last date for submission of the Tender or until furnishing of the Performance, whichever is later.</p>	Lot #	Description	Bid Security Amount (Rs.)	1	Modular Controllers with Accessories	30,000/-	2	Air Quality Probe Kit with Accessories	25,000/-	3	Power Meter	12,000/-	4	Miscellaneous Components for Installation	15,000/-
Lot #	Description	Bid Security Amount (Rs.)														
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3	Power Meter	12,000/-														
4	Miscellaneous Components for Installation	15,000/-														
Performance Security	<p>The successful Contractor shall furnish Performance Security as under:</p> <p>within twenty (20) days of the receipt of the Acceptance Letter from the Purchaser;</p> <p>in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document;</p> <p>for a sum equivalent to 10% of the total contract value; denominated in Pak Rupees;</p> <p>Have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfilment of all obligations under the contract whichever is later. Performance security shall not be acceptable with any validity less than the prescribed time period.</p>															
Delivery Period (including installation, configuration, deployment, commissioning, testing, and training of the delivered items)	<p>The Contractor shall deliver, deploy and install the equipment within eight (8) weeks from the issuance of Letter of Acceptance.</p>															
Liquidated damages for failure / delay in supply of Goods / Items by the Contractor	<p>If the Contractor fails / delays in performance of any of the obligations, under the Contract / Letter of Acceptance, violates any of the provisions of the Contract / Letter of Acceptance, commits breach of any of the terms and conditions of the Contract/ Letter of Acceptance, 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 total Contract Price which is attributable to such part of the Goods / Items, 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.</p>															

TECHNICAL SPECIFICATIONS**LOT # 1**

Modular Controllers with Accessories			
Sr. No.	Items Description	Specifications	Qty.
1.	PLC (CPU) with Communication Cables	AC/DC/DC, onboard, I/O: 24 DI 24 V DC: 16 DO 24 V DC, Having High Speed Outputs: 3: 100 kHz Pulse Train Output; Power supply: 100~240VAC Program/data memory 40 KB, Interface: RS 485 (max. 187.5 kbps), Switching frequency: 100 kHz	03
2.	PLC (CPU) with Communication Cables	Digital Inputs: 24 High speed (200KHz) 6 Points, Medium speed (20KHz) 2 Points, Medium speed (Total 5KHz) 8 points, Medium low Speed (0.47ms) 8 points Digital Outputs: 16 Relay, 1 built-in RS-232 (can be expanded up to 3) 100~240VAC power supply.	04
3.	Analogue Input Module	8 AI, 0...10V, 0...5V, +/-5 V, +/-2.5 V or 0/4-20 mA; 11 bit + sign (12 bit ADC), Supply voltage: 24 V; -15 / +20 %, Power loss 2W	03
4.	Analogue Output Module	4 AO, +/-10 V, 11 bit resolution, or 4-20 mA, 11 bit resolution, Supply voltage: 24V Power Loss: 2.7W	03
5.	Analogue Input/Outputs Module (Combo)	Input point: 4, Output point: 2 Input/output value: -8192~8191 or 0~16383 (14-bit), Bipolar: Voltage: -10~10V or -5~5V Current: -20~20mA or -10~10mA, Unipolar: Voltage: 0~10V or 0~5V Current: 0~20mA or 0~10mA, Power consumption: 24VDC -15%/+20%, 3.2W max.	03
6.	RS485 Communication Module for PLC	Integrated protocols: Modbus RTU master: Address area 1 through 49 999 (Standard Modbus addressing) Number of slaves, max. 247; slave numbers 1 through 247, per MODBUS network segment maximum 32 devices, additional repeaters needed to expand the network to maximum configuration MODBUS RTU SLAVE: Address area 1 through 49 999 (Standard Modbus addressing) Temperature Range: -40...+60°C	01
7.	HMI	10.1" 1024 x 600 TFT LCD, LED Backlight, Power: 24VDC, COM2 and COM3 RS-485 support MPI 187.5K, Processor: 32-bit RISC 600MHz, Power: 24VDC, I/O Port: USB 2.0 x 1, COM Port: RS232, RS485	03

8.	HMI	7" 800 x 480 TFT LCD, LED Backlight, Processor: 32 bits RISC Cortex-A8 600MHz, Power: 24VDC, COM2 and COM3 RS-485 support MPI 187.5K, Processor: 32 bits RISC Cortex-A8 600MHz , I/O Port: USB 2.0 x 1, COM Ports: COM1: RS-232 , COM2: RS-485 2W/4W, COM3: RS-485 2W	03
9.	Servo Motor & Drive	Power: 1 KW Speed:2000 RPM Rated Voltage:220 VAC W/ Break 130 mm flange size 22 mm shaft size	01
NOTE:			
i.	One (1) year Parts and Labor warranty for all components on site.		
ii.	The bidder(s) must submit their bids against complete Lot.		
iii.	The bidders should clearly mention Terms and Conditions of service agreements for the supplied hardware equipment after the expiry of initial warranty period.		
iv.	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.		
v.	Please mention the country of origin / manufacturing / assembly of the quoted brand / model.		
vi.	All items must be factory fitted & configured. Vendor / Assembler to provide verification of Serial numbers.		
vii.	Annexure-A/Specifications are duly made, checked and verified by the concerned Technical Team.		

LOT # 2

Air Quality Probe Kit with Accessories			
Sr. No.	Items Description	Specifications	Qty.
1.	Particulate Matter Sensor	Mass concentration:PM1.0, PM2.5, PM4 and PM10 Number concentration:PM0.5, PM1.0, PM2.5, PM4 and PM10 Concentration range:1 to 1000 µg/m ³ Concentration resolution:1 µg/m ³ Concentration precision: < ±12 % @ 0 to 100 µg/m ³ < ±15 % @ 100 to 1000 µg/m ³ Response Time:≤ 5 s Working Temperature:-10 to 60 C Working Humidity:0 to 99% Mean Time Failure:≥ 5 Year Interface: UART, I2C Power Supply:4.5 - 5.5 V DC, ≤100mA	05
2.	Carbon Monoxide Sensor	Measurement Range: 0 – 1000 ppm Response time: < 50s Sensitivity at nA/ppm at 2ppm: 420 – 650 ppm Overgas Maximum limit: 2000 ppm Operating life: > 24 Months Zero drift: < ±150 ppb Sensitivity @ -20°C @ 5ppm: 40 – 70 ppm Sensitivity @ 50°C @ 5ppm: 110 – 125 ppm Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %	04
3.	Hydrogen Sulfide Sensor	Measurement Range: 0 – 100 ppm Response time: < 90s Sensitivity at nA/ppm at 2ppm: 1450 – 2600 ppm Overgas Maximum limit: 200 ppm Operating life: > 18 Months Zero drift: < ±150 ppb Sensitivity @ -20°C @ 5ppm: 77 – 90 ppm Sensitivity @ 50°C @ 5ppm: 100 – 110 ppm Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %	04
4.	Sulfur Dioxide Sensor	Measurement Range: 0 – 110 ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: 275 – 520 ppm Overgas Maximum limit: at least 200 ppm Operating life: > 24 Months Zero drift: < ±30 ppb Sensitivity @ -20°C @ 5ppm: 70 – 90 ppm or better Sensitivity @ 50°C @ 5ppm: 90 – 110 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %	04

5.	Ozone Sensor	<p>Measurement Range: 0 – 25 ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: -225 to -750 ppm Overgas Maximum limit: at least 50 ppm Operating life: > 18 Months Zero drift: 0 – 20 ppb Sensitivity @ -20°C @ 5ppm: 77 – 90 ppm or better Sensitivity @ 50°C @ 5ppm: 95 – 125 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %</p>	04
6.	Nitrogen Dioxide Sensor	<p>Measurement Range: 0 – 25 ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: -200 to -650 ppm Overgas Maximum limit: at least 50 ppm Operating life: > 18 Months Zero drift: 0 – 20 ppb Sensitivity @ -20°C @ 5ppm: 60 – 80 ppm or better Sensitivity @ 50°C @ 5ppm: 95 – 115 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %</p>	04
7.	Digital Gas Sensor Module for Carbon Mono Oxide	<p>Measurement Range: 0 to 900 ppm or better Resolution: 0.1 ppm (1) Zero Accuracy: ± 1 ppm (2) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading or 2 ppm, whichever is greater T90 Response Time: (100 ppm step) < 30 seconds (15 seconds typical) Power Consumption: 1 mW for 1 minute triggered samples 12 mW for continuous sampling 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range: -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight: < 2 Ounces</p>	03
8.	Digital Gas Sensor Module for Nitrogen Dioxide	<p>Measurement Range: 0 to 5 ppm or better Resolution: 20 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 100 µW in standby mode: 14 mW in measurement mode Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range: -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x</p>	03

		20.8 x 8.9 mm) Weight: < 2 Ounces	
9.	Digital Gas Sensor Module for Sulphur Dioxide	<p>Measurement Range: 0 to 20 ppm Resolution: 50 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 1 mW for 1 minute triggered samples: 12 mW for continuous sampling: 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces</p>	03
10.	Digital Gas Sensor Module for Ozone	<p>Measurement Range: 0 to 5 ppm Resolution: 20 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 100 µW in standby mode 14 mW in measurement mode Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces</p>	03
11.	Digital Gas Sensor Module for Hydrogen Sulphide	<p>Measurement Range: 0 to 10 ppm Resolution: 10 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 1 mW for 1 minute triggered samples 12 mW for continuous sampling 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces</p>	03
12.	SparkFun Atmospheric Sensor Breakout	<p>Measures atmospheric pressure : 30kPa to 110kPa Breakout:3.3v SPI interface Measurements < 1mA Idles < 5µA Breakout Board pins: 10 Operation Voltage: 3.3V I²C & SPI Communications Interface</p>	20

		Temp Range: -40C to 85C Humidity Range: 0 - 100% RH, =-3% from 20-80% Pressure Range: 30,000Pa to 110,000Pa, relative accuracy of 12Pa, absolute accuracy of 100Pa Altitude Range: 0 to 30,000 ft. (9.2 km), relative accuracy of 3.3 ft. (1 m) at sea level, 6.6 (2 m) at 30,000 ft. Incredibly Small	
NOTE:			
i.	One (1) year Parts and Labor warranty for all components on site.		
ii.	The bidder(s) must submit their bids against complete Lot.		
iii.	The bidders should clearly mention Terms and Conditions of service agreements for the supplied hardware equipment after the expiry of initial warranty period.		
iv.	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.		
v.	Please mention the country of origin / manufacturing / assembly of the quoted brand / model.		
vi.	All items must be factory fitted & configured. Vendor / Assembler to provide verification of Serial numbers.		
vii.	Annexure-A/Specifications are duly made, checked and verified by the concerned Technical Team.		

LOT # 3

Power Meters			
Sr. No.	Items Description	Specifications	Qty.
1.	Energy Meters	Phase-Neutral 290V L-N Line-Line 500V L-L VAC RMS Rated for 5-300V and without CT Min. Current 5A,with minimum 1% accuracy for both voltage and current with an insight of power utilization Offer RS485 or LAN Communication Front Display: LCD with Backlight Size: 96 x 96mm	10
2.	Energy Meters	Phase-Neutral 290V L-N Line-Line 500V L-L VAC RMS Nominal input current: 5A / 1A AC RMS User selectable CT Secondary 1A/5A User selectable PT Secondary from 100 VLL to 500 VLL, PF measurement range (0.5 Lead ... 1 ... 0.5 Lag) and MODBUS (RS485) Communication, Interference Emission IEC 61326 - 1:2005, Class A	10
3.	Phase Failure Relays	Main Voltage: 3 x 380 Power Supply: 185-250V 3 Phase and Neutral Protection	10
NOTE:			
i.	One (1) year Parts and Labor warranty for all components on site.		
ii.	The bidder(s) must submit their bids against complete Lot.		
iii.	The bidders should clearly mention Terms and Conditions of service agreements for the supplied hardware equipment after the expiry of initial warranty period.		
iv.	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.		
v.	Please mention the country of origin / manufacturing / assembly of the quoted brand / model.		
vi.	All items must be factory fitted & configured. Vendor / Assembler to provide verification of Serial numbers.		
vii.	Annexure-A/Specifications are duly made, checked and verified by the concerned Technical Team.		

LOT # 4

Miscellaneous Components for Installation			
Sr. No.	Items Description	Specifications	Qty.
1.	Adapter 5V	5V, 2A Output Power, AC/DC Adapter Input Range 100VAC-230VAC, Plug Standard 2.1/5.5mm or better	10
2.	Adapter 12V	12V, 2.5A Output Power, AC/DC Adapter Input Range 100VAC-230VAC, Plug Standard 2.1/5.5mm or better	10
3.	Cell AA	AA Alkaline battery, Pencil cell 1.5V, 2500mAh	12
4.	Cell AAA	AAA Alkaline battery, Pencil cell 1.5V, 750mAh	12
5.	RTC Cell	Model CR2032, 3V, Coin Cell	24
6.	Shrink Sleeve	Complete Roll, Raychem, Size: 1mm	01
7.	Shrink Sleeve	Complete Roll, Raychem, Size: 2mm	01
8.	Shrink Sleeve	10 meter Length, Raychem, Size: 3mm	01
9.	Shrink Sleeve	10 meter Length, Raychem, Size: 4mm	01
10.	Shrink Sleeve	5 meter length, Raychem, Size: 6mm	01
11.	Insulation Tape	Color: Black, Electrical Insulation Tape, Size: 15mmx7m	12
12.	Insulation Tape	Color: Red, Electrical Insulation Tape, Size: 15mmx7m	12
13.	Insulation Tape	Color: Grey, Electrical Insulation Tape, Size:15mmx7m	12
14.	Wire Cutter	Size: 4 inch, Copper Cable Cutter	02
15.	Wire Cutter	Size: 6 Inch, Copper Cable Cutter	02
16.	Thimble Crimping Tool	8 inch to 10 inch, Crimping Range: 16-240mm ² , Stroke 18mm, Material: Steel	02
17.	Voltage Tester screwdriver	Thin Tip, Standard Quality, Range 80V- 250V	12
18.	Hammer	Type: Machinist, Size: 12 inches, Material: Steel	01
19.	Torch Light	Flash Light, Rechargeable, 250-500 Lumens	02
20.	Jumper Wires	Hole to hole, Length: 20cm	100
21.	Jumper Wires	Hole to pin, Length: 20cm	100
22.	Jumper Wires	Pin to pin, Length: 20cm	100

23.	Tweezer Set	Pieces: 6-10 Different Tip Size for SMD components and IC Holding	01
24.	Cable Ties Packet	Size: 6 inches	02
25.	Cable Ties Packet	Size: 8 inches	02
26.	Cable Ties Packet	Size: 10 inches	02
27.	Fast Blow Fuses	Rating: 100mA, 250V, Size: 5x20mm, Fast Blow, Glass	200
28.	Fast Blow Fuses	Rating: 300mA, 250V, Size: 5x20mm, Fast Blow, Glass	200
29.	Fast Blow Fuses	Rating: 600mA, 250V, Size: 5x20mm, Fast Blow, Glass	200
30.	Fast Blow Fuses	Rating: 1A, 250V, Size: 5x20mm, Fast Blow, Glass	200
31.	Fast Blow Fuses	Rating: 3A, 250V, Size: 5x20mm, Fast Blow, Glass	100
32.	Fast Blow Fuses	Rating: 5A, 250V, Size: 5x20mm, Fast Blow, Glass	50
33.	DIN Rail Fusible Terminal Block	Size: 4mm ² , Strip Length: 9.5mm, Rating: 6.5A	1000
34.	Socket Torque Wrench Kit	10+ Pieces, Connecting Rod, Material: Steel	01
35.	Copper Wire 30 meter Roll	Color: Red, Diameter: 0.75mm, Material: Pure Copper	06
36.	Copper Wire 30 meter Roll	Color: Black, Diameter: 0.75mm, Material: Pure Copper	06
37.	Copper Wire 30 meter Roll	Color: Yellow, Diameter: 0.75mm, Material: Pure Copper	03
38.	Copper Wire 30 meter Roll	Color: Green, Diameter: 0.75mm, Material: Pure Copper	03
39.	Copper Wire 30 meter Roll	Color: Grey, Diameter: 0.75mm, Material: Pure Copper	02
40.	Copper Wire 30 meter Roll	Color: Brown, Diameter: 0.75mm, Material: Pure Copper	02
41.	2 Core Wire 30-40 meter Roll	Material: Pure Copper, Diameter: 0.75mm ² flexible wire	02
42.	Wire Thimble	I Type, Size 1mm, Best Quality, Blue, Red, Yellow Color	1000
43.	Wire Thimble	I Type, Size 1.5mm, Best Quality, Any Color	100
44.	Wire Thimble	I Type, Size 2mm, Best Quality, Any Color	100
45.	Wire Thimble	U Type, Size 1mm, Best Quality, Blue, Red, Yellow Color	1000
46.	Wire Thimble	U Type, Size 1.5mm, Best Quality, Any Color	100
47.	Wire Thimble	U Type, Size 2mm, Best Quality, Any Color	100

48.	Safety Glove Pair	Electrical Safety, Size: Large, Thin Quality, Range: 500V	05
49.	Wire Tags Packet	ABC...WYZ, For 1mm Sized Wire	05
50.	Wire Tags Packet	ABC...WYZ, For 1.5mm Sized Wire	01
51.	Wire Tags Packet	0,1....8,9, For 1mm Sized Wire	05
52.	Bench Vice	Size 4-6 inches, Portable, material: Steel, Maximum clamping force 600Kg	02
53.	DIN Rail Mounting Socket	3 Pole, DIN Rail Mountable, Best Quality	10
54.	Hard Tape Roll	PVC, Length: 3-5m, Standard Width, Color: Black	05
55.	Drill Machine	Power: 600W to 1000W, No load Speed: 2000-11000rpm, Hammer Powerful, Operating Voltages: 110V to 250V	01
56.	Drill Bits	Multiple Sizes, For Concrete Hole, Standard Length	12
57.	Drill Bits	Multiple Sizes, For Steel Hole, Standard Length	12
58.	Drill Bits	Multiple Sizes, For Wood Hole, Standard Length	12
59.	Programming Data Cable	Android, Type B, 1 Meter Length	10
60.	Programing Data Cable	Android, Type B mini, 1 Meter Length	05
61.	Samad Bond	Minimum 200ml	02
62.	USB 3.1	Capacity 32GB, 3.1 Model,	05
63.	Digital Measuring Tape	Laser Based, Pocket Size, Minimum Measuring Range 50 meter,	02
64.	Elfi	Elfi Solvent, Best for Plastic, Iron and Wood	12
65.	Glue Gun Sticks	Silicon, Transparent, Length: 300mm, Diameter: 11mm	20
66.	Component Box	Minimum 20 Portions, Portable, [For SMD and ICs}	01
67.	Component Box	Minimum 30 Portions, Portable, Plastic [For Resistors and Capacitors]	02
68.	Component Box	8-12 Portions, Portable, Transparent, [For Small components i.e. LED, Push Buttons, Nails etc.]	02
69.	Screwdriver Set Multifunction	Minimum 38 In 1 Kit With Different Tip	01
70.	Temperature Gun	Non-Contact, Infrared, digital, Thermal Gun, Accuracy: +-2%, Resolution 0.1°, Measuring Range: -32~380°C(-26~716°F) / -32~500°C(-26~932°F)	01
71.	Wire/Cable Holding Stand	Standard Size, Made Of Steel, Minimum Capacity 50 Cables	01

72.	Copper Wire Roll Single Core	Size 3/0.029, Length: 90 meter, Material: Pure Copper and PVC	02
73.	Digital Sound Meter	Measuring Audio Level: 30~130dB, Model UT351, LCD Display, Manual/Auto Range selection	01
74.	Ethernet Cable Roll	CAT-5, Frequency bandwidth 100MHz, Twisted Pair, Color Blue Minimum 90 meter length	01
75.	Paper Tape Role	24mm, Cotton Paper substrate, White	10
76.	Double Tape Role	Both Side Adhesive, Best Quality, White	10
77.	Transparent Tape Roll	12-24mm, Best Quality, Standard Length	10
78.	Nose Plier	4-6 Inches, Best Quality, Non-corrosive	02
79.	Wire Stripper	Durable, Best Quality Tool, Less force required to peel wire, Best for peeling different size of wires	03
80.	Flexible Pipe	Diameter: 20mm, :Length: Minimum 20 meters , PVC, For Electrical Fitting, Grey	03
81.	Flexible Pipe	Diameter: 10mm, :Length: Minimum 20 meters , PVC, For Electrical Fitting, Grey	03
82.	Tool Box	Height 4-6' inches, For Wrenches, Screwdriver, Plier and Cutter etc.	02
83.	Electrical Multi Plug	2 core to 3 core converter, Best Quality, Multipurpose	10
84.	Extension Cable	Length: 3 meters, 4-5 socket with on/off Switch and Led Light	02
85.	Extension Cable	Length: 5 meters, 4-5 socket with on/off Switch and Led Light	02
86.	Charged Batteries	9V, Durable, High Power, 400-600 mAh capacity	12
87.	Switch 2 PIN Plug	5-10A rating, Best Quality material, round pins.	10
88.	Solid PVC Duct	Size: 45mmx45mm, Length: 10 Feet, Material: PVC, Color: White	10
89.	Solid PVC Duct	Size: 45mmx70mm, Length: 10 Feet, Material: PVC, Color: White	10
90.	Paint Brush	Size: 3-4 inches, Plastic Body, High Quality	04
91.	DIN Rail Stopper	4mm ² , Any color, Standard Quality, Model: 43/9.3/35.5	30
92.	Tech Pac Bag	Shoulder bag with 2-3 main portion, side pockets, high quality fabric material,	03
93.	Digital Vernier Caliper	6 inches, Steel material, High Precession	01
94.	Digital Vernier Caliper	12 inches, Steel material, Accurate	01
95.	Bulb Holder	Pin based, Standard Size, Quality Material	04

96.	Bulb Holder	E27, Standard Size, Quality Material	04
97.	Bypass Pruner	Best Quality Tool, For Duct And Hard Material Cutting	02
98.	LED Indicating Lamp	Color: Red, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24
99.	LED Indicating Lamp	Color: Green, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24
100.	LED Indicating Lamp	Color: Blue, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24
101.	Electrician Tool Kit with Drill	All in one Electrical Tool Kit with Drill Machine, Plier, Screwdriver, Measuring Tape, Drill Bits and Basic Electrician tools	01
102.	Circuit Breaker	6A, Single Pole, Operating Voltages ~250V, Best Quality	40
103.	Circuit Breaker	20A, Single Pole, Operating Voltages ~250V, Best Quality	10
104.	Circuit Breaker	50A, Single Pole, Operating Voltages ~250V, Best Quality	05
105.	Rechargeable Drill Machine	Wireless Cordless Rechargeable Drill Machine, No Load Speed=0-1350Rpm, Adjustable Torque 1 To 18,100% Pure Copper Winding,Li-ion Dual heavy duty Battery.	01
106.	12V Power Supply DIN Rail Mounting	Input:110-220V, Current:2A DC output: 13.8 V 4.5 A Bat. Charge 13.8 Volt 2.5 A.	05
107.	Magnetic Contactor	Coil voltage: AC 220/240V rms Rated current :50A NO of Pole: 3 Contact type NO	05
108.	LUX Meter	Measuring rang 1-299, 900, Linearity : + - 2 , Display : LCD display with back light, power source: 2-AA size batteries	01
109.	Digital Anemometer	Air velocity rang 1 m/s, to 30 m/s, measurement unit m/s, km/h power supply : 9V battery	01
110.	Measuring Tape	3-4 meter	02
111.	Push Buttons	Red, Rated Voltage:220v, Size 22mm	10
112.	Push Buttons	Green, Rated Voltage:220v, Size 22mm	10
113.	Electric Blower	Rated voltage: 220V ,Rating 500W, 13000r/min of motor speed , air blowing & dust collecting functions	01

114.	Vero Board	Dotted, length 24cm,	06
NOTE:			
i.	One (1) year Parts and Labor warranty for all components on site.		
ii.	The bidder(s) must submit their bids against complete Lot.		
iii.	The bidders should clearly mention Terms and Conditions of service agreements for the supplied hardware equipment after the expiry of initial warranty period.		
iv.	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.		
v.	Please mention the country of origin / manufacturing / assembly of the quoted brand / model.		
vi.	All items must be factory fitted & configured. Vendor / Assembler to provide verification of Serial numbers.		
vii.	Annexure-A/Specifications are duly made, checked and verified by the concerned Technical Team.		

FORMS & OTHER REQUIRED DOCUMENTS

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 No._____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.

Our Proposal shall be binding upon us up to expiration of the validity period of the Proposal, i.e. before the date indicated in _____ of the Proposal Data Sheet.

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 (Original)

(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/Tender Document No. dated (insert date) and our Technical Proposal. Our attached Financial Proposal is for the sum of (insert amount in words and figures). This amount is inclusive of all taxes.

Our Financial Proposal shall be binding upon us 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:

Price Schedule/ Financial Cost Sheet

LOT # 1							
Modular Controllers with Accessories							
Sr. #	Description	Specification	Qty.	Unit Rate (Excl. Taxes) Rs	Total Taxes Rs.	Unit Rate (Incl. all Taxes) Rs.	Total Cost (Incl. all Taxes) Rs.
			(a)	(b)	(c)	d=(b+c)	e=(a×d)
1.	PLC (CPU) with Communication Cables	AC/DC/DC, onboard, I/O: 24 DI 24 V DC: 16 DO 24 V DC, Having High Speed Outputs: 3: 100 kHz Pulse Train Output; Power supply: 100~240VAC Program/data memory 40 KB, Interface: RS 485 (max. 187.5 kbps), Switching frequency: 100 kHz	03				
2.	PLC (CPU) with Communication Cables	Digital Inputs: 24 High speed (200KHz) 6 Points, Medium speed (20KHz) 2 Points, Medium speed (Total 5KHz) 8 points, Medium low Speed (0.47ms) 8 points Digital Outputs: 16 Relay, 1 built-in RS-232 (can be expanded up to 3) 100~240VAC power supply.	04				
3.	Analogue Input Module	8 AI, 0...10V, 0...5V, +/-5 V, +/-2.5 V or 0/4-20 mA; 11 bit + sign (12 bit ADC), Supply voltage: 24 V; -15 / +20 %, Power loss 2W	03				
4.	Analogue Output Module	4 AO, +/-10 V, 11 bit resolution, or 4-20 mA, 11 bit resolution, Supply voltage: 24V Power Loss: 2.7W	03				
5.	Analogue Input/Outputs Module (Combo)	Input point: 4, Output point: 2 Input/output value: -8192~8191 or 0~16383 (14-bit), Bipolar: Voltage: -10~10V or -5~5V Current: -20~20mA or -10~10mA, Unipolar: Voltage: 0~10V or 0~5V Current: 0~20mA or 0~10mA, Power consumption: 24VDC - 15%/+20%, 3.2W max.	03				
6.	RS485 Communication Module for PLC	Integrated protocols: Modbus RTU master: Address area 1 through 49 999 (Standard Modbus addressing) Number of slaves, max. 247; slave numbers 1 through 247, per MODBUS network segment maximum 32 devices, additional repeaters needed to expand the network to	01				

		maximum configuration MODBUS RTU SLAVE: Address area 1 through 49 999 (Standard Modbus addressing) Temperature Range: - 40...+60°C					
7.	HMI	10.1" 1024 x 600 TFT LCD, LED Backlight, Power: 24VDC, COM2 and COM3 RS-485 support MPI 187.5K, Processor: 32-bit RISC 600MHz, Power: 24VDC,I/O Port: USB 2.0 x 1, COM Port: RS232, RS485	03				
8.	HMI	7" 800 x 480 TFT LCD, LED Backlight, Processor: 32 bits RISC Cortex-A8 600MHz, Power: 24VDC, COM2 and COM3 RS-485 support MPI 187.5K, Processor: 32 bits RISC Cortex-A8 600MHz , I/O Port: USB 2.0 x 1, COM Ports: COM1: RS-232 , COM2: RS-485 2W/4W, COM3: RS-485 2W	03				
9.	Servo Motor & Drive	Power: 1 KW Speed:2000 RPM Rated Voltage:220 VAC W/ Break 130 mm flange size 22 mm shaft size	01				
Total Bid Cost							X(i)

Notes to Price Table:

- i.** X(i) will determine the total bid cost against Lot No.1.
- ii.** Prices must be quoted for all components under Lot No.1 as prescribed under given above table.
- iii.** The Hardware/Items quoted must be brand new (verified from the bill of entry) and must be legally imported in Pakistan after paying all taxes.

Total Cost (in words) Rs. _____

Date _____

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.

Price Schedule/ Financial Cost Sheet

LOT # 2							
Air Quality Probe Kit with Accessories							
Sr. #	Description	Specification	Qty.	Unit Rate (Excl. Taxes) Rs	Total Taxes Rs.	Unit Rate (Incl. all Taxes) Rs.	Total Cost (Incl. all Taxes) Rs.
			(a)	(b)	(c)	d=(b+c)	e=(a×d)
1.	Particulate Matter Sensor	Mass concentration:PM1.0, PM2.5, PM4 and PM10 Number concentration:PM0.5, PM1.0, PM2.5, PM4 and PM10 Concentration range:1 to 1000 µg/m ³ Concentration resolution:1 µg/m ³ Concentration precision: < ±12 % @ 0 to 100 µg/m ³ < ±15 % @ 100 to 1000 µg/m ³ Response Time:≤ 5 s Working Temperature:-10 to 60 C Working Humidity:0 to 99% Mean Time Failure:≥ 5 Year Interface: UART, I2C Power Supply:4.5 - 5.5 V DC, ≤100mA	05				
2.	Carbon Monoxide Sensor	Measurement Range: 0 - 1000 ppm Response time: < 50s Sensitivity at nA/ppm at 2ppm: 420 - 650 ppm Overgas Maximum limit: 2000 ppm Operating life: > 24 Months Zero drift: < ±150 ppb Sensitivity @ -20°C @ 5ppm: 40 - 70 ppm Sensitivity @ 50°C @ 5ppm: 110 - 125 ppm Temperature range: -30 - 50 °C Pressure range: 80 - 120 kPa Humidity range: 15 - 90 %	04				
3.	Hydrogen Sulfide Sensor	Measurement Range: 0 - 100 ppm Response time: < 90s Sensitivity at nA/ppm at 2ppm: 1450 - 2600 ppm Overgas Maximum limit: 200 ppm Operating life: > 18 Months Zero drift: < ±150 ppb Sensitivity @ -20°C @ 5ppm: 77 - 90 ppm Sensitivity @ 50°C @ 5ppm: 100 - 110 ppm Temperature range: -30 - 50 °C Pressure range: 80 - 120 kPa Humidity range: 15 - 90 %	04				
4.	Sulfur	Measurement Range: 0 - 110	04				

	Dioxide Sensor	ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: 275 – 520 ppm Overgas Maximum limit: at least 200 ppm Operating life: > 24 Months Zero drift: < ±30 ppb Sensitivity @ -20°C @ 5ppm: 70 – 90 ppm or better Sensitivity @ 50°C @ 5ppm: 90 – 110 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %					
5.	Ozone Sensor	Measurement Range: 0 – 25 ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: -225 to -750 ppm Overgas Maximum limit: at least 50 ppm Operating life: > 18 Months Zero drift: 0 – 20 ppb Sensitivity @ -20°C @ 5ppm: 77 – 90 ppm or better Sensitivity @ 50°C @ 5ppm: 95 – 125 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %	04				
6.	Nitrogen Dioxide Sensor	Measurement Range: 0 – 25 ppm or better Response time: < 90s Sensitivity at nA/ppm at 2ppm: -200 to -650 ppm Overgas Maximum limit: at least 50 ppm Operating life: > 18 Months Zero drift: 0 – 20 ppb Sensitivity @ -20°C @ 5ppm: 60 – 80 ppm or better Sensitivity @ 50°C @ 5ppm: 95 – 115 ppm or better Temperature range: -30 – 50 °C Pressure range: 80 – 120 kPa Humidity range: 15 – 90 %	04				
7.	Digital Gas Sensor Module for Carbon Mono Oxide	Measurement Range: 0 to 900 ppm or better Resolution: 0.1 ppm (1) Zero Accuracy: ± 1 ppm (2) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading or 2 ppm, whichever is greater T90 Response Time: (100 ppm step) < 30 seconds (15 seconds typical) Power Consumption: 1 mW for 1 minute triggered samples 12 mW for continuous sampling 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25± 10C; 60	03				

		<p>± 30% RH) Operating Temperature Range: -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non- condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight: < 2 Ounces</p>					
8.	Digital Gas Sensor Module for Nitrogen Dioxide	<p>Measurement Range: 0 to 5 ppm or better Resolution: 20 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 100 µW in standby mode: 14 mW in measurement mode Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range: -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non- condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight: < 2 Ounces</p>	03				
9.	Digital Gas Sensor Module for Sulphur Dioxide	<p>Measurement Range: 0 to 20 ppm Resolution: 50 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 1 mW for 1 minute triggered samples: 12 mW for continuous sampling: 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25± 10C; 60 ± 30% RH) Operating Temperature Range -20 to 40 °C (-30 to 55 °C intermittent) Operating Humidity Range: 15 to 95% (0 to 100% non- condensing intermittent) Mechanical Dimensions: 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces</p>	03				
10.	Digital Gas Sensor Module for Ozone	<p>Measurement Range: 0 to 5 ppm Resolution: 20 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < ± 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power</p>	03				

		Consumption: 100 μ W in standby mode 14 mW in measurement mode Expected Operating Life > 5 years (10 years @ 25 \pm 10C; 60 \pm 30% RH) Operating Temperature Range -20 to 40 $^{\circ}$ C (-30 to 55 $^{\circ}$ C intermittent) Operating Humidity Range 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces					
11.	Digital Gas Sensor Module for Hydrogen Sulphide	Measurement Range: 0 to 10 ppm Resolution: 10 ppb (1) Measurement Accuracy: 15% of reading Measurement Repeatability: (2) < \pm 3% of reading T90 Response Time: (100 ppm step) < 30 seconds Power Consumption: 1 mW for 1 minute triggered samples 12 mW for continuous sampling 5, 10 30, 60 second intervals Expected Operating Life > 5 years (10 years @ 25 \pm 10C; 60 \pm 30% RH) Operating Temperature Range -20 to 40 $^{\circ}$ C (-30 to 55 $^{\circ}$ C intermittent) Operating Humidity Range 15 to 95% (0 to 100% non-condensing intermittent) Mechanical Dimensions 1.75 x 0.82 x 0.35 in. (44.5 x 20.8 x 8.9 mm) Weight < 2 Ounces	03				
12.	SparkFun Atmospheric Sensor Breakout	Measures atmospheric pressure : 30kPa to 110kPa Breakout:3.3v SPI interface Measurements < 1mA Idles < 5 μ A Breakout Board pins: 10 Operation Voltage: 3.3V I ² C & SPI Communications Interface Temp Range: -40C to 85C Humidity Range: 0 - 100% RH, \pm 3% from 20-80% Pressure Range: 30,000Pa to 110,000Pa, relative accuracy of 12Pa, absolute accuracy of 100Pa Altitude Range: 0 to 30,000 ft. (9.2 km), relative accuracy of 3.3 ft. (1 m) at sea level, 6.6 (2 m) at 30,000 ft. Incredibly Small	20				
Total Bid Cost							X(ii)

Notes to Price Table:

- i.** X(ii) will determine the total bid cost against Lot No.2.
- ii.** Prices must be quoted for all components under Lot No.2 as prescribed under given above table.
- iv.** The Hardware / Items quoted must be brand new (verified from the bill of entry) and must be legally

imported in Pakistan after paying all taxes.

Total Cost (in words) Rs. _____

Date _____

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.

Price Schedule/ Financial Cost Sheet

LOT # 3							
Power Meters							
Sr. #	Description	Specification	Qty.	Unit Rate (Excl. Taxes) Rs	Total Taxes Rs.	Unit Rate (Incl. all Taxes) Rs.	Total Cost (Incl. all Taxes) Rs.
			(a)	(b)	(c)	d=(b+c)	e=(a×d)
1.	Energy Meters	Phase-Neutral 290V L-N Line-Line 500V L-L VAC RMS Rated for 5-300V and without CT Min. Current 5A,with minimum 1% accuracy for both voltage and current with an insight of power utilization Offer RS485 or LAN Communication Front Display: LCD with Backlight Size: 96 x 96mm	10				
2.	Energy Meters	Phase-Neutral 290V L-N Line-Line 500V L-L VAC RMS Nominal input current: 5A / 1A AC RMS User selectable CT Secondary 1A/5A User selectable PT Secondary from 100 VLL to 500 VLL, PF measurement range (0.5 Lead ... 1 ... 0.5 Lag) and MODBUS (RS485) Communication, Interference Emission IEC 61326 - 1:2005, Class A	10				
3.	Phase Failure Relays	Main Voltage: 3 x 380 Power Supply: 185-250V 3 Phase and Neutral Protection	10				
Total Bid Cost							X(iii)

Notes to Price Table:

- i.** X(iii) will determine the total bid cost against Lot No.3.
- ii.** Prices must be quoted for all components under Lot No.3 as prescribed under given above table.
- iii.** The Hardware / Items quoted must be brand new (verified from the bill of entry) and must be legally imported in Pakistan after paying all taxes.

Total Cost (in words) Rs. _____

Date _____

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.

Price Schedule/ Financial Cost Sheet

LOT # 4							
Miscellaneous Components for Installation							
Sr.#	Description	Specification	Qty.	Unit Rate (Excl. Taxes) Rs	Total Taxes Rs.	Unit Rate (Incl. all Taxes) Rs.	Total Cost (Incl. all Taxes) Rs.
			(a)	(b)	(c)	d=(b+c)	e=(a×d)
1.	Adapter 5V	5V, 2A Output Power, AC/DC Adapter Input Range 100VAC-230VAC, Plug Standard 2.1/5.5mm or better	10				
2.	Adapter 12V	12V, 2.5A Output Power, AC/DC Adapter Input Range 100VAC-230VAC, Plug Standard 2.1/5.5mm or better	10				
3.	Cell AA	AA Alkaline battery, Pencil cell 1.5V, 250mAh	12				
4.	Cell AAA	AAA Alkaline battery, Pencil cell 1.5V, 750mAh	12				
5.	RTC Cell	Model CR2032, 3V, Coin Cell	24				
6.	Shrink Sleeve	Complete Roll, Raychem, Size: 1mm	01				
7.	Shrink Sleeve	Complete Roll, Raychem, Size: 2mm	01				
8.	Shrink Sleeve	10 meter Length, Raychem, Size: 3mm	01				
9.	Shrink Sleeve	10 meter Length, Raychem, Size: 4mm	01				
10.	Shrink Sleeve	5 meter length, Raychem, Size: 6mm	01				
11.	Insulation Tape	Color: Black, Electrical Insulation Tape, Size: 15mmx7m	12				
12.	Insulation Tape	Color: Red, Electrical Insulation Tape, Size: 15mmx7m	12				
13.	Insulation Tape	Color: Grey, Electrical Insulation Tape, Size:15mmx7m	12				
14.	Wire Cutter	Size: 4 inch, Copper Cable Cutter	02				
15.	Wire Cutter	Size: 6 Inch, Copper Cable Cutter	02				
16.	Thimble Crimping Tool	8 inch to 10 inch, Crimping Range: 16-240mm ² , Stroke 18mm, Material: Steel	02				
17.	Voltage Tester screwdriver	Thin Tip, Standard Quality, Range 80V- 250V	12				
18.	Hammer	Type: Machinist, Size: 12 inches, Material: Steel	01				
19.	Torch Light	Flash Light, Rechargeable, 250-500 Lumens	02				

20.	Jumper Wires	Hole to hole, Length: 20cm	100				
21.	Jumper Wires	Hole to pin, Length: 20cm	100				
22.	Jumper Wires	Pin to pin, Length: 20cm	100				
23.	Tweezer Set	Pieces: 6-10 Different Tip Size for SMD components and IC Holding	01				
24.	Cable Ties Packet	Size: 6 inches	02				
25.	Cable Ties Packet	Size: 8 inches	02				
26.	Cable Ties Packet	Size: 10 inches	02				
27.	Fast Blow Fuses	Rating: 100mA, 250V, Size: 5x20mm, Fast Blow, Glass	200				
28.	Fast Blow Fuses	Rating: 300mA, 250V, Size: 5x20mm, Fast Blow, Glass	200				
29.	Fast Blow Fuses	Rating: 600mA, 250V, Size: 5x20mm, Fast Blow, Glass	200				
30.	Fast Blow Fuses	Rating: 1A, 250V, Size: 5x20mm, Fast Blow, Glass	200				
31.	Fast Blow Fuses	Rating: 3A, 250V, Size: 5x20mm, Fast Blow, Glass	100				
32.	Fast Blow Fuses	Rating: 5A, 250V, Size: 5x20mm, Fast Blow, Glass	50				
33.	DIN Rail Fusible Terminal Block	Size: 4mm ² , Strip Length: 9.5mm, Rating: 6.5A	1000				
34.	Socket Torque Wrench Kit	10+ Pieces, Connecting Rod, Material: Steel	01				
35.	Copper Wire 30 meter Roll	Color: Red, Diameter: 0.75mm, Material: Pure Copper	06				
36.	Copper Wire 30 meter Roll	Color: Black, Diameter: 0.75mm, Material: Pure Copper	06				
37.	Copper Wire 30 meter Roll	Color: Yellow, Diameter: 0.75mm, Material: Pure Copper	03				
38.	Copper Wire 30 meter Roll	Color: Green, Diameter: 0.75mm, Material: Pure Copper	03				
39.	Copper Wire 30 meter Roll	Color: Grey, Diameter: 0.75mm, Material: Pure Copper	02				
40.	Copper Wire 30 meter Roll	Color: Brown, Diameter: 0.75mm, Material: Pure Copper	02				
41.	2 Core Wire 30-40 meter Roll	Material: Pure Copper, Diameter: 0.75mm ² flexible wire	02				
42.	Wire Thimble	I Type, Size 1mm, Best Quality, Blue, Red, Yellow	1000				

		Color					
43.	Wire Thimble	I Type, Size 1.5mm, Best Quality, Any Color	100				
44.	Wire Thimble	I Type, Size 2mm, Best Quality, Any Color	100				
45.	Wire Thimble	U Type, Size 1mm, Best Quality, Blue, Red, Yellow Color	1000				
46.	Wire Thimble	U Type, Size 1.5mm, Best Quality, Any Color	100				
47.	Wire Thimble	U Type, Size 2mm, Best Quality, Any Color	100				
48.	Safety Glove Pair	Electrical Safety, Size: Large, Thin Quality, Range: 500V	05				
49.	Wire Tags Packet	ABC...WYZ, For 1mm Sized Wire	05				
50.	Wire Tags Packet	ABC...WYZ, For 1.5mm Sized Wire	01				
51.	Wire Tags Packet	0,1....8,9, For 1mm Sized Wire	05				
52.	Bench Vice	Size 4-6 inches, Portable, material: Steel, Maximum clamping force 600Kg	02				
53.	DIN Rail Mounting Socket	3 Pole, DIN Rail Mountable, Best Quality	10				
54.	Hard Tape Roll	PVC, Length: 3-5m, Standard Width, Color: Black	05				
55.	Drill Machine	Power: 600W to 1000W, No load Speed: 2000-11000rpm, Hammer Powerful, Operating Voltages: 110V to 250V	01				
56.	Drill Bits	Multiple Sizes, For Concrete Hole, Standard Length	12				
57.	Drill Bits	Multiple Sizes, For Steel Hole, Standard Length	12				
58.	Drill Bits	Multiple Sizes, For Wood Hole, Standard Length	12				
59.	Programming Data Cable	Android, Type B, 1 Meter Length	10				
60.	Programming Data Cable	Android, Type B mini, 1 Meter Length	05				
61.	Samad Bond	Minimum 200ml	02				
62.	USB 3.1	Capacity 32GB, 3.1 Model,	05				
63.	Digital Measuring Tape	Laser Based, Pocket Size, Minimum Measuring Range 50 meter,	02				
64.	Elfi	Elfi Solvent, Best for Plastic, Iron and Wood	12				
65.	Glue Gun Sticks	Silicon, Transparent, Length: 300mm, Diameter: 11mm	20				
66.	Component Box	Minimum 20 Portions, Portable, [For SMD and ICs}	01				
67.	Component	Minimum 30 Portions,	02				

	Box	Portable, Plastic [For Resistors and Capacitors]					
68.	Component Box	8-12 Portions, Portable, Transparent, [For Small components i.e. LED, Push Buttons, Nails etc.]	02				
69.	Screwdriver Set Multifunction	Minimum 38 In 1 Kit With Different Tip	01				
70.	Temperature Gun	Non-Contact, Infrared, digital, Thermal Gun, Accuracy: +-2%, Resolution 0.1°, Measuring Range: -32~380°C(-26~716°F) / -32~500°C(-26~932°F)	01				
71.	Wire/Cable Holding Stand	Standard Size, Made Of Steel, Minimum Capacity 50 Cables	01				
72.	Copper Wire Roll Single Core	Size 3/0.029, Length: 90 meter, Material: Pure Copper and PVC	02				
73.	Digital Sound Meter	Measuring Audio Level: 30~130dB, Model UT351, LCD Display, Manual/Auto Range selection	01				
74.	Ethernet Cable Roll	CAT-5, Frequency bandwidth 100MHz, Twisted Pair, Color Blue Minimum 90 meter length	01				
75.	Paper Tape Role	24mm, Cotton Paper substrate, White	10				
76.	Double Tape Role	Both Side Adhesive, Best Quality, White	10				
77.	Transparent Tape Roll	12-24mm, Best Quality, Standard Length	10				
78.	Nose Plier	4-6 Inches, Best Quality, Non-corrosive	02				
79.	Wire Stripper	Durable, Best Quality Tool, Less force required to peel wire, Best for peeling different size of wires	03				
80.	Flexible Pipe	Diameter: 20mm, :Length: Minimum 20 meters , PVC, For Electrical Fitting, Grey	03				
81.	Flexible Pipe	Diameter: 10mm, :Length: Minimum 20 meters , PVC, For Electrical Fitting, Grey	03				
82.	Tool Box	Height 4-6' inches, For Wrenches, Screwdriver, Plier and Cutter etc.	02				
83.	Electrical Multi Plug	2 core to 3 core converter, Best Quality, Multipurpose	10				
84.	Extension Cable	Length: 3 meters, 4-5 socket with on/off Switch and Led Light	02				
85.	Extension Cable	Length: 5 meters, 4-5 socket with on/off Switch and Led Light	02				

86.	Charged Batteries	9V, Durable, High Power, 400-600 mAh capacity	12				
87.	Switch 2 PIN Plug	5-10A rating, Best Quality material, round pins.	10				
88.	Solid PVC Duct	Size: 45mmx45mm, Length: 10 Feet, Material: PVC, Color: White	10				
89.	Solid PVC Duct	Size: 45mmx70mm, Length: 10 Feet, Material: PVC, Color: White	10				
90.	Paint Brush	Size: 3-4 inches, Plastic Body, High Quality	04				
91.	DIN Rail Stopper	4mm ² , Any color, Standard Quality, Model: 43/9.3/35.5	30				
92.	Tech Pac Bag	Shoulder bag with 2-3 main portion, side pockets, high quality fabric material,	03				
93.	Digital Vernier Caliper	6 inches, Steel material, High Precision	01				
94.	Digital Vernier Caliper	12 inches, Steel material, Accurate	01				
95.	Bulb Holder	Pin based, Standard Size, Quality Material	04				
96.	Bulb Holder	E27, Standard Size, Quality Material	04				
97.	Bypass Pruner	Best Quality Tool, For Duct And Hard Material Cutting	02				
98.	LED Indicating Lamp	Color: Red, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24				
99.	LED Indicating Lamp	Color: Green, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24				
100.	LED Indicating Lamp	Color: Blue, Plastic Pilot, Applicable Standard UL508, IEC 60947, CSA 22.2, Screw Connection, Dielectric Test: 2.5KV, Operating Range: 20V-240V AC Current Consumption: 15-20mA	24				
101.	Electrician Tool Kit with Drill	All in one Electrical Tool Kit with Drill Machine, Plier, Screwdriver, Measuring Tape, Drill Bits and Basic Electrician tools	01				
102.	Circuit Breaker	6A, Single Pole, Operating Voltages ~250V, Best Quality	40				

103.	Circuit Breaker	20A, Single Pole, Operating Voltages ~250V, Best Quality	10				
104.	Circuit Breaker	50A, Single Pole, Operating Voltages ~250V, Best Quality	05				
105.	Rechargeable Drill Machine	Wireless Cordless Rechargeable Drill Machine, No Load Speed=0-1350Rpm, Adjustable Torque 1 To 18,100% Pure Copper Winding,Li-ion Dual heavy duty Battery.	01				
106.	12V Power Supply DIN Rail Mounting	Input:110-220V, Current:2A DC output: 13.8 V 4.5 A Bat. Charge 13.8 Volt 2.5 A.	05				
107.	Magnetic Contactor	Coil voltage: AC 220/240V rms Rated current :50A NO of Pole: 3 Contact type NO	05				
108.	LUX Meter	Measuring rang 1-299, 900, Linearity : + - 2 , Display : LCD display with back light, power source: 2-AA size batteries	01				
109.	Digital Anemometer	Air velocity rang 1 m/s, to 30 m/s, measurement unit m/s, km/h power supply : 9V battery	01				
110.	Measuring Tape	3-4 meter	02				
111.	Push Buttons	Red, Rated Voltage:220v, Size 22mm	10				
112.	Push Buttons	Green, Rated Voltage:220v, Size 22mm	10				
113.	Electric Blower	Rated voltage: 220V ,Rating 500W, 13000r/min of motor speed , air blowing & dust collecting functions	01				
114.	Vero Board	Dotted, length 24cm,	06				
Total Bid Cost							X(iv)

Notes to Price Table:

- i. X(iv) will determine the total bid cost against Lot No.4.
- ii. Prices must be quoted for all components under Lot No.4 as prescribed under given above table.
- iii. The Hardware / Items quoted must be brand new (verified from the bill of entry) and must be legally imported in Pakistan after paying all taxes.

Total Cost (in words) Rs. _____

Date _____

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.

Authorized Signatures with Official Seal

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.
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Authorized Signatures with Official Seal

INSTRUCTION FOR PREPARATION OF POWER OF ATTORNEY

- 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 are 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:

(To be submitted on legal stamp paper)

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.

[The Seller/Supplier/Contractor] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with the Purchaser and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty / support.

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

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

Signature & Stamp

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

_____ Notary Public

BID SECURITY FORM

WHEREAS [Name and Address of the Contractor] (hereinafter called "the Contractor") has submitted Tender against Tender Name _____, Tender No._____, 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 _____ or until furnishing of the, whichever is later.

Date this _____ day of 20_____.

GUARANTOR

Signature _____

CNIC # _____

Name _____

Designation _____

Address _____

PERFORMANCE SECURITY

Issuing Authority:
Date of Issuance:
Date of Expiry:
Claim Lodgment Date: (Must be one month later than the expiry 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. _____, Tender No. _____ (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 twenty (20) days of the receipt of the Acceptance Letter (Letter of Acceptance) from the Purchaser, in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per this format, 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 fulfil 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 / support period 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 _____

	<p>CASH DEPOSIT SLIP For Information Technology University Punjab</p>	No. _____ Date: _____
Deposited in:		<p>Bank's Copy</p>
 The Bank of Punjab, ASTP Branch (0320) ASTP, Lahore.		A/C # 658004546460034
Applicant Information:		
Applicant's Name: _____ Particulars / Tender Title: _____ Tender # <input type="text"/> LOT # <input type="text"/> Other <input type="text"/>		
Transaction Detail:		
Amount In Figures: <input type="text" value="Rs. 1000/-"/> In Words: <u>Rupees One Thousand only</u>		
	<p>CASH DEPOSIT SLIP For Information Technology University Punjab</p>	No. _____ Date: _____
Deposited in:		<p>ITU Copy</p>
 The Bank of Punjab, ASTP Branch (0320) ASTP, Lahore.		A/C # 658004546460034
Applicant Information:		
Applicant's Name: _____ Particulars / Tender Title: _____ Tender # <input type="text"/> LOT # <input type="text"/> Other <input type="text"/>		
Transaction Detail:		
Amount In Figures: <input type="text" value="Rs. 1000/-"/> In Words: <u>Rupees One Thousand only</u>		
	<p>CASH DEPOSIT SLIP For Information Technology University Punjab</p>	No. _____ Date: _____
Deposited in:		<p>Customers's Copy</p>
 The Bank of Punjab, ASTP Branch (0320) ASTP, Lahore.		A/C # 658004546460034
Applicant Information:		
Applicant's Name: _____ Particulars / Tender Title: _____ Tender # <input type="text"/> LOT # <input type="text"/> Other <input type="text"/>		
Transaction Detail:		
Amount In Figures: <input type="text" value="Rs. 1000/-"/> In Words: <u>Rupees One Thousand only</u>		