



PUNJAB INFORMATION TECHNOLOGY BOARD (PITB)

INVITATION TO BID

Punjab Information Technology Board (PITB), Government of the Punjab, invites bids for Procurement of Maintenance Materials (Electrical, Mechanical, HVAC, Civil & IT) for Operations and Maintenance of "ASTP Building".

2. The procurement shall be completed in accordance with the Punjab Procurement Rules 2014, on Single Stage - Two Envelope Bidding Procedure.
3. The tender document is available in the office of the undersigned & the same may be obtained subject to the payment of cost of printing and provision of the document which is Rs. 1000/-. Tender Document is also available at www.pitb.gov.pk and www.ppra.punjab.gov.pk and may be downloaded free of cost.
4. A single package containing Technical and Financial separate Bids, duly completed, signed, stamped, sealed and in complete conformity with Tender Document should be dropped, in the Tender Box No.2, placed at Reception of the PITB office, 13th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore, no later than 1500 Hours, within 15-days of first publication of this advertisement in national newspapers or uploading of relevant Tender Document on PITB & PPRA websites, whichever is later. The bids shall be opened at 1530 hours on last date for submission of bids, as per PPRA Rules, 2014.
5. All bids must be accompanied by Bid Security in complete conformity of the clause "Bid Security" of the prescribed tender document. Bids which are incomplete, not sealed, not signed and stamped, late or submitted by other than specified mode will not be considered.
6. Income/Sales tax registration certificate and other documents as mentioned in Tender Document must accompany the bids.

Note: PITB management 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.

Director (Development & Procurement) (IPL-11253)
Punjab Information Technology Board

13th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road Lahore.
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Tender Document

Tender No. 128092016-1

PROCUREMENT OF MAINTENANCE MATERIALS (ELECTRICAL, MECHANICAL, CIVIL & IT) FOR OPERATIONS & MAINTENANCE OF “ASTP BUILDING”



Punjab Information Technology Board (PITB)

13th Floor, Arfa Software Technology Park (ASTP),

346-B, Ferozepur Road, Lahore, Pakistan

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Table of Contents

1.	Invitation to Bid.....	5
2.	Bidding Details (Instructions to Bidders)	6
	TERMS AND CONDITIONS OF THE TENDER	8
3.	Definitions.....	8
4.	Headings and Titles	9
5.	Notice.....	9
6.	Tender Scope	9
7.	Tender Eligibility/Qualification Criteria	9
8.	Tender Cost.....	10
9.	Joint Venture / Consortium	10
10.	Examination of the Tender Document	10
11.	Clarification of the Tender Document	10
12.	Amendment of the Tender Document	10
13.	Preparation / Submission of Tender	10
14.	Tender Price	13
15.	Bid Security (Earnest Money)	14
16.	Tender Validity	15
17.	Modification / Withdrawal of the Tender	15
18.	Opening of the Tender.....	15
19.	Clarification of the Tender	15
20.	Determination of Responsiveness of the Bid (Tender).....	16
21.	Correction of errors / Amendment of Tender	16
22.	TECHNICAL EVALUATION CRITERIA	16
23.	FINANCIAL PROPOSAL EVALUATION.....	17
24.	Rejection / Acceptance of the Bid	17
25.	Award Criteria	18
26.	Acceptance Letter	18
27.	Performance Security	19
28.	Redressal of grievances by the procuring agency	19
	TERMS & CONDITIONS OF THE CONTRACT	20
29.	Contract	24
30.	Contract Duration	24
31.	Contract Documents and Information.....	24
32.	Contract Language	24
33.	Standards	24
34.	Commercial Availability	24
35.	Patent Right	24
36.	Execution Schedule	24
37.	Packing	25
38.	Insurance.....	25
39.	Labeling.....	25
40.	Delivery	25
41.	Installation and Implementation	25
42.	Site Preparation	26
43.	Safety	26
44.	Test Equipment and Tools	26
45.	Spare Parts and Support	26

46.	Inspection and Testing.....	27
47.	Taking-Over Certificate	27
48.	Warranty	27
49.	Ownership of Goods and Replaced Components	28
50.	Defects Liability Expiry Certificate	28
51.	Payment	28
52.	Price	29
53.	Contract Amendment	29
54.	Assignment / Subcontract.....	29
55.	Extensions in time for performance of obligations under the Contract	29
56.	Liquidated Damages.....	29
57.	Blacklisting	29
58.	Forfeiture of Performance Security	30
59.	Termination for Default	30
60.	Termination for Insolvency	30
61.	Termination for Convenience	30
62.	Force Majeure	31
63.	Dispute Resolution.....	31
64.	Statutes and Regulations	31
65.	Taxes and Duties	31
66.	Contract Cost	31
67.	The Client	32
68.	Authorized Representative	32
69.	Waiver	32
70.	Training	32
71.	Documentation	32
72.	Special Stipulations	33
	ANNEXURE-B.....	68
	ANNEXURE-C.....	69
	ANNEXURE-D.....	70
	ANNEXURE-E.....	71
	ANNEXURE-G	74
	ANNEXURE-H	75

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.

Applicability of Punjab Procurement Rules, 2014

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

1. Invitation to Bid

1.1 PPRA Rules to be followed

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

[http://ppra.punjab.gov.pk/sites/ppra.pitb.gov.pk/files/Final%20Notified%20PPR-2014%20\(ammended%20upto%2006.01.2016\).pdf](http://ppra.punjab.gov.pk/sites/ppra.pitb.gov.pk/files/Final%20Notified%20PPR-2014%20(ammended%20upto%2006.01.2016).pdf)

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(1&2), this Tender is being placed online at PPRA's website, as well as being advertised in print media.

As per Rule 12(2), this Tender is also placed online at the website of Purchaser. The tender document is available in the office of Punjab Information Technology Board, 13th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore & the same may be obtained subject to the payment of cost of printing and provision of the document which is Rs. 1000/-. Tender Document is also available at www.pitb.gov.pk and www.ppra.punjab.gov.pk and may be downloaded free of cost.

1.3 Type of Open Competitive Bidding

As per Rule 38(2)(a), 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 the 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 part of Financial bid and as per provisions of the clause “Bid Security” of this document in favor of **“Punjab Information Technology Board”**. The complete bids as per required under this tender document must be delivered into the Tender Box No.2 placed at reception of Punjab Information Technology Board, not later than 1500 hours on last date of submission of bids i.e. **12th October, 2016**, late bids shall not be considered. The Technical bids shall be publicly opened in the Committee Room of Punjab Information Technology Board, 13th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore, at 1530 hours on **12th October, 2016**. 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 materials/Goods must be received in writing to the Purchaser till **3rd October, 2016**. Any query received after said date shall not be entertained. All queries shall be responded to within due time. PITB may host a Q&A session, if required, at PITB premises (13th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore). All Bidders shall be informed of the date and time in advance.

The bidder must submit bid on the basis of complete items against each Lot. Failure to meet this condition will cause disqualification of the bidder. The bidder shall submit bids which comply with the Bidding Document. Alternative bids and options 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 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:

Electrical

Primary Contact for LOT-1 ~ 8

Irfan Iqbal
Manager Electrical
0344-4024340
irfan.iqbal@astp.punjab.gov.pk

Secondary Contact for LOT-1 ~ 8

Waheed Imran Virk
Electrical Supervisor
0300-4511758
waheed.virk@astp.punjab.gov.pk

Mechanical & HVAC

Primary Contact for LOT- 13 ~ 18

Ashfaq Ahmad
Manager Mechanical & HVAC
0333-4345502
ashfaq.ahmad@astp.punjab.gov.pk

Secondary Contact for LOT-13 ~18

Nayyer Tanvir
Mechanical & HVAC Supervisor
0331-4438445
nayyer.tanvir@astp.punjab.gov.pk

IT

Primary Contact for LOT-19 ~ 34

Muzaffar Abbas
Manager Networks
0344-4949555
muzaffar.abbas@pitb.gov.pk

Secondary Contact for LOT-19 ~ 34

Danish Ahmad
Assistant Manager
0333-4654564
awais.arshad@astp.punjab.gov.pk

Civil

Primary Contact for LOT-9 ~12

Pervaiz Abid
Manager Civil Works
0333-4291182
pervaiz.abid@astp.punjab.gov.pk

Secondary Contact for LOT-9 ~12

Abid Habib Malik
Civil Engineer
0333-4403087
abid.malik@astp.punjab.gov.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 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" mean the interested Firm/Company/Supplier/Distributors that may provide or provides the materials mentioned 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, defects and damage in Goods and Services provided, under the Contract.
- 3.14 "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars, revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 3.15 "Goods" means hardware / consumables and/or other materials which the Contractor is required to supply to the Purchaser under the Contract against each relevant Lot.
- 3.16 "Person" includes individual, association of persons, firm, company, corporation, institution and organization, etc., having legal capacity.
- 3.17 "Prescribed" means prescribed in the Tender Document.
- 3.18 "Purchaser" means the Punjab Information Technology Board (PITB) or any other person for the time being or from time to time duly appointed in writing by the Purchaser to act as Purchaser for the purposes of the Contract.
- 3.19 "Origin" shall be considered to be the place where the Goods are produced or from where the Services are provided. Goods are produced when, through manufacturing, processing or assembling of components, a commercially recognized product results that is substantially

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

- 3.20 "Services" means installation, configuration, deployment, commissioning, testing, training, support, after sale service, etc. of Goods and other such obligations which the Contractor is required to provide to the Purchaser under the Contract.
- 3.21 "Taking-Over Certificate" means the certificate to be issued by the Client to the Contractor, in accordance with the Contract.
- 3.22 "Works" means work to be done by the Contractor under the Contract.
- 3.23 "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 Punjab Information Technology Board (PITB), (hereinafter referred to as "the Purchaser") invites /requests Proposals (hereinafter referred to as "the Tenders") for supply of Maintenance Materials for Electrical, Mechanical, IT & Civil Departments for Operation & Maintenances of Arfa Software Technology Park as detailed in the Annexure A (hereinafter referred as Goods) and for Installation, Commissioning and after sale support of said Goods (herein referred as the services).
- 6.2 The materials/services shall be delivered and deployed at Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.

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;
 - 7.1.2 Must be registered with Tax Authorities as per prevailing latest tax rules (Only those 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);
 - 7.1.4 has submitted bid for complete Lot(s) and relevant bid security against each Lot separately.

- Non-compliance of the same shall cause rejection of the bid;
- 7.1.5 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).
- 7.1.6 Conforms to the clause of "Responsiveness of Bid" given herein this tender document.
- 7.1.7 Goods and Services can only be supplied / sources / routed from "origin" in "eligible" member countries.
- Eligible" is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.
 - "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.

Note: Verifiable documentary proof for all above requirements is a mandatory requirement, noncompliance will lead to disqualification.

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 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.
- 13.3 The Tender shall be filed in / accompanied by the prescribed Forms, Annexes, Schedules, Charts, Drawings, Documents, Brochures, Literature, etc. which shall be typed, completely filled in, stamped and signed by the Tenderer or his Authorized Representative. In case of copies, 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.
- 13.4 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.
- 13.5 Technical Proposal shall comprise the following, **without quoting the price:**
- 13.6 Technical Proposal Form (**Annexure-B**)
- 13.6.1 Undertaking (All terms & conditions and qualifications listed anywhere in this tender document have been satisfactorily vetted) and Affidavit (Integrity Pact) (**Annexure-G&H**)
- 13.6.2 Covering letter duly signed and stamped by authorized representative. (**Annexure-E**)
- 13.6.3 Certificate of Company/Firm Registration/Incorporation under the laws of Pakistan
- 13.6.4 Evidence of eligibility of the Tenderer and the Goods
- 13.6.5 Evidence of conformity of the Goods / the Services to the Tender Document
- 13.6.6 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
- 13.6.7 Technical Brochures / Literature
- 13.6.8 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.
- 13.6.9 Valid Registration Certificate for Income Tax & Sales Tax
- 13.6.10 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 in an envelope duly marked as under:

Original Technical Tender for
Tender Name. [Name of Tender]
Tender No. **128092016-1**
Lot No:

[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 Tender in an envelope duly marked as under:

Duplicate Technical Proposal for
Tender Name. [Name of Tender]
Tender No. **128092016-1**
Lot No:

[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 Tender.

- 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 Tender for
Tender Name. [Name of Tender]
Tender No. **128092016-1**
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 Tender for

Tender Name. [Name of Tender]

Tender No. **128092016-1**

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 shall enclose soft copies of the Technical Proposal, 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 various Punjab Government Offices in Punjab (if required).
- 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 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 Tenderer shall furnish the Bid Security (Earnest Money) as under:

15.1.1 for amounts as given below:

Lot #	Description	Bid Security Amount (PKR)
1	Tools	10,000
2	Lightening Material	5,000
3	Dry Battery	2,500
4	Dry Battery	2,500
5	Bus Coupler	15,000
6	Energy Meters	5,000
7	VFD	15,000
8	Electrical	15,000
9	Paint	10,000
10	Miscellaneous	10,000
11	Atrium Roof	15,000
12	Security Material	10,000
13	Mechanical & Plumbing	10,000
14	Equipment for Chillers	5,000
15	Materials for Chillers	10,000
16	Chemical for Chillers	10,000
17	Split AC items	5,000
18	Chemical for water treatment	15,000
19	Desktop computers	10,000
20	Printers	5,000
21	Network equipment	15,000
22	UPS	10,000
23	BMS	35,000
24	Auditorium upgradation	15,000
25	R & D	10,000
26	Access Control Cards	5,000
27	Miscellaneous Items	10,000
28	Fiber related passive equipment	12,000
29	IT related accessories	30,000
30	IP CCTV Camera	15,000
31	IP Telephones	5,000
32	Servers	20,000
33	Laptops	10,000
34	Security Equipment	10,000

15.1.2 denominated in Pak Rupees;

15.1.3 separately against each Lot given in this tender document;

15.1.4 As part of financial bid envelope, failing which will cause rejection of bid.

15.1.5 in the form of Demand Draft / Pay Order / Call Deposit Receipt, in the name of the Purchaser;

- 15.1.6 have a minimum validity period of one hundred 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.
- 15.3 The Bid security shall be returned to the technically unsuccessful Tenderer with unopened/sealed financial bid while the unsuccessful bidders of financial bid opening procedure will be returned the Bid Security only. The Bid Security shall be returned to the successful Tenderer upon furnishing of the Performance Security.

16. Tender Validity

The Tender shall have a minimum validity period of ninety (90) 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 (Technical Bids) shall be opened at 1530 hours on the last date of submission of bids i.e. **12th October, 2016**, in the presence of the Tenderer(s) for which they shall ensure their presence without further invitation, as per provision of Rule-30 of PPRA 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/ the Goods / the Services;
 - 20.1.2 meets the Technical Specifications for the Goods / the Services against each Lot;
 - 20.1.3 meets the delivery period / point for the Goods / the Services against each Lot;
 - 20.1.4 in compliance with the rate and limit of liquidated damages;
 - 20.1.5 offers fixed price quotations for the Goods / the Services against each Lot; whereby no optional offer / bid or price is allowed;
 - 20.1.6 is accompanied by the required Bid Security as part of financial bid envelope against each Lot;
 - 20.1.7 In compliance with the Preparation/Submission of Tender in a manner prescribed in this tender document clause-13;
 - 20.1.8 Conforms to all terms and conditions of the Tender Document, without material deviation or reservation.
- 20.2 A material deviation or reservation is one which affects the scope, quality or performance of the Goods or limits the Purchaser's rights or the Tenderer's obligations under the Contract.
- 20.3 The Tender determined as not substantially responsive shall not subsequently be made responsive by the Tenderer by correction or withdrawal of the material deviation or reservation.

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

The Bidders who have duly complied with the Eligibility/Qualification and Evaluation Criteria against each Lot will be eligible for further processing.

The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty services will be rejected.

The Eligible/Technically Qualified Bidders will be considered for further evaluation.

The Technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria:

Category	Description	Points
Legal (Mandatory)	Valid Income Tax Registration	Required
	Valid General Sales Tax Registration (Status = Active with FBR)	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 technical specifications of materials / hardware (all items) to be procured mentioned vide Annex-A of this document	Required
	In full compliance of the Execution Schedule and Delivery Period mentioned in tender document. (Undertaking)	Required

Note: Verifiable documentary proof for all above is required.

23. FINANCIAL PROPOSAL EVALUATION

- 23.1 Technically qualified/successful bidder(s)/Tenderer(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 Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against each Lot shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s).
- 23.2 Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made 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 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 Gov. 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) / Services 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-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 incomplete, partial, conditional, alternative, late; or
- 24.2.4 bid not submitted separately against each Lot and relevant bid security is not submitted against each Lot separately.
- 24.2.5 the Tenderer refuses to accept the corrected Total Tender Price; or
- 24.2.6 the Tenderer has conflict of interest with the Purchaser; or
- 24.2.7 the Tenderer tries to influence the Tender evaluation / Contract award; or
- 24.2.8 the Tenderer engages in corrupt or fraudulent practices in competing for the Contract award;
- 24.2.9 the Tenderer fails to meet all the requirements of Tender Eligibility / Qualification Criteria (Clause-7);
- 24.2.10 the Tenderer fails to meet the evaluation criteria requirements (clause-22);
- 24.2.11 the tenderer has been blacklisted by any public or private sector organization;
- 24.2.12 the Tenderer has been served any legal notices or displeasure letters by any public sector organization on serious failures to provide satisfactory services;
- 24.2.13 the tendered has mentioned any financial implication(s) in the financial proposal that is in contradiction to this document and Government rules and regulations.
- 24.2.14 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.
- 24.2.15 the Tenderer submits any financial conditions as part of its bid which are not in conformity with tender document.
- 24.2.16 Non-submission of verifiable proofs against the mandatory as well as general documentary, qualification and eligibility related requirements.
- 24.2.17 If the rates quoted by vender are not workable or on higher side etc.

25. Award Criteria

- 25.1. At first step, eligible bidder(s)/tenderer(s) as per clause-7 (Tender Eligibility) of this tender document fulfilling the qualification and technical evaluation criteria against each Lot will stand technically qualified.
- 25.2. At second step, technically qualified and successful bidder(s)/tenderer(s) will be evaluated in the light of all Pre-Conditions, necessary requisites and shall be selected on lowest cost quoted as per rules and fulfilling all codal formalities against each Lot, irrespective of their score in the previous step.

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 PPRA 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 against each Lot.

27. Performance Security

- 27.1 The successful Tenderer/The Contractor against Lot # LOT # 3, 7, 13, 19, 20, 21, 22, 23, 24, 27, 29, 30, 31, 32, 33 & 34 shall furnish Performance Security as under:
- 27.1.1 within twenty eight (28) days of the receipt of the Acceptance Letter from the Purchaser;
 - 27.1.2 LOT wise performance security (Separate for each LOT, if the bidder is successful for more than one LOTs) would be submitted by the Bidder;
 - 27.1.3 in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document;
 - 27.1.4 for a sum Equivalent to 2% of the contract value;
 - 27.1.5 denominated in Pak Rupees;
 - 27.1.6 Have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later. No other shape or form of performance security shall 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.
- 27.4 In case the Contractor fails to furnish Performance security in the shape of bank guarantee within the stipulated period given under Letter of Acceptance and subsequent formal contract, or till end of the currency of the said contract, the amount of bank guarantee, as required, shall be deducted from the amount payable to 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

Contract Title:

[Name of Contractor]

Dated:

TABLE OF CONTENTS

I.	Agreement
II.	General Conditions of Contract
29.	Contract
30.	Contract Duration
31.	Contract Documents and Information
32.	Contract Language
33.	Standards
34.	Commercial Availability
35.	Patent Right
36.	Execution Schedule
37.	Packing
38.	Insurance
39.	Labeling
40.	Delivery
41.	Installation and Implementation
42.	Site Preparation
43.	Safety
44.	Test Equipment and Tools
45.	Spare Parts and Support
46.	Inspection and Testing
47.	Taking-Over Certificate
48.	Warranty
49.	Ownership of Goods and Replaced Components
50.	Defects Liability Expiry Certificate
51.	Payment
52.	Price
53.	Contract Amendment
54.	Assignment / Subcontract
55.	Extensions in time for performance of obligations under the Contract
56.	Liquidated Damages
57.	Blacklisting
58.	Forfeiture of Performance Security
59.	Termination for Default
60.	Termination for Insolvency
61.	Termination for Convenience
62.	Force Majeure
63.	Dispute Resolution
64.	Statutes and Regulations
65.	Taxes and Duties
66.	Contract Cost
67.	The Client
68.	Authorized Representative
69.	Waiver
70.	Training
71.	Documentation
III.	Technical Specifications

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

and

[full legal name of Contractor], on the other part severally liable to the Purchaser for all of the Contractor’s obligations under this Contract and is deemed to be included in any reference to the term “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 Goods/items as described in Tender Document; and
- (c) The Contractor, having represented to the Purchaser that it has the required professional skills, and personnel and technical resources, has agreed to provide such services on the terms and conditions set forth in this Contract.

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

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

- k. Service Level Agreement (SLA) (if required)
- l. Non-Disclosure Agreement (if required)
- m. Any Standard Clause acceptable for Purchaser

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

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

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

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

Signature

Signature

Name

Name

Witnessed By:

Witnessed By:

WITNESSES

Signature _____
 CNIC # _____
 Name _____
 Designation _____
 Address _____

Signature _____
 CNIC # _____
 Name _____
 Designation _____
 Address _____

II. General Conditions of Draft Contract

29. Contract

The Purchaser shall, after receipt of the Performance Security from the successful Tenderer, 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 for LOT # 3, 7, 13, 19, 20, 21, 22, 23, 24, 27, 29, 30, 31, 32, 33 & 34 starting from the date of delivery, installation, and deployment & commissioning of all Goods/Equipment/materials till end of warranty period. For remaining lots the contract duration shall be for eight weeks starting from the date of issuance of Letters of Acceptance.

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, drawing(s), pattern(s), sample(s) or information furnished by or on behalf of the Purchaser in connection therewith, except for purposes of performing the Contract or disclose the same to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

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

34. Commercial Availability

The Goods supplied under this Contract shall be commercially available at the time of signing of the contract. Commercial availability means that such Goods shall have been sold, installed and 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 / the Service or any part thereof.

36. Execution Schedule

The contractor shall deliver the goods / materials within eight (08) weeks from the issuance of Letter of Acceptance.

37. Packing

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

38. Insurance

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

39. 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.

40. Delivery

- 40.1 The Contractor shall indicate his delivery approach clearly specifying the requirements for packing, shipping and unpacking of deliverable hardware with any associated/relevant software and its documentation. The approach shall address shipment of deliverables to the various designated (installation) 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 the Goods at various Government Offices in Punjab, as specified by the Purchaser at the time of delivery.
- 40.2 The Service 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.
- 40.3 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.
- 40.4 The Contractor shall include in the Tender a detailed logistics plan which shall include support details for transportation, mobilization and personnel scheduling during project implementation and the warranty period. The Contractor shall provide maintenance, supply and procurement support necessary for Client to maintain all system, at the contracted performance and reliability level. The Contractor shall arrange and pay for the transport of the Goods to the place of destination as specified in the Contract.

41. Installation and Implementation

- 41.1 The Contractor shall ensure that the implementation design conforms to an open standard by which new services can be added without disruption to existing services.
- 41.2 The Contractor shall ensure that the implementation is fault tolerant. This is accomplished by supplying a set of programs and procedures that allow the system recovery or roll back when a fault is detected.

- 41.3 The Contractor shall provide a document stating step-by-step procedures for installation and disaster recovery to the Purchaser.
- 41.4 The Contractor shall provide all the recent patches and updates for Firmware/Hardware, on a reliable media, with proper labeling, during the installation to the Purchaser.
- 41.5 The Contractor shall configure the system for high availability and reliability, of all hardware and software.
- 41.6 The Contractor shall submit detailed and complete installation, transition and cutover plan for the new system, installation procedures for the new components specifying Equipment checkout, installation constraints, operational cutover, maintenance prior to Client acceptance and if special security and/or access arrangements are required.

42. Site Preparation

- 42.1 The Contractor shall be responsible to survey the site, prepare the site, determine power, air conditioning and floor space requirements, identify and install, if necessary, any special / additional power and air conditioning requirements, for the proposed Equipment.
- 42.2 The Purchaser and the Client shall facilitate the Contractor in discharge of the above responsibilities.

43. Safety

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

44. Test Equipment and Tools

The Contractor shall evaluate the existing facilities and abilities of the Client to accomplish corrective and preventive maintenance and support and identify additional skills, test Equipment and tools required to maintain and support the new Equipment. Such test Equipment and tools shall be state of the art in design aimed at providing an efficient, systematic and cost effective repair operation for all replaceable components.

45. Spare Parts and Support

- 45.1 The Contractor shall ensure that the Goods provided by the Contractor, under the Contract are standard and incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 45.2 The Contractor shall further ensure that the Goods provided by the Contractor, under the Contract shall have no defect, arising from design, materials, installation, configuration, or from any act or omission of the Contractor that may develop under normal use of the provided Goods.
- 45.3 The Contractor shall maintain sufficient backup stock of spare parts and tools locally at sites, for the maintenance of the supplied Goods, during the warranty period.
- 45.4 The Contractor shall ensure availability of spare parts and technical assistance for all components for at least three years, without major changes, after the completion of final acceptance.
- 45.5 The Contractor shall give six months advance notice on any discontinued part(s) with a

suggestion for appropriate alternatives failing which will cause forfeiture of Performance Security.

45.6 The Contractor shall also identify and provide the following:

45.6.1 items (repairable spares, parts and consumable supplies) that are needed to maintain design performance, reliability and availability standards prescribed in the Technical Specifications. The quantity of spare parts and consumable items provided and kept shall be Equal to the requirements for one year of operating stock;

45.6.2 critical items, whose failure would cause a system failure;

45.6.3 items of high cost and/or long lead time (over thirty working days);

45.6.4 items whose design reliability is such that normal stock replenishment would not justify maintaining a level of the item in stock.

46. Inspection and Testing

46.1 The Client shall inspect and test the Goods supplied, the Services provided or the Works carried out, under the Contract, to verify their conformity to the Technical Specifications.

46.2 The inspections and tests shall be conducted at the premises of the Contractor / at the final destination. Where conducted at the premises of the Contractor, the Contractor shall provide all-reasonable facilities and assistance, including access to drawings, production data and online verification from official web site of the Manufacture, to the inspectors, at no charge to the Purchaser.

46.3 The Purchaser may reject the Goods, the Services or the Works if they fail to conform to the Technical Specifications, in any test(s) or inspection(s) and the Contractor shall either replace the rejected Goods, Services or Works or make all alterations necessary to meet the Technical Specifications, within three working days, free of cost to the Purchaser.

46.4 The Purchaser's post-delivery right to inspect, test and, where necessary, reject the Goods shall in no way be limited or waived by reason of pre-delivery inspection, testing or passing of the Goods.

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

47. Taking-Over Certificate

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

47.2 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 work required to be done by the Contractor to enable the Taking-Over Certificate to be issued.

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

48. Warranty

48.1 The Contractor shall warrant to the Purchaser that the Goods supplied by the Contractor, under the Contract are genuine, brand new, non- refurbished, un-altered in any way, of the most recent or current model, imported through proper channel, and incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

48.2 The Contractor shall further warrant that the Goods/Services supplied by the Contractor, under the Contract shall have no defect, arising from design, materials, workmanship or from any act or omission of the Contractor that may develop under normal use of the supplied Goods/Services.

48.3 The Contractor shall provide Manufacturer's warranty (if applicable) for minimum one (1) year for LOT # 3, 7, 13, 19, 20, 21, 22, 23, 24, 27, 29, 30, 31, 32, 33 & 34 (hereinafter referred as Warranty Period) after the issue of Taking-over Certificate in respect of Goods, the Services and the Works, or any portion thereof, as the case may be, which will include:

- 48.3.1 Free, on site repair / replacement of defective / damaged parts and labor, within 24 hours of intimation in Lahore and 48 hours outside Lahore;
- 48.3.2 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.
- 48.4 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.
- 48.5 The Warranty Period shall start from the date of installation / configuration / deployment of the Goods on site.
- 48.6 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.
- 48.7 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.
- 48.8 The end user licenses, end user warranties and end user contracting support services shall be in the name of Purchaser, for the Goods supplied, the Services provided and the Works done, under the Contract.
- 49. 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.
- 50. Defects Liability Expiry Certificate**
- 50.1 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.
- 50.2 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 work required to be done by the Contractor to enable the Defects Liability Expiry Certificate to be issued.
- 51. Payment**
- 51.1 The Contractor shall provide all necessary supporting documents along with invoice.
- 51.2 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 supplied, the Services provided and the Works done, up to the date of the Application for Payment and subsequent to the period covered by the last preceding Payment, if any.
- 51.3 The Purchaser shall get verified the details of services / goods delivered against the invoice from the Technical Team of ASTP and Payment shall be made on complete delivery of services / goods after issuance of satisfactory certificate by concerned technical team, as per details given in relevant Letter of Acceptance.
- 51.4 The Purchaser shall pay the amount verified within thirty (30) days. Payment shall not be made in advance and against partial delivers. The Purchaser shall make payment for the Goods supplied, the Services provided and the Works done as per, to the Contractor, as per Government policy, in Pak Rupees, through crossed cheque.
- 51.5 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 2% of total contract value

- shall be deducted from the payments to be made against the contract
- 51.6 All payments shall be subject to any and all taxes, duties and levies applicable under the laws of Pakistan for the whole period starting from issuance of Acceptance Letter i.e. Letter of Acceptance (LOA) till termination of the signed contract in this regard.

52. Price

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

53. Contract Amendment

- 53.1 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.
- 53.2 The Contractor shall not execute any Change until and unless the Purchaser has allowed the said Change, by written order served on the Contractor.
- 53.3 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.
- 53.4 No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

54. Assignment / Subcontract

- 54.1 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.
- 54.2 The Contractor shall guarantee that any and all assignees / subcontractors of the Contractor shall, for performance of any part / whole of the work under the contract, comply fully with the terms and conditions of the Contract applicable to such part / whole of the work under the contract.

55. 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.

56. Liquidated Damages

If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, without prejudice to any other right of action / remedy it may have, deduct from the Contract Price, as liquidated damages, a sum of money @0.25% of the total Contract Price which is attributable to such part of the Goods / the Services / the Works, 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, 50% of the Contract Price.

57. Blacklisting

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 or found to have engaged in corrupt or fraudulent practices in competing for the award of contract or during the execution of the contract, the Purchaser may 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 and PITB Procurement Regulations and Guidelines.

58. Forfeiture of Performance Security

- 58.1 The Performance Security shall be forfeited by the Purchaser, on occurrence of any / all of the following conditions:
- 58.1.1. If the Contractor commits a default under the Contract;
 - 58.1.2. If the Contractor fails to fulfill any of the obligations under the Contract;
 - 58.1.3. If the Contractor violates any of the terms and conditions of the Contract.
- 58.2 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 2% of total contract value shall be deducted from the payments to be made against the contract.
- 58.3 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.
- 58.4 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.

59. Termination for Default

- 59.1 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.
- 59.2 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, Goods / Services / Works, similar to those undelivered, and the Contractor shall be liable to the Purchaser for any excess costs for such similar Goods / Services / Works. However, the Contractor shall continue performance of the Contract to the extent not terminated.

60. 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.

61. Termination for Convenience

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

62. Force Majeure

- 62.1 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 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.
- 62.2 The Contractor shall not be liable for liquidated damages, forfeiture of its Performance Security, blacklisting for future tenders, termination for default, if and to the extent his failure / delay in performance /discharge of obligations under the Contract is the result of an event of Force Majeure.
- 62.3 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 as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 62.4 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 and (B) avoid or overcome in the carrying out of its obligations here under.
- 62.5 Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

63. Dispute Resolution

- 63.1 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.
- 63.2 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 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.

64. Statutes and Regulations

- 64.1 The Contract shall be governed by and interpreted in accordance with the laws of Pakistan.
- 64.2 The Contractor shall, in all matters arising in the performance of the Contract, conform, in all respects, with the provisions of all Central, Provincial and Local Laws, Statutes, Regulations and By-Laws in force in Pakistan, and shall give all notices and pay all fees required to be given or paid and shall keep the Purchaser indemnified against all penalties and liability of any kind for breach of any of the same.
- 64.3 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.

65. 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.

66. 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.

67. The Client

- 67.1 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.
- 67.2 The Contractor shall proceed with the decisions, instructions or approvals given by the Client in accordance with these Conditions.
- 67.3 The Client shall conform to all the relevant clauses of this Tender Document to carry out all responsibilities assigned thereto in a timely manner.

68. Authorized Representative

- 68.1 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.
- 68.2 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.
- 68.3 Any such delegation or revocation shall be in writing and shall not take effect until notified to the other parties to the Contract.
- 68.4 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.
- 68.5 Notwithstanding Clause 68.2, any failure of the Authorized Representative to disapprove any Goods or Services or Works shall not prejudice the right of the Client to disapprove such Goods or Services or Works and to give instructions for the rectification thereof.
- 68.6 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.

69. Waiver

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

70. Training

- 70.1 The Contractor shall arrange and undertake 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.
- 70.2 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.

71. 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.

72. Special Stipulations

SCHEDULE-A, SPECIAL STIPULATIONS	
For ease of Reference, certain special stipulations are as under:	
Bid Security (Earnest Money)	The Contractor shall furnish the Bid Security (earnest Money) as under: separately against each LOT; in the form of Demand Draft / Pay Order / Call Deposit Receipt, in the name of the Purchaser; as per details given in clause-15; denominated in Pak Rupees; Have a minimum validity period of ninety days from the last date for submission of the Tender or until furnishing of the Performance Security, whichever is later.
Performance Security	The successful Contractor shall furnish Performance Security against for LOT # 3, 7, 13, 19, 20, 21, 22, 23, 24, 27, 29, 30, 31, 32, 33 & 34 as under: within twenty eight (28) days of the receipt of the Acceptance Letter from the Purchaser; in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document; for a sum Equivalent to 2% of the total contract value; denominated in Pak Rupees; Have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfillment of all obligations under the contract, <u>whichever is later.</u>
Delivery Period (including installation, configuration, deployment, commissioning, testing, and training of the delivered items)	Within Eight (08) weeks from the issuance of Letter of Acceptance.
Liquidated damages for failure / delay in supply / installation / configuration of Goods / Services / Works by the Contractor	If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, without prejudice to any other right of action / remedy it may have, deduct from the Contract Price, as liquidated damages, a sum of money @0.25% of the total Contract Price which is attributable to such part of the Goods / the Services / the Works, 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, 50% of the Contract Price.

ANNEXURE-A

LOT # 1 (TOOLS LIST)

Sr. no.	Description	Specification	Make	Unit	Quantity
1	Circulation Pump	Stainless steel body 2000 Watt		Nos	1
2	Chain Block	02 Ton		Nos	1
3	Hexa Blade 1"	Standard		Nos	24
4	Hexa Blade 1/2"	Standard		Nos	24
5	Hexa frame	Standard		Nos	2
6	Knife cutter with blades	Standard		Nos	12
7	Baby Grinder	4"	Bosch/Hitachi/Equivalent	Nos	2
8	disk grinder	8"	Bosch/Hitachi/Equivalent	Nos	1
9	Grease gun	Standard		Nos	1
10	Pulley puller	24"		Nos	1
11	Pulley puller	18"		Nos	1
12	Pulley Puller	12"		Nos	1
13	Lock opener	Standard		Nos	1
14	Lock closer	Standard		Nos	1
15	Blower	1000 Watt	Dewalt/Bosch/Equivalent	Nos	2
16	Vernier Caliper Analog	300 mm		Nos	2
17	Vernier Caliper Digital	300 mm		Nos	2
18	Socket Set mm size	36 Pieces	Stanley/Alora/Equivalent	Set	2
19	Pipe Wrench	10"	Stanley/Alora/Equivalent	Nos	2
20	Pipe Wrench	12"	Stanley/Alora/Equivalent	Nos	2
21	Pipe Wrench	14"	Stanley/Alora/Equivalent	Nos	2
22	Pipe Wrench	18"	Stanley/Alora/Equivalent	Nos	2
23	Adjustable Wrench	6"	Stanley/Alora/Equivalent	Nos	4
24	Adjustable Wrench	10"	Stanley/Alora/Equivalent	Nos	4
25	Adjustable Wrench	12"	Stanley/Alora/Equivalent	Nos	4
26	Adjustable Wrench	18"	Stanley/Alora/Equivalent	Nos	4
27	Ring Spanner Set	6mm-32mm	Stanley/Alora/Equivalent	Nos	2
28	Ring Spanner Set	0"-3"	Stanley/Alora/Equivalent	Nos	1

29	Open Spanner Set	6mm-32mm	Stanley/Alora/Equivalent	Nos	2
30	Grip Plier	240mm	Stanley/Force/Equivalent	Nos	2
31	Hex Key Set	1.5mm-10mm	Stanley/Alora/Equivalent	Nos	2
32	Hammer	1/2 Kg		Nos	3
33	Hammer	1Kg		Nos	3
34	Hammer	2Kg		Nos	3
35	Hammer	5Kg		Nos	2
36	Wooden Hammer	Standard		Nos	2
37	Measuring Tape	8 meter		Nos	2
38	Measuring Tape	12 meter		Nos	2
39	Measuring Tape	100 meter		Nos	1
40	Sheet Cutter	6"		Nos	2
41	Sheet Cutter	10"	Stanley/Force/Equivalent	Nos	2
42	Nose Plier	6"	Stanley/Force/Equivalent	Nos	3
43	Diamond File Set	6"	Stanley/Force/Equivalent	Nos	2
44	Rough File	12"	Stanley/Force/Equivalent	Nos	2
45	Smooth File	12"	Stanley/Force/Equivalent	Nos	2
46	Half Round File	10"	Stanley/Force/Equivalent	Nos	2
47	Torch/Flash light Rechargeable	Hand Carry	Energizer/Equivalent	Nos	2
48	scissors	10"		Nos	2
49	Moose Kit	3" - 8"	Stanley/Force/Equivalent	Nos	1
50	Karcher Pressure Service Pump	HD 6/15 C		Nos	1
51	AC Vacuum pump	as per sample		Nos	2
52	Drill Machine	2000 Watt	Dewalt/Hilti/ Equivalent	Nos	1
53	AC Servicing Tool Kit		Stanley/Force/Equivalent	Nos	1
54	Charging Line			Pack	3
55	Low Pressure Gauge			Nos	2
56	High Pressure Gauge			Nos	2
57	Solding Iron Kit	40W		Nos	1
58	Oxygen Cylinder Guage			Nos	1
59	Flat Screw Driver Set	10"	Stanley/Force/Equivalent	Nos	2

60	Philips Screw Driver Set	10"	Stanley/Force/Equivalent	Nos	2
61	Chisel	8"	Stanley/Force/Equivalent	Nos	2
62	Chisel	12"	Stanley/Force/Equivalent	Nos	2
63	Chisel	18"	Stanley/Force/Equivalent	Nos	2
64	Digital Multi Volts and Ohm & Hz Meter	600V	Kyoritsu/Equivalent	Nos	1
65	Digital Clamp Meter	600A, 2000A	Kyoritsu/Equivalent	Nos	2
66	Digital Magger/Insulation Tester	2000 volt	Kyoritsu/Equivalent	Nos	1
67	Earth Tester		Kyoritsu/Equivalent	Nos	1
68	Hot Air Gun	1000 w	Black & Dacker/Hitachi/Equivalent	Nos	1
69	Soldering iron with stand	40w + 150w	Goot /Equivalent	Nos	4
70	Soldering Sucker		Goot /Equivalent	Nos	2
71	DC Power Supply	0~24V, 0~20A		Nos	1
72	DC Clamp meter	100 A	Kyoritsu/Equivalent	Nos	1
73	Battery Tester	1000w	Kyoritsu/Equivalent	Nos	1
74	Flat Screw Driver	18 inch	Stanley/Force/Equivalent	Nos	2
75	Filler Gauge			Nos	2
76	Complete T set	Standard	Stanley/Alora/Equivalent	Set	2
77	Line Tester		Stanley/Alora/Equivalent	Nos	12
78	Cable knife with Blade Set	Fix Blade		Set	2
79	Tool pouch			Nos	2
80	Screw Drivers Flat & Philips SET	7Pcs	Stanley/Force/Equivalent	Set	2
81	Allen Keys Set long mm Size	1.5 to 10mm	Stanley/Force/Equivalent	Set	2
82	Allen Keys set long	1/16 to 3/8	Stanley/Force/Equivalent	Set	2
83	Star Allen Key Set	1mm to 12mm	Stanley/Force/Equivalent	Set	2
84	Star Screw Driver Set	1mm to 12mm	Stanley/Force/Equivalent	Set	2
85	Precision screw Driver kit	11 Pcs	Stanley/Force/Equivalent	Set	2
86	Precision screw Driver kit	45 Pcs	Stanley/Force/Equivalent	Set	1
87	Thimble Plier	1.5mm - 6mm	Stanley/Force/Equivalent	Nos	2

88	Thimble Plier	4mm - 25mm	Stanley/Force/Equivalent	Nos	1
89	Monkey Plier	12"	Stanley/Force/Equivalent	Nos	3
90	PH Meter			Nos	1
91	PH Strip			Packet	10
92	Mini nipper side cutter			Nos	3
93	Hilti drill bit concrete	6mm		Nos	12
94	Hilti drill bit concrete set	4mm to 18mm		Set	1
95	safety gloves cotton			Pair	50
96	safety gloves insulated			Pair	10
97	plier	8",10"	Stanley/Force/Equivalent	Nos	6
98	Nose Plier	8",10"	Stanley/Force/Equivalent	Nos	6
99	side cutter	8",10"	Stanley/Force/Equivalent	Nos	6
100	Tweezer set 06 pcs	6" ,12"		Set	2
101	Magnifying Glass with light	4"		Nos	3
102	soldering Paste	Standard		Pack	10
103	soldering flux	Standard		Pack	10
104	small brush set	6 pcs		Set	2
105	Silicon Hot Gun	220V		Nos	1
106	Silicon rod	Standard		Nos	50
107	PPR Pipe Jointing Machine	50mm~110 mm		Nos	1

LOT # 2 (ELECTRICAL)**Item: - Lighting Materials**

Sr. No.	Material Description	Specifications	Make	Demand Quantity
1	Tube Rode (Cool Daylight)	(TL5 Type) 14Watt	Philips/ Equivalent	200
2	Tube Rode (Cool Daylight)	(TLD Type) 36Watt	Philips/ Equivalent	400
3	Electronic Choke 36 W double	(EL-B 1 Type)2x 36Watt	Philips/ Equivalent	50
4	Electronic Choke 36 W	EL-B1Type 1x 36 Watt	Philips/ Equivalent	50
5	Spot Light	220 V, 50 Watt	Philips/ Equivalent	20
6	Metal Halide Light Bulb(Master Color)	(CDM-TD) 70Watt	Philips/ Equivalent	10
7	Choke for Metal Halide Lamps	(BMH 70L Type) 70Watt	Philips/ Equivalent	10
8	Electronic Igniters for Metal Halide Lamps	(SN 58 T15 Type) 70 Watt	Philips/ Equivalent	10
9	Capacitor for Metal Halide	(CBB24s) 12uf,70 Watt	Philips/ Equivalent	10
10	Metal Halide Lamp 150w	CDM/T 150W	Philips/ Equivalent	10
11	Chokes for Metal Halide lamp	CDM/T 150W	Philips/ Equivalent	10
12	Metal Halide Light bulb(master color)	CDM/TD 250W	Philips/ Equivalent	5
13	Chokes for Metal Halide bulb	CDM/TD 250W	Philips/ Equivalent	5

LOT # 3 (ELECTRICAL)**Item: - Batteries for UPS (Data Room)**

Sr. No.	Material Description	Specifications	Make	Demand Quantity	Warranty
1	Dry Battery	12 Volt, 85 AH	As Per Sample	2	1 year

LOT # 4 (ELECTRICAL)**Item: - Batteries for UPS (Data Room)**

Sr. No.	Material Description	Specifications	Make	Quantity
1	UPS Control Card with Power Board	APC SURT 3000xli 3KVA	APC / Equivalent	4

LOT # 5 (ELECTRICAL)**Item: - Supply and installation and Commissioning of Bus Coupler Panel (LT Switch Room)**

S. No.	Description	Specifications	Make	Quantity
1	Bus Coupler Panel with following details	Size; 2200x800x800 MM 12/14 SWG ,Powder Coated	PEL/Electrech/ Equivalent	01 No's
2	ACB 2000 Amps,	65 KA ,Motorized complete with UVT ,shunt/Trip Coils	ABB/Schneider/ Equivalent	01 No's
3	ON-OFF ,Trip Push &Indication Lights, Amp &Volt meter	AC 220 V	Legrand/Eintes/Breter/ Fuji/ Equivalent	01 SET
4	PVC Cable, Single Core 300MM2	1000 Volt,99.9% pure Copper	Pakistan Cables/ New age/ Equivalent	180 MTRs
5	Copper Bus Bars 2000 Amps	99.9 % pure Copper (TPN)		01 SET
6	Installation & Commissioning	Items 1~5		01 JOB

Lot # 6 (ELECTRICAL)**Item: - Energy Meters with Current Transformer**

Sr. No.	Material Description	Specifications	Make	Quantity (Nos)
1	Energy Meter	415 V,3Phase,4 Wire, CT Ratio 300/5	Pel / Equivalent	2
2	Energy Meter	415 V,3Phase,4 Wire, CT Ratio 600/5	Pel / Equivalent	1
3	Energy Meter	415 V,3Phase,4 Wire, CT Ratio 200/5	Pel / Equivalent	3
4	Energy Meter	415 V,3Phase,4 Wire, CT Ratio 2000/5	Pel / Equivalent	1
5	Current Transformer	415 V,3Phase,4 Wire, CT Ratio 2000/5	Pel / Equivalent	8
6	Current Transformer	415 V,3Phase,4 Wire, CT Ratio 2000/5	Pel / Equivalent	4
7	Current Transformer	415 V,3Phase,4 Wire, CT Ratio 2000/5	Pel / Equivalent	12
8	Current Transformer	415 V,3Phase,4 Wire, CT Ratio 2000/5	Pel / Equivalent	4

Lot # 7 (ELECTRICAL)

Item: - VFD AND VFDs Cards

Sr. No.	Description	Specification		Qty.	Make	Warranty
1	VFD (variable-frequency drive)	ABB ACS 355-03E-15A6-4 IP20/UI open type type 1 with MUL 1 option (10Hp)	7.5Kw	2	ABB/Danfoss/ Equivalent	1 Year
2	VFD (variable-frequency drive)	ABBACS355-03E-38A0-4 ip20/u1 open type u1 18.5 kw type 1 with/v/u1option(25hp)	22.5 Kw	1	ABB/Danfoss/ Equivalent	1 Year
3	VFD (variable-frequency drive)	ABB Acs550-01-059A-4 IP21 ul type1 NEMA 1 37KW(50HP)	37KW	1	ABB/Danfoss/ Equivalent	1 Year

Lot # 8 (ELECTRICAL)

Sr. No.	Description	Specification	MAKE	Qty Nos
1	Magnetic Contractor	160 Amp ,400 V,3 Pole, Coil 220/400V	Telemechanic/Eq.	5
2	Magnetic Contractor	110 Amp ,400 V,3 pole ,Coil 220/400V	Telemechanic/Eq.	5
3	Magnetic Contractor	100 Amp, 400V,3 Pole, Coil 220/400V	Telemechanic/Eq.	5
4	Magnetic Contractor	125 Amp, 400V,3Pole,Coil 220/400V	Telemechanic/Eq.	5
5	Magnetic Contractor	45 Amp,400V,3 Pole, Coil 220/400 V	Telemechanic/Eq.	5
6	Magnetic Contractor	26 Amp ,400V,3Pole,Coil220/400V	Telemechanic/Eq.	5
7	Magnetic Contractor	10 Amp,400V ,3Pole,coil 220/400V	Telemechanic/Eq.	5
8	Phase Failure Relay	400v 30amp	SIEMENS/ Eq.	3
9	Phase failure relay	16amp 3*415*n 220v	Zahara/Eq.	2
10	Control Relay	Omron 220v 8 pin	Omron/Eq.	2
11	Control Relay	Omron 24v 8 pin	Omron/Eq.	2
12	Control relay	RR2P-U 12umi 8 pin	Omron/Eq.	1
13	Time delay Relay	220 vac 0.5~10sec	SIEMENS/Eq.	1
14	Overload (EOCR)	0 to 5 Amp	SIEMENS/Eq.	3
15	Timer	Omron 5,Amp 220v	Omron/Eq.	15
16	Selector Switch	40amp 500V 3 pole 3 position	Camsco/Bretter/Eq.	5
17	Selector Switch	75amp 600v 3 pole 3 position	Camsco/Bretter/Eq.	3
18	Selector Switch	20Amp 300vac 1 pole 3 position	Camsco/ Bretter/Eq.	3
19	Ampere Meter Selector Switch	5/5a 220V	Camsco/Bretter/Eq.	2
20	Volt Meter Selector Switch	5/5a 220V	Camsco/Bretter/Eq.	2
21	Volt Meter Digital	5/5a 220V	Camsco/Bretter/ Eq.	2
22	RCCB	100amp 415V 4 pole	Legrand/Eq.	5
23	RCCB	60amp 415V 4 pole	Legrand/Eq.	5
24	ACB	2000amp 4 pole,drawable,WL112000N	SIEMENS/Eq.	1
25	3 Pole Breaker	250 A,400V AC	Siemens/Eq.	2
26	Wires	1.5 MM,99.9 copper single core	Pakistan cable/Eq.	2
27	Wires	2.5MM ,99.9 copper single core	Pakistan cable/Eq.	2
28	Flexible Wire	1.5MM,99.9 copper single core	Pakistan cable/Eq.	2

29	Flexible Wire	2.5MM,99.9 copper single core	Pakistan cable/Eq.	2
30	Selector switch for capacitor panel	16A-690 V AC	Glovenzana/Eq.	2
31	Key switch	Ac12-10A-400V	Siemens/Eq.	2
32	3 Pole Breaker	100Amp,400V AC	Siemens/Eq.	2
33	Power Socket (light Plug)	15Amp,220Volt	Legrand/Eq.	50
34	Indication Light	220 V	Siemens/Eq.	100
35	PVC Insulation Tape	Low voltage	Nito japan/Eq.	200

LOT # 9 (CIVIL) Paint

Item: - Maintenance Material for Civil

Sr. No	Description	Unit	Quantity	Brand
1	Enamel Paint	Gallon	100	ICI/Berger/ Eq.
2	Primer	Gallon	10	ICI/Berger/Eq.
3	Emulsion	Bucket	35	ICI/Berger/Eq.
4	Weather Shield Paint	Bucket	15	ICI/Berger/Eq.
5	Kerosene Oil	Liter	150	Local
6	Sand Paper 150#,Waterproof	Dozen	20	Local
7	Plaster of Paris (1 KG Packing)	Kg	125	Local
8	Base Filling	Bucket	5	ICI/Berger/Eq.
9	Paint Brush 5 inch size	No	12	Captain/Eq.
10	Paint Brush 3 inch size	No	12	Captain/Eq.
11	Glue (1 KG Packing)	Kg	20	ICI/Berger/Eq.
12	Automatic Air Compressor	No	1	Imported/Local
13	Scraper	Dozen	2	Local
14	Joint Patti for ceiling/drywall joints	Dozen	3	Local

LOT # 10 (CIVIL) Miscellaneous

Sr. No	Description	Unit	Quantity	Brand
1	Silicon Tubes	Dozen	30	Harris/ Equivalent
2	Nut Bolts for Steel Structure 1-1/2 " with washers with lock	Dozen	25	Stainless Steel / Equivalent
3	Binding wire for ceiling	Kg	80	G.I / Equivalent
4	Door Locks (as per Sample)	No	20	Alpha/ Elephant/ Equivalent
5	Door Lock Cylinder (as per Sample)	Dozen	3	
6	Gola Pati ¾" for washroom doors (as per sample)	ft.	200	
7	Silicon Gun	No	6	
8	Cement	Bags	70	Bestway/Askari/Equivalent
9	White Cement	Bags	3	Bestway/Askari/Equivalent
10	Sand	Cft	1000	Chanab/ Equivalent
11	Tuff Tiles	No	12500	Izhar/Gondal/ Equivalent
12	Plastic Water Pipe for Gardening	Ft	500	
13	Grass Cutting Machine	No	1	
14	Crush 3/8"	Cft	300	Sargodha/ Equivalent
15	Door Closer	No	15	Alpha/ Elephant/ Equivalent

Lot # 11 (Civil) Atrium Roof Glass & Doors

Sr. No	Description	Unit	Quantity	Brand
1	Providing and fixing broken Atrium roof glass of same specification (5'x7' Size)	No	7	Ghani/Tariq/Equivalent
2	Providing and Fixing of Steel doors with frame and louvers for FCC Corridor (5'x7'), Pump Room Corridor (6'x7')	No	2	
3	Providing and fixing broken Atrium outer shade glass of same specification	No	1	Ghani/Tariq/Equivalent
4	Providing and fixing steel door leaf 16 SWG size as per site Car park roof top (Stair A & B) and Tower Block Roof Top (Stair C,D & E), Machine Room top Floor	No	6	
5	Providing and Fixing Dumpa False Ceiling with 600x600 mm size complete with all respect in FCC Room	Sft	750	

Lot # 12 (Civil) Security Material

Sr. No	Description	Unit	Quantity	Brand
1	Providing and Fixing Steel grill (same specification as already installed at site) for security Guard Room windows (Gate No 4 Nala Side)	No	3	
2	Providing and Fixing Steel Gate 16 SWG, with Glass panel for security room Main (3' x7') (Main Barriar)	No	2	
3	Pre Cast Roof Slab (6'X2') for Security Observation Posts (5 New Posts)	No	30	Izhar/Gondal/Equivalent
5	Nylon Rope 1" Size as per sample for Cleaning of Façade	Ft	850	
7	Bricks for construction of Store and Observation posts	No	8000	
8	Monkey Ladder (Rope) for Observation Posts	Ft	60	

LOT # 13 MECHANICAL

ITEM: TECHNICAL SPECIFICATION OF MECHANICAL & PLUMBING MATERIALS

Sr. No.	Description	Specifications	Make	Unit	Required Quantity	Warranty
1	Grease	Multipurpose	Caltex/Shell/Equivalent	Kg	20	N/A
2	Muslim Shower	Chrome Type	Master/Faisal/Equivalent	Nos.	75	N/A
3	Shower Pipe	Chrome Type	Master/Faisal/Equivalent	Nos.	75	N/A

4	Pressure Switch 1/2"	2~18 Bar	Alco/Honeywell / Equivalent	Nos.	6	N/A
5	Asbestos Gasket	4'x4'x3mm		Nos.	10	N/A
6	Flexible Connectors	150mm (1.6 mpa)	Scon/Equivalent	Nos.	2	1 Year
7	Flexible Connectors	80mm (1.6 mpa)	Scon/Equivalent	Nos.	4	1 Year
8	Flexible Connectors	100mm (1.6 mpa)	Scon/Equivalent	Nos.	2	1 Year
9	Gate Valve (Brass)	1 ¹ / ₄ "	Scon/Kitz/Equivalent	Nos.	12	1 Year
10	Gate Valve (cost iron) Class 150	DN 150 PN 16	Scon/Kitz/Equivalent	Nos.	1	1 Year
11	Gate Valve (cost iron) Class 150	DN 100 PN 16	Scon/Kitz/Equivalent	Nos.	2	1 Year
12	Gate Valve (cost iron) Class 150	DN 80 PN 16	Scon/Kitz/Equivalent	Nos.	2	1 Year
13	Handle Valve (Brass)	1/2"	Scon/Kitz/Equivalent	Nos.	24	1 Year
14	Pressure Reducer Valve (Brass)	40mm		Nos.	10	1 Year
15	Gate Valve (Cost Iron)	50mm (Flange Type)	Scon/Equivalent	Nos.	2	1 Year
16	Gate Valve (Brass)	40mm	Scon/Kitz/Equivalent	Nos.	10	1 Year
17	Rubber Gasket 3mm	4x4 ft		Set	2	N/A
18	T-Cock	1/2"		Nos.	25	N/A
19	PPR Pipe	25,32,40mm	Popular/ Equivalent	Length Nos. Each	5	N/A
20	PPR Union	25,32,40mm	Popular/ Equivalent	Length Nos. Each	20	N/A
21	PPR Valve	75mm	Popular/ Equivalent	Length Nos. Each	2	N/A
22	PPR Elbow	25,32,40mm	Popular/ Equivalent	Length Nos. Each	24	N/A
23	PPR Socket	25 ¹ / ₂ ", 32 ³ / ₄ ", 40 ¹ / ₂ "	Popular/ Equivalent	Length Nos. Each	24	N/A
24	PPR Flange	110mm	Popular/ Equivalent	Nos.	10	N/A
25	PPR Flange	75mm	Popular/ Equivalent	Nos.	4	N/A
26	Stainer Cast Iron	100mm	Scon/Equivalent	Nos.	6	N/A
27	INDA Soap Dispenser	Vanity Mounted		Nos.	20	N/A
28	Rubber Diafrom	As per Sample		Nos.	200	N/A
29	Solenoid Valve 1" (for Water) 150 Psi	Two Way 12v-DC (with supply)		Nos.	6	1 Year
30	Solenoid Valve 1/2" (for Water) 150 Psi	Two Way 12v-DC (with supply)		Nos.	6	1 Year
31	WD-40			Nos.	24	N/A

LOT # 14 HVAC
Equipment for Chillers Maintenance

Sr. no.	Description	Specification	Make	Unit	Quantity
1	Empty Drum	Plastic body 200 L		Nos	3
2	Steel PVC blanket rope	Dia 3mm		Rft	1000
3	Rubber gloves	18"		Pair	10
4	Chemical mask	Standard		Nos	4
5	Goggles	Standard		Nos	8
6	Safety shoes	Standard		Pair	4
7	Reinforced PVC pipe	1"		Rft	50
8	Torch light	Laser		Nos	1
9	PH strip	Standard		Packet	4
10	Acrylic Lacquer Spray	Standard	Sunkey/Equivalent	Nos	2
11	Jump suit	Standard		Nos	12
12	Stainless steel rod	length 27 feet dia 18mm with female thread on one end matching to nylon brush's threads		Nos	2

LOT # 15 HVAC
Material for Chillers Maintenance

Sr. no.	Description	Specification	Make	Unit	Required Quantity
1	Nylon Round Brush	Dia 20mm (Single)		Nos	300
2	Nylon Round Brush	Dia 20mm (double)		Nos	200
3	Nylon Round Brush	Dia 22mm (Single)		Nos	300
4	Nylon Round Brush	Dia 22mm (double)		Nos	200
5	Round Brass brush	1" Ø		Nos	50
6	Cotton waste	Standard		Kg	50
7	Polythene Sheet	Standard		Kg	100
8	Cotton gloves	Standard Size		Pair	100
9	Surgical mask	Standard Size		Pack	10
10	Epoxy Paint	ASTM Standard	Burger/ICI/Equivalent	Gallon	10
11	Thinner	Local Item		Gallon	5
12	Emery Paper	1.5 No.		Nos	150
13	Grease		Caltex /Shell /Equivalent	Tin	5
14	Rubber Sheet (Gasket)	3mm Thick		Rft	50
15	Teflon Tape	Standard		Box	5
16	Samad Bond	Standard		Gallon	8
17	Surf	Any Brand		Kg	50

18	PVC Tape	Standard		Nos	50
19	Vacuum oil	High Vacuum Pump Oil	Robin Air/Equivalent	Gallon	5
20	Pump oil	5W-30	Caltex/Shell/Equivalent	Gallon	10
21	Paint brush	3"	Captain/Equivalent	Nos	30
22	Paint brush	5"	Captain/Equivalent	Nos	30
23	WD-40			Nos	30
24	Quick Contact Cleaner Spray	Oil free		Nos	20
25	Steel wire brush			Nos	20
26	Grinding disc	4"		Nos	25
27	Buffer brush	4"		Nos	5
28	Masking tape	2"		Nos	50
29	Packing tape	2"		Nos	50
30	Aluminium tape	2"		Nos	50
31	Paint for chiller	Grey	Burger/ICI/Equivalent	Gallon	10
32	Kerosene Oil			Liter	40
33	HCL			Kg	350
34	Moly Slip Compound	Copper anti seize assembly compound		Liter	5

LOT # 16 HVAC

Chemical for Chillers Maintenance

Sr. no.	Description	Make	Unit	Quantity
1	Supply Powder Form imported descaler for absorption chiller tubes descaling and inspection during process	England / USA / Equivalent	Kg	1400
2	Supply Neutralizer for neutralizing the chiller after descaling & Inspection during process	England / USA / Equivalent	Kg	300

LOT # 17 HVAC

Split Air Conditioner Items

Sr. no.	Description	Specification	Make	Unit	Quantity
1	Copper Pipe	Dia ½" 22 guage	Mooler USA/Equivalent	Rft	50
2	Copper pipe	Dia ¼" 22 guage	Mooler USA/Equivalent	Rft	50
3	Aeroflex Insulation	5"	Arab Flex UAE/Equivalent	Rft	100
4	Split Air Conditioner Drain Pipe	Flexible		Rft	50
5	Refrigerant Genetron	R-22		Cylinder	5
6	Compressor Oil Suniso			Gallon	2
7	Copper Welding Rod			Kg	1
8	Brass Welding Rod			Kg	1
9	Welding Flux			Bottle	1

10	Capacitor	45 uf	Fuji/Equivalent	Nos	6
11	Capacitor	50 uf	Fuji/Equivalent	Nos	10
12	Capacitor	55 uf	Fuji/Equivalent	Nos	10
13	Capacitor	4 uf	Fuji/Equivalent	Nos	6
14	Capacitor	5 uf	Fuji/Equivalent	Nos	6
15	Capacitor	6 uf	Fuji/Equivalent	Nos	6
16	PC Capacitor	1.5 uf	Fuji/Equivalent	Nos	6
17	PC Capacitor	2 uf	Fuji/Equivalent	Nos	6

LOT # 18 HVAC

Chemical for Water Treatment

Sr. no.	Description	Unit	Quantity
1	Hydrosulphuric Acid (H2SO4) for Open Circuit of Absorption Chiller	Kg	1300
2	Corrosion Inhibitor for Open Circuit of Absorption Chiller	Kg	1500
3	Scale Inhibitor for Open Circuit of Absorption Chiller	Kg	400
4	Non-Oxidizing Biocide for Open Circuit of Absorption Chiller	Kg	150
5	Sodium Hypo Chloride	Kg	200
6	Corrosion Inhibitor nitrite base for Close circuit	Kg	750

LOT #19

Desktop Computers

ITEM# 1 QTY. (06)		
Sr. #	ITEM	DESCRIPTION (Minimum Specifications)
1	Processor	Intel® 6 th Generation Core™ i7 or higher
2	Mother Board	Intel Chipset
3	Memory	8 GB DDR-3, SDRAM 1333 MHz or higher
4	Hard Disk Drive	Min 1TB SATA-II with 7200 RPM or higher
5	Optical Drive	CD+/-RW and 8X DVD RW 16X DVD R or higher, compatible with Microsoft Windows 2000/Xp/2003/Vista/7 and Linux.
6	Video/Display Card	Integrated
7	Sound Card	Integrated
8	Network Adapter	Built-in 10/100/1000 base-T Gigabit Ethernet card (Microsoft Windows 2000/XP/2003/Vista/7, Linux Supportive) Wake on LAN (WOL) support
9	LCD Display	18.5" LED Monitor, Low Radiation, 1024 x 768 Resolution supportive.
10	Integrated I/O Interfaces	Six USB Ports (4 USB 2.0, 2 USB 3.0), One PCI slot, One PCIe slots etc.
11	Wireless LAN	Wireless 802.11abg 54 Mbps or higher, Microsoft Windows, Red Hat Linux Supportive.
12	Mouse & Key Board	USB Wired Keyboard, 2-Button USB 2.0 Optical Mouse with Scroll.
NOTE:		
1-	1 Year Parts and Labor warranty for all components on site.	
2-	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.	

ITEM# 2 QTY. (04)		
Sr. #	ITEM	DESCRIPTION (Minimum Specifications)
1	Processor	Intel® 6 th Generation Core™ i7 or higher
2	Mother Board	Intel Chipset
3	Memory	8 GB DDR-3, SDRAM 1333 MHz or higher
4	Hard Disk Drive	Min 500 GB SATA-II with 7200 RPM or higher
5	Optical Drive	CD+/-RW and 8X DVD RW 16X DVD R or higher, compatible with Microsoft Windows 2000/Xp/2003/Vista/7 and Linux.
6	Video/Display Card	NVIDIA GeForce with 2 GB Dedicated memory or higher
7	Sound Card	Integrated
8	Network Adapter	Built-in 10/100/1000 base-T Gigabit Ethernet card (Microsoft Windows 2000/XP/2003/Vista/7, Linux Supportive) Wake on LAN (WOL) support
9	LCD Display	18.5" LED Monitor, Low Radiation, 1024 x 768 Resolution supportive.
10	Integrated I/O Interfaces	Six USB Ports (4 USB 2.0, 2 USB 3.0), One PCI slot, One PCIe slots etc.
11	Wireless LAN	Wireless 802.11abg 54 Mbps or higher, Microsoft Windows, Red Hat Linux Supportive.
12	Mouse & Key Board	USB Wired Keyboard, 2-Button USB 2.0 Optical Mouse with Scroll.
13	OS(optional)	Windows 10 (OEM) Quote Separately
NOTE:		
1-	1 Year Parts and Labor warranty for all components on site	
2-	In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.	

LOT #20
All in One Printer

Sr. No	Description (Minimum Specifications)	Qty
1	<u>Printing</u> Printing Speed: 30ppm, Printing Resolution:1200 x 1200 dpi, Max. Monthly Duty Cycle: 40,000, Processor Speed:400MHz or higher <u>Copy</u> Copy Speed: 30ppm, Design Style : Flatbed, Copying Capability : standalone copying i.e. without PC <u>Scan</u> Color/Black and white scanning Scan Feature : E-mail, Image, OCR, File, FTP and USB Scan File Formats : JPEG, TIFF, PNG, PDF, PDF/A, Secure PDF, Searchable PDF, XML <u>Paper Handling</u> Paper Handling Size - Paper Tray: Letter, Legal, Executive, A4, A5, A6, B5, B6 Paper Handling Size - Multi-purpose Tray: Letter, Legal, Executive, A4, A5, A6, B5, B6, Envelopes Automatic two-sided printing. Print professional two-sided documents, brochures, and booklets Paper Capacity: 250-sheet capacity tray for letter or legal-size paper, plus a 50-sheet capacity multi-purpose tray. <u>Connectivity & Compatibility</u> Standard Interfaces: Ethernet, Hi-Speed USB 2.0 with Cables/ Patch cords along with standard accessories.	02

Note: 1 Year Parts and Labor warranty for all components on site

LOT # 21
Network Equipment

Sr. No	Parts Name	Description	Qty	Warranty
1.	Small Business 24-Port PoE Managed Switch	Total Ports: 24 x 10/100/1000Base-T Ethernet Uplink: 2 x 1G (SFP+) or above Including SFP Modules Layer 2 switching, Spanning Tree Protocol (802.1d) Fast convergence 802.1w, enabled by default Multiple Spanning Tree instances (802.1s) 32K MAC Address table support Link Aggregation Control Protocol(802.3ad) Support for up to 256 VLANs simultaneously (out of 4096 VLAN IDs) Port-based and 802.1q tag-based VLANs IPv4 Routing, Static routing, RIPv1/v2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, and ECMP, IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IGMP v1/v2/v3, PIM-SM, PIM-DM, and PIM-SSM.	No. 10	Minimum 1 year manufacturer's warranty
2.	Small Business 8-Port PoE Managed Switch	Total Ports: 08 x 10/100/1000Base-T Ethernet Uplink: 2 x 1G (SFP+) or above 2 Combo* Including SFP Layer 2 switching, Spanning Tree Protocol (802.1d) Fast convergence 802.1w, enabled by default Multiple Spanning Tree instances (802.1s) 32K MAC Address table support Link Aggregation Control Protocol(802.3ad) Support for up to 256 VLANs simultaneously (out of 4096 VLAN IDs) Port-based and 802.1q tag-based VLANs IPv4 Routing, Static routing, RIPv1/v2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, and ECMP, IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE	No. 16	Minimum 1 year manufacturer's warranty

		802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IGMP v1/v2/v3, PIM-SM, PIM-DM, and PIM-SSM.		
3.	Non Managed Switch	8 Port/4Port/8Port PoE	Nos. 15 (5+5+5)	
4.	Wi-Fi Router/AP	Dual-Band: (2.4GHz & 5GHz) ,IEEE 802.11n/g/b/a. Streaming, Large File Downloads, HD video streaming, WPA/WPA2 Encryption (Enterprise), WPAPSK/ WPA2-PSK Encryption (Personal), SPI & NAT Firewall, Access Control, MAC Address Filtering, Application: Browsing, Email, Music Audio Video Streaming, Large File Downloads, HD video streaming, LAN support: Full 10/100/1000 Mbps 4+1 ports, Speed: 5-GHz @ 300 Mbps, 2.4 GHz @ 300Mbps	No. 05	
5.	Fiber Aggregation Switch	12 SFP Port with SFP Module Complete in all aspect.	No. 01	Minimum 1 year manufacturer's warranty

Note: 1 Year Parts and Labor warranty for all components on site.

LOT # 22

UNINTERRUPTIBLE POWER SUPPLY (UPS)

Sr. No	Item	Description	Quantity
1	650 VA UPS	650 VA with dry batteries, surge protection, processor control, Online Double Conversion Technology, at least 15 minutes backup time or higher on 70% load, 0.8 Power factor, Serial/USB Port, Plug and Play, with other standard features and complete installation. NMS supported.	15
2	3kva UPS	3KVA with dry batteries, surge protection, processor control, Online Double Conversion Technology, at least 15 minutes backup time or higher on 70% load, 0.8 Power factor, Serial/USB Port, Plug and Play, with other standard features and complete installation. NMS Supported.	02

Note: 1 Year Parts and Labor warranty for all components on site.

LOT # 23
Building Management System (BMS)

Sr. No	Parts Name	Description	Qty	Warranty
1.	Relay	220V(8 pin & 14 pin) + 24V (8pin & 14pin) with Base	Nos.50 +50(100)	N.A
2.	Filters Dirty Alarm (DP Switch)	Filter dirty Alarm Switch Compatible with I/A Series and LON Network	Nos.3	Minimum 1 year manufacturer's warranty
3.	Smoke Alarm Sensor	Universal voltage: 24 VAC, 24 VDC, 115 VAC, or 230 VAC Compatibility: Compatible with I/A Series and LON Network Other Features : • Dust filtering included in detector head • Interconnect up to 30 detectors for common functions • Cover removal trouble indication • Magnet test capability • Front or rear loading sampling tubes • weatherproof enclosure	Nos.3	Minimum 1 year manufacturer's warranty
4.	Water Temperature Sensors	Sensing Element: Platinum RTD, 1000 ohms at 0°C , Element Size: 1/4 (6) dia. x 8 (203) long Compatible with I/A Series and LON Network	Nos.15	Minimum 1 year manufacturer's warranty
5.	Air Temperature Sensors	10K Ohm Thermistor w/ 11K Shunt Output: 10K Ohm at 70°F Compatible: with I/A series Enclosure : Galvanized Steel Enclosure Compatible with I/A Series and LON Network	Nos.15	Minimum 1 year manufacturer's warranty
6.	Air flow Switch	Sensing Element: Neoprene diaphragm. Environment: Ambient Temperature Limits, Shipping -40 to 1400 F. Operating 35 to 1400 F. Humidity 5 to 95% R.H., non-condensing Locations Compatible with I/A Series and LON Network	Nos.05	Minimum 1 year manufacturer's warranty
7.	Carbon Dioxide Sensor with display	Carbon dioxide sensor Compatible with I/A Series and LON Network	Nos.02	Minimum 1 year manufacturer's warranty
8.	Mix air relative humidity Sensor	Supply Voltage 250 Ohm Load: +15 to 36 Vdc / 21.6-26.4 Vac 0-5VDC: +15-36 Vdc /	Nos.01	Minimum 1 year manufacturer's

		21.6-26.4 Vac 500 Ohm Load: +18 to 36 Vdc / 21.6-26.4 Vac 0-10VDC: +18-36 Vdc / 21.6-26.4 Vac Power Consumption: 1VA maximum RH Compatible with I/A Series and LON Network		warranty
9.	Static Pressure Sensor	Signal Output: 0 - 10 VDC Power : 24 VAC ±10%/15 - 32 VDC Load Resistance: >50 kOhm Current Consumption : 10 mA Enclosure Rating : IP65 Compatible with I/A Series and LON Network	Nos.20	Minimum 1 year manufacturer's warranty
10	Micro net sensor controller	Display Screen Slot Built in Thermistor for sensing temperature Polarity insensitive connection with VAV controller Compatible with I/A Series and LON Network	Nos.25	Minimum 1 year manufacturer's warranty
11	Lon Cable	Type : Data Transmission Conductors : Copper Twisted Pair External Diameter : 6.96mm or higher	1000 meter	N.A
12	Transformers 220 to 24 V For DDC Panel	Step down 220 to 24 V 2*2.5"(5AMP) & Step down 220 to 24 V 1.25*1.5"(3Amp)	Nos.40 each	N.A
13	Power Supply for DDC panels/as per sample	24VAC/VDC	Nos.40	N.A
14	Expander for 5 digital input module	DUI-5N	Nos.10	N.A
15	Motorized Actuator for Chill Water	Actuator Type : Electric actuator control signal : Proportional Control signal range : 2 to 10 VDC Supply Voltage: 24 VAC/DC Force : 220 lbf Compatible with I/A Series and LON Network	Nos.06	Minimum 1 year manufacturer's warranty
16	Motorized Actuator for Hot Water	Actuator Type : Electric actuator control signal : Proportional Control signal range : 0 to 10 VDC Supply Voltage: 24 VAC/DC Force : 220 lbf Linear or Rotary Stem Movement Compatible with I/A Series and LON Network	Nos.06	Minimum 1 year manufacturer's warranty
17	Motorized	- Three-wire (on/off), 2-way and 3-way. 0-10, 0-5, 5-10 VDC or 4-20 mA	Nos.01	Minimum 1 year

	Actuator for Humidifier	proportional inputs. • Spring return or non-spring return. • Time out feature available must support • Compatible with I/A Series and LON Network		manufacturer's warranty
18	LON Talk Adapter	USB Lon Card compatible with Microsoft Windows Xp/7 or higher	Nos.01	Minimum 1 year manufacturer's warranty
19	VAV Controller	Power Supply Input: 20.4 to 30Vac, 50/60Hz • Capability to function in standalone mode or as part of a LONWORKS FTT-10 Free Topology communications network. • Integrated packaging with actuator, pressure transducer, and controller. • Integral actuator with manual override and travel limit settings • Input (from I/A Series Micro Net Sensor): • Space Temperature: 0 to 50°C • Adjustable Set points: 4.4 to 35°C • Operational Mode: Heat/Cool/Auto/Off. Override Pushbutton: For stand-alone occupancy control or remote status monitoring of local status condition • Compatible with I/A Series and LON Network	Nos.12	Minimum 1 year manufacturer's warranty
20	FCU controller	Inputs and outputs: 3 Universal Inputs (software-configured) 4 DO Triacs, capable of switching a total load of 0.5 A @ 24 Vac. • 3 DO Relay Outputs, 250 Vac, 3 A. S-Link Support. Maximum Switched Output Voltage: 24 Vac Switched Output Voltage: 24 Vac Terminal voltage : - 2.0 Vac Rating 12 VA (0.5 A) @ 24 Vac at each output. Total of 12 VA @ 24 Vac for all outputs that are ON at any one time. • Leakage Current 2.0 mA Minimum Permissible Load 50 mA • Compatible with I/A Series and LON Network	Nos.05	Minimum 1 year manufacturer's warranty
21	Cable distribution/ Termination Strip	With base Channel	Nos.300	N.A
22	Ambient Temperature Sensor	Material: Balco wire calibrated for 1000 ohms $\pm$ 1% at 70 F Temperature coefficient: 4300 ($\pm$ 150) ppm C between 25 and 100C Temperature = (SQRT ((.00644 x R) - 1.6597)	Nos.1	Minimum 1 year manufacturer's warranty

		-Storage Temperature Minimum = -40 F Maximum = 160 F Operation Temperature Minimum = -40 F Maximum = 240 F 1.961) / .00322		
23	Flow Meters for Diesel	Display : Digital Body Type : flange Flow Rate : Max 150 liter/min, Minimum 40litre/min Software : preferred GUI interface application Diameter : 50mm Connectivity : Capable of integrating with GSM Module	6	Minimum 1 year manufacturer's warranty

LOT # 24

Auditorium upgradation and maintenance

Sr. No	Parts Name	Description	Qty.	warranty
1.	Synthetic Carpet	4mm Thick Synthetic Carpet with under layer, A+ Quality (Sample/Shade card would be Required before the final delivery)	5000 Sq. ft.	N.A
2.	Lights	3" Dia SMD/COB light Should be able to maintain different illumination levels. Must be integrated with the already installed AVL System. Complete in all aspects including AC to DC Drivers.	Nos. 100	Minimum 1 year manufacturer's warranty
3.	Microphone	Tabletop Micro Phones With 3Pin Male XLR Connector 12" Length, High sensitivity, high Gain	Nos. 05	Minimum 1 year manufacturer's warranty
4.	Wireless Microphone + Transmitter & Receiver	UHF Wireless 506-530 Mhz. pocket Transmitter with Gain control for input level adjustment - Absolutely Silent On/Off switch, Complete in all aspect i.e. including microphone headset, and receiver of the wireless transmitter.	Nos. 04	Minimum 1 year manufacturer's warranty
5.	Wireless Collar Microphone	Handheld Microphone/Transmitter UHF Wireless 506-530 Mhz. - Absolutely Silent On/Off switch,	Nos. 02	Minimum 1 year manufacturer's warranty
6.	Projector Lift	Motorized 220 volts Project lift, Lift up to 35lbs.	Nos. 01	N.A
7.	Matt Screen	Motorized Projection Screen Matt. Size: 4'9" x 8'0"	Nos. 02	N.A
8.	Projector	Aspect ratio : 16:10 Display System : 3 LCD system Number of pixels : 3,072,000 (1280x800 x 3) pixels	Nos. 02	Minimum 1 year manufacturer's

		Lumens : 3,800 Contrast ratio : 3700:1 Connectivity : LAN , USB ,WXGA portable projector with wireless connectivity Light Source Type : Ultra high pressure mercury lamp Screen size : 30" to 300" (0.76 m to 7.62 m)(measured diagonally) Computer signal input :Maximum display resolution UXGA 1600 x 1200 dots*3 Video signal input : NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i		warranty
9.	Sound System 5.2	Professional Sound System 5.2 Should be capable of creating an impressive audio impact in a 4000sqft auditorium	Nos. 01	Minimum 1 year manufacturer's warranty
10.	Wooden Floor	Repair and rectification of the preinstalled wooden floor with polish and detailing	700 Sq. ft.	N.A

NOTE: Items Qty mentioned in Sq. feet will be measured on as per actual basis.

LOT # 25

Research and Development

Sr. No.	Parts Name	Description (Minimum Specifications)	Qty	Warranty
1.	Spartan-6 FPGA SP605 Evaluation Kit or Equivalent	SP605 Base Board with the XC6LX45T-FGG484-3 CES FPGA or Equivalent ISE® Design Suite Logic Edition: (device-locked) for Spartan-6 LX45T FPGA or Equivalent Package must include: • Evaluation kit • Universal 12V power supply • Cables: 2 USB, 1 Ethernet, 1 DVI-VGA adapter	No. 01	
2.	FLEX SENSOR	SPARKFUN FLEX SENSOR or Equivalent Length: 4.5" Flat Resistance: 10K Ohms Resistance Tolerance: ±30% Bend Resistance Range: 60K to 110K Ohms Power Rating: 0.50 Watts continuous. 1 Watt Peak Life Cycle: >1 million Height: 0.43mm (0.017") Temperature Range: -35°C to +80°C	Nos. 10	
3.	Action camera (Xioa-yi or Equivalent)	Length, Width, and Height: 60.4 mm x 42 mm x 21.2 mm	No. 01	

		Weight: 76.6 g Image Processor: Ambarella A7LS high-performance processor or Equivalent Image Sensor: 16MP Sony EXMOR R CMOS BSI image sensor or Equivalent Lens: 155° ultra wide angle glass lens / F2.8 Aperture G Sensor: ST high performance g-sensor Waterproof: Waterproof up to 40 m deep with waterproof housing Video Compression Format: High-definition H.264 image encoding Video Format: MP4 Built-in microphone and audio Rechargeable high-density lithium-ion battery (1010mAh) Up to 90 minutes of recording on 1080p 60fps Power status can be viewed in the app Before recording videos in a car, remove the battery and connect to a USB charger, USB Charging Port HDMI Port, Micro SD Card Slot Compatible with Micro SD card (up to 64GB), class 10 and above package must contains: Camera x1 Stick x1 SdCard 16GB class 10 x1 And standard accessories		
4.	Embedded Single Board Computer (Raspberry Pi 3 or Equivalent)	SoC: Broadcom BCM2837 or Equivalent CPU: 4× ARM Cortex-A53, 1.2GHz GPU: Broadcom Video Core IV or Equivalent RAM: 1GB LPDDR2 (900 MHz) Networking: 10/100 Ethernet, 2.4GHz 802.11n wireless Bluetooth: Bluetooth 4.1 Classic, Bluetooth Low Energy Storage: microSD GPIO: 40-pin header, populated Ports: HDMI, 3.5mm analogue audio-video jack, 4× USB 2.0, Ethernet, Camera Serial Interface (CSI), Display Serial Interface (DSI) Package must contains: Board x1	No. 02	

		Case x1 Heatsink x2 Power Adaptor 5V2A x1		
5.	Odroid XU4 Cloud Shell or Equivalent	Samsung Exynos5422 Cortex™-A15 2Ghz and Cortex™-A7 Octa core CPUs or Equivalent Mali-T628 MP6 or Equivalent(OpenGL ES 3.0/2.0/1.1 and OpenCL 1.1 Full profile) 2Gbyte LPDDR3 RAM PoP stacked eMMC5.0 HS400 Flash Storage 2 x USB 3.0 Host, 1 x USB 2.0 Host Gigabit Ethernet port HDMI 1.4a for display Size : 82 x 58 x 22 mm approx.(including cooling fan) Package must include - ODROID-XU4 Board or Equivalent - Active cooling fan (mounted) - 5V4A PSU - Cloud Shell board or Equivalent with 2.2inch TFT LCD assembled - 32GB eMMC 5.0 Module XU4 Linux or Equivalent	No. 01	
6.	Friendly ARM NanoPC-T3 or Equivalent	Processor: Samsung S5P6818 Octa-Core Cortex-A53, 400M Hz - 1.4G Hz or Equivalent System Memory: 2GB 32bit DDR3 RAM Storage: 1 x SD Card Socket Ethernet: Gbit Ethernet(RTL8211E) WiFi: 802.11b/g/n Bluetooth: 4.0 dual mode Antenna: Porcelain Antenna IPX Interface eMMC: 8GB Video Input: DVP Camera/MIPI-CSI (two camera interfaces) Video Output: HDMI Type-A / LVDS / Parallel RGB-LCD / MIPI-DSI (four video output interfaces) Audio: 3.5 mm audio jack / via HDMI Microphone: onboard Microphone USB Host: 4 x USB 2.0 Host MicroUSB: 1 x MicroUSB 2.0 Client, Type A LCD Interface: 0.5mm pitch 45 pin FPC seat, full color RGB 8-8-8 HDMI: 1.4A Type A, 1080P	No. 01	

		GPIO: 2.54 mm pitch 30 pin-header Heat Sink: 1 x Heat Sink with mounting holes Power: DC 5V/2A Package must contains: Single Board Computer x1 Case/housing x1		
7.	Friendly ARM Nano Pi M3 or Equivalent	SoC : Samsung S5P6818 Octa-Core Cortex-A53, 400M Hz - 1.4G Hz or Equivalent System Memory : 1GB 32bit DDR3 RAM Storage : 1 x MicroSD Card Socket Ethernet : Gbit Ethernet(RTL8211E) WiFi : 802.11b/g/n Bluetooth : 4.0 dual mode Antenna : Porcelain Antenna IPX Interface Audio : 3.5 mm audio jack / via HDMI I2S: 7pin, 2.54mm pitch pin-header USB Host : 4 x USB 2.0 Host MicroUSB: 1 x MicroUSB 2.0 Client, Type A LCD Interface : 0.5mm pitch 45 pin FPC seat, full color RGB 8-8-8 HDMI: 1.4A Type A, 1080P GPIO : 2.54 mm pitch 40 pin-header Power : DC 5V/2A Dimension : 64 mm x 60 mm Package must contains: Single Board Computer x1 Case/housing x1	No. 01	
8.	Node Mcuor Equivalent	CPU: ESP8266or Equivalent Memory: 20kBytes Storage: 4MBytes[3] Power: USB Connectivity: Wifi, USB	No. 10	
9.	Particle Electron 3G Evaluation Kitor Equivalent	STM32F205 ARM Cortex M3 micro controller or Equivalent 1MB Flash, 128K RAM Cellular modem: U-Blox SARA U-series (3G)or Equivalent 36 pins total: 28 GPIOs (D0-D13, A0-A13), plus TX/RX, 2 GNDs, VIN, VBAT, WKP, 3V3, RST Board dimensions: 2.0" x 0.8" x 0.3" (0.5" including headers)	No. 02	

10.	Particle Photon or Equivalent	Particle PØ Wi-Fi module or Equivalent Broadcom BCM43362 Wi-Fi chip or Equivalent 802.11b/g/n Wi-Fi STM32F205RGY6 120Mhz ARM Cortex M3 or Equivalent 1MB flash, 128KB RAM On-board RGB status LED (ext. drive provided) 18 Mixed-signal GPIO and advanced peripherals	No. 05	
11.	7-Inch HDMI Capacitive Touch LCD Screen	Display: 7" full-color a-Si TFT with IPS technology Input port: HDMI 1.4 Audio out speaker Resolution: 1280x800 or higher Aspect ratio: 16:9 (widescreen) Display colors: 262K (6-bits per color) Active area: 152mm (H) x 95.5mm (V) Surface treatment: 3H glass, Glare Weight: 110 grams Input voltage: 5V DC Operating temp: -20C ... 70C Storage temp: -30C ... 80C Power consumption: 3.1W (typ) Brightness: 400 cd/m2 (nits) Contrast ratio: 800:1 Viewing angle: 89 deg (all directions)	No. 02	
12.	Myo Gesture Control Armband or Equivalent	Black Color Myo Gesture Control Armband or Equivalent with Standard Micro-USB Cable, Bluetooth Adapter for Mac and Windows PC Connection and 10 Myo Sizing Clips Arm size: Expandable between 7.5 - 13 inches (19 - 34 cm) forearm circumference Weight: 93 grams Thickness: 0.45 inches Compatible devices WINDOWS Windows 7, Windows 8, Windows 10 (with included USB Bluetooth® adapter and OpenGL 2.1 or higher) ANDROID Android 4.3 (Jelly Bean) and up (device must have Bluetooth® radio that supports Bluetooth® 4.0 LE) Hardware Sensors Medical Grade Stainless Steel EMG sensors, Highly	No. 2	Minimum 30 days Warranty

		sensitive nine-axis IMU containing three-axis gyroscope, three-axis accelerometer, three-axis magnetometer LEDs Dual Indicator LEDs Processor ARM Cortex M4 Processor or Equivalent Haptic Feedback Short, Medium, Long Vibrations Power and Battery Micro-USB charging Built-in rechargeable lithium ion battery, One full day use out of single charge		
13.	IR Light Emitting Diode	Model Number: YSL-R531FR1C-F1 or Equivalent	No. 10	
14.	IR Photo Sensors (Receivers)	Model Number: TSOP38236 or Equivalent Model Number: TSOP38238 or Equivalent Model Number: TSOP38240 or Equivalent • Very low supply current • Photo detector and preamplifier in one package. • Internal filter for PCM frequency • Improved shielding against EMI • Supply voltage: 2.5 V to 5.5 V • Improved immunity against ambient light. • Insensitive to supply voltage ripple and noise. • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC	No. 9 (3+3+3)	
15.	6 axis accelerometer Gyroscope Module MPU 6050 or Equivalent	Digital-output X-, Y-, and Z-Axis angular rate sensors (gyroscopes) with a user-programmable full-scale range of ± 250, ± 500, ± 1000, and $\pm 2000^\circ/\text{sec}$. Integrated 16-bit ADCs enable simultaneous sampling of gyros. Digital-output triple-axis accelerometer with a programmable full scale range of $\pm 2g$, $\pm 4g$, $\pm 8g$ and $\pm 16g$. Integrated 16-bit ADCs enable simultaneous sampling of accelerometers while requiring no external multiplexer. Digital-output temperature sensor User-programmable digital filters for gyroscope, accelerometer, and temp sensor	No. 5	

16.	Photoelectric liquid level sensor	Operating voltage: 5V DC Working temperature: -25 ~ 105 Liquid level detection accuracy: ± 0.5 mm Material: PC Measuring range: No limit Life: 50,000 hours	No. 2	
17.	Passive Infrared (PIR) Ceiling Mounted Occupancy Sensor- 360°s	360° Coverage for rooms up to 1500sq. ft. Ideal for private offices, classroom cubby areas, and IT rooms.	No. 5	
18.	Solid State Drive (120GB rev. 3)	Form Factor: 2.5" Capacity: 120GB Memory Components: TLC Interface: SATA III Controller: SMI Performance: Max Sequential Read Up to 530 MBps Max Sequential Write: Up to 410 MBps MTBF: 1,500,000 hours Operating Temperature: 0°C ~ +70°C Max Shock Resistance: 1500G/0.5ms with standard dimensions	No. 1	

LOT # 26

Access Control Cards

Sr. No	Parts Name	Description	Qty.
1.	MI-fare Proximity Cards	Frequency = 13.56 MHz, Dimension: 85.5mm x 54mm x 0.76mm Memory: 1 KB R/W EEPROM	Nos. 2500

LOT # 27

Miscellaneous ITEMS

Sr. No	Parts Name	Description	Qty.	Warranty
1.	Technician Tool Kits	Complete Tool Kits for Maintenance	Nos.2	N.A
2.	Plastic Storage Box with compartments	for electrical Component storage	Nos.2	N.A
3.	Air Blower	Industrial Graded	Nos.2	Minimum 1 year manufacturer's warranty
4.	0V-60V DC Variable power supply	Digital type	Nos.2	Minimum 1 year manufacturer's warranty
5.	Hot Air Gun rework station with Soldering Iron	Standard with all accessories (paste & solder)	Nos.1	Minimum 1 year manufacturer's warranty
6.	USB Cable extension	5 ft. and 10 feet	Nos.10	N.A
7.	9 Volt Battery	Alkaline Batteries, Good reputed brand	Nos.24	N.A

8.	Equipment Cleaning Sprays	Glass Cleaner, Dashboard cleaner, contact cleaner and 1" / 2' brush for cleaning	Nos.05	N.A
9.	Branded Drill Bits	Size : 4mm, ,6mm 8mm,	Nos.10 each	N.A
		10mm	Nos.05	N.A
		14mm	Nos.05	N.A
10.	Drill bit Hilti type	18mm, Length : 18"	Nos.05	N.A
11.	Bread Board Medium Size	For testing circuits	Nos.5	N.A
12.	PLC Module	14 Digital Inputs 10 Digital Outputs 2 Analog Inputs Ethernet Communication Including Software	Nos.2	N.A
13	PLC Input Signal Module	16 digital inputs, compatible with Siemens PLC	Nos.2	N.A
14	PLC Output Signal Module	16 relay outputs, compatible with Siemens PLC	Nos.2	N.A
15.	PLC Analog Input Signal Module	4-20MA & 0-10V, compatible with Siemens PLC	Nos.1	N.A
16.	PLC Analog Output Signal Module	4-20MA & 0-10V, compatible with Siemens PLC	Nos.1	N.A
17.	Cable Ties	Assorted Cable Ties (4"x10,6"x10,8"x5,10"x2,12"x2)	Nos. 29	N.A
18.	spiral pipe	18mm & 25mm	Nos.20 rolls each	N.A
19.	Glands	3/4" and 1"	No.50 each	N.A
20.	cable ducts	16 *25mm,25*38mm, (Narrow Slot Narrow finger)	100 lengths each	N.A
21.	Contact Cleaner spray & Wd-40	Dry	2 cartoons each	N.A
22.	Thimble I	1.5 and 2.5mm	10 packets	N.A
23.	Thimble O	1.5 and 2.5mm	10 packets	N.A
24.	Thimble U	1.5 and 2.5mm	10 packets	N.A
25.	Thimble presser	Standard	No. 02	N.A
26.	Digital Clamp Meter	Standard Digital Clamp Meter	Nos.1	N.A
27.	Battery Tester	dry type	Nos.1	N.A
28.	Screw Kit	72 Pieces	Nos.2	N.A
29.	Glass fuse	1~5Amp/as per sample	Nos.100 each	N.A
30.	control cable	2 core cable red and black	1000 meter	N.A
31.	screw driver set	Standard	Nos.2	N.A
32.	magnifying glass	Standard	Nos.2	N.A
33.	Earthing tester	Standard	Nos.2	N.A

34.	Pliers Cutter	Standard	Nos.05	N.A
35.	Pliers	6" & 8 "	Nos.05 each	N.A
36.	Earthing Cable	Newage GM or Equivalent ,2.5mm	1000 meter	N.A
37.	L-keys Set Imported	Standard with Case	Nos.02	N.A
38.	Star Key set imported	Standard with Case	Nos.02	N.A
39.	Spanner Set Imported	Standard with Case	Nos. 02	N.A
40.	Socket Set with rachart	Standard with Case	Nos. 02	N. A
41.	Tools Caring Bag		Nos. 02	N.A

LOT # 28

Fiber Related Passive Equipment

Sr. No	Parts Name	Description	Qty.
1.	Fiber Optics	12 Core Single Mode Optical Fiber complete in all aspects (Digging, Laying, Splicing)	1500 meter
2.	ODF / 8 Port	8 Port ODF with 8*pigtail cables with Splicing	Nos.13
3.	ODF / 24 Port	24 Port ODF with 24*Pigtail Cable with Splicing	Nos.1
4.	Fiber Patch Cords	Single Mode, Full Duplex, SC-LC 3meter	Nos.70
5.	Fiber Patch Cords	Single Mode, Full Duplex, LC-LC 3meter	Nos.25
6.	Outdoor Db's	12 U, Outdoor Environmental Sheet, weather proof paint	Nos.13
7.	Poles	20 Ft, Galvanized	Nos.02

LOT # 29

IT Related Accessories

Sr.#	ITEM	ITEM Description	Qty	Warranty
1.	Dome cleaning Equipment	Complete Dome cleaner package with 6/10 feet extension pole, replaceable dome mitts and cleaning solution	Nos. 3	N.A
2.	Hard Disk Drives	3.5" 3 TB 12k 64 MB Cache, SATA 6.0Gb/s	Nos. 09	Minimum 1 year manufacturer's warranty
3.	Server RAM	4GB SODIMM 1333 MHz DDR3 ECC-Single Rank	Nos. 08	Minimum 1 year manufacturer's warranty
4.	Ethernet Adaptor	10/100/1000 base-T Gigabit Ethernet card	Nos. 05	N.A
5.	Optical Mouse	HP ,Dell , Lenovo or Equivalent	Nos.20	N.A
6.	Keyboard	HP ,Dell , Lenovo or Equivalent	Nos.20	N.A
7.	KVM Switch	8port USB	Nos.02	N.A
8.	Headphones	Logitech, A4 tech or Equivalent	Nos.05	N.A
9.	External DVD / CD writer	USB 2.0/3.0	Nos.02	Minimum 1 year manufacturer's warranty
10.	External Portable HDD	Brand: Seagate, Western digital or Equivalent 3TB external Hard disk (USB 3.0 with Shock	Nos.4	Minimum 1 year manufacturer's

		Proof enclosure)		warranty
11.	Power Cables	Male/Female power cables standard	Nos.24	N.A
12.	Power Cables	3 pin power cable Standard	Nos.24	N.A
13.	VGA Cable	Standard VGA Cable 3x10m, 3x20m	Nos.06 each	N.A
14.	HDD	1TB, SATA, 7.2krpm	Nos. 06	Minimum 1 year manufacturer's warranty
15.	DDR 3 RAMs	2 GB , DDR3 , 1066 Mhz,1333Mhz or 1600 Mhz	Nos. 08	Minimum 1 year manufacturer's warranty
16.	DDR 2 RAMs	2 GB , DDR2 , 800 Mhz 1066 Mhz	Nos. 08	Minimum 1 year manufacturer's warranty
17.	Console Cable with USB convertor	Standard Console Cable with Serial to USB convertor	No.5	N.A
18.	Range Extender	Ethernet Rang Extender 100m full Duplex	No. 10	Minimum 1 year manufacturer's warranty
19.	PoE Injector	standard PoE Extender	No. 05	N.A
20.	USB to RS 485 Converter	Industrial grade mini RS485 to USB converter	Nos. 6	N.A
21.	Cat-6 Cable	STP, full Copper (Brand AMP, Clipsal, Net Key or Equivalent) With PVC Pipe 1" Dia, Bends, T type Bends Termination Box	3,000 meter	N.A
22.	CAt-6 Cable	UTP, Full Copper (Brand AMP, Clipsal, Net Key or Equivalent)	6,000 meter	N.A
23.	Digital Multi Meter	standard measurement with backlit LED	Nos.2	N.A
24.	Laser temperature gun	3 to 100 C	Nos.1	N.A
25.	RJ 45 Connector	Cat - 6 Standard Connector	Nos.10 Box	N.A
26.	2D Barcode Scanner and Reader	Scan Volume :60 Cubic inches Scan Pattern :140 Scan Lines Scan Rate :1456 Scan lines/Second Minimum Resolution :5 Mil Depth Of Field : 0-5.5" Minimum Print Contrast Ratio : 25% Skew (Yaw) : ±60° Pitch : ±60°	No.04	N.A
27.	Tool Kit	Network Technician Tool Kit (Cable Puncher, Striper, Palier, Screw Drivers, Cable Tester, etc.)	No. 02	N.A
28.	Media Converters	Mini display port to HDMIx2, mini display port to VGA x2,	Nos. 04	N.A
29.	Tagging Machine for tag printing	Cable Tagging Machine with Tag's	No.01	N.A
30.	Microphones	Collar Mic (Beyer dynamic TS 100 MK II) and Wireless Mic (Beyer dynamic SME 180 213.400 MHZ)	Nos. 03	N.A
31.	Precision Tools	for Circuit Board repair	Nos.2	N.A

32.	LAN Cable Tester Digital	Checks cable length and wiring error such as: open circuit, short circuit, jumper wire, reverse connection or cross-talk interference	Nos.1	N.A
33.	HDMI	10 Meter HDMI 1.4k, Thomson or Equivalent	Nos. 18	N.A
34.	Convertors	Display port 1.2 to DVI-I	Nos. 10	N.A
35.	Convertors	DVI -I to HDMI (Active Adopter)	Nos. 10	N.A

LOT # 30
IP CCTV Camera

Sr. No	Parts Name	Description (Minimum Specifications)	Qty.
1	IP CCTV IR Bullet Fixed Camera(outdoor)	2 MP or higher Progressive Scan CMOS Sensor Multicolor and Black/White - Illumination on IR On and IR Off LUX Rating: 0.01 Lux(Quarter Moon) , 0.1Lux(Full Moon) Multicolor Auto ICR in - Day/Night Mode Electronic Shutter, Minimum IR Distance 20m 2D/3D DNR - WDR (Wide dynamic range), - Gain Control - Defogging - White Balance Lens: - Aperture Ratio F1.4 or higher 2.8-3.6mm Fix Lens - Auto Iris - Video Encoding/Compression H.264 , MJPEG Resolution 1920x1080 , 1280x720 Frame Rate 25/30fps Network Support: - RJ45 10/100 Protocols: ICMP, HTTP, HTTPS, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, QoS, IP,IPv6 IP Address Filtering, 802.1x Authentication Other Features: - Multiple Streaming - Privacy Protection - Manual and Schedule recording - Built-in Motion Detection - ONVIF - Alarm Input/output - White Balance - Backlight Compensation - PoE IEEE 802.3af - IP66 Weather Protection - Housing/Brackets Complete from All Aspects, - Fully Compatible with Milestone Enterprise 7.0	Nos. 50
2	IP CCTV IR Bullet Motorized Lens Camera	3 MP or higher Progressive Scan CMOS Sensor Multicolor and Black/White - Illumination on IR On and IR Off LUX Rating: 0.01 Lux(Quarter Moon) , 0.1Lux(Full Moon)	No. 20

	(outdoor)	• Multicolor Auto ICR in Day/Night Mode Electronic Shutter • Minimum IR Distance 20m • 2D/3D DNR • WDR (Wide dynamic range), Gain Control • Defogging • White Balance Lens: • Aperture Ratio F1.4 or higher • 2.8-10mm or higher Motorized Zoom Lens • Auto Iris • Video Encoding/Compression H.264,MJPEG • Resolution 1920x1080 , 1280x720 Frame Rate 25/30fps Network Support: • RJ45 10/100 Protocols: ICMP, HTTP, HTTPS, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, QoS, IP,IPv6 IP Address Filtering, 802.1x Authentication Other Features: • Multiple Streaming • Privacy Protection • Manual and Schedule recording • Built-in Motion Detection • ONVIF • Alarm Input/output • White Balance Backlight Compensation • PoE IEEE 802.3af • IP66 Weather Protection, Housing/Brackets Complete from All Aspects, • Fully Compatible with Milestone Enterprise 7.0	
3	Milestone DLK	Milestone DLK's	No. 75

Note: One Year Parts and Labor warranty for all components on site.

LOT #31
IP Telephone

Sr. No	Parts Name	Description (Minimum Specifications)	Qty	Warranty
1	IP-Phone	Speakerphone Full-duplex speakerphone Headset support RJ9 interface Graphical display A white backlit, monochrome, 396 x 162 pixel-based display with anti-glare screen Four soft key buttons and a scroll toggle bar or Higher Compatible with Cisco Discovery Protocol and IEEE 802.1 p/q tagging and switching. 10/100BASE-T Ethernet connection through two RJ-45 ports, one for the LAN connection Compatible with Cisco Unified Communications Manager. Codec support G.711a, G.711, G.729a, G.729b, G.729ab and iLBC audio-compression codecs are supported. IEEE 802.3af PoE	No. 15	Minimum 1 year standard manufacturer's warranty

LOT # 32**Server**

Sr. No	Description (Minimum Specifications)	Qty	Warranty
1	Processors: 2 x Intel E5-2630V3 Processor, 2.4 GHz, 8 Core RAM: 32GB (2 x 16GB) RDIMM DDR4 2133 MHz 1066MHz or higher support 24 DIMMS HDD: 7 x 600GB SAS 10K 2.5" support at least 27 HDDs or higher Graphics Card : NVIDIA NVS series 1GBB or higher I/O Slots : at least 4 PCIe slots Internal RAID Controller: Supporting RAID Level 0,1, 10, 5, 6 with 1GB Flash backed cache Network Card: Quad port NIC card 10/100/1000 Power Supply: redundant power supplies. Onboard Video Support: 32MB memory Remote Management: Integrated Remote KVM feature and virtual media support. Form Factor: 2U	NO. 03	Minimum 1 year standard manufacturer's warranty

LOT #33**LAPTOP**

Qty (06)		
Sr. #	ITEM	DESCRIPTION (Minimum Specifications)
1	Processor	Intel® 5 th Generation Core™ i7 or higher
2	Mother Board	Intel Chipset
3	Memory	8 GB of DDR-III 1333 MHz
4	Hard Disk Drive	Min 1TB SATA-II with 7200 RPM or higher
5	Super Drive	CD+/-RW and 8X DVD RW 16X DVD R or higher, compatible with Microsoft Windows and Linux.
6	Video/Display Card	NVIDIA with 1 GB dedicated memory or higher
7	Sound Card	Integrated
8	Network Adapter	On-Board 10/100/1000 Base-T Ethernet card (Microsoft Windows, Linux Supportive)
9	Display	15.6" SXGA TFT Active Matrix Display
10	Integrated I/O Interfaces like	Min 2 USB Ports (1 X 2.0 & 1 X 3.0). 1 X RJ45 for Ethernet, External VGA /HDMI, Card Reader and other standard features
11	Wireless Connectivity	Wireless 802.11abg 54 Mbps or higher, Microsoft, Linux Supportive.
12	Batteries & Power Adapter	Battery pack with estimated 5 to 6 hours' battery life or higher
13	Mouse & Key Board	Standard keys pad and integrated Touch Pad
14	Carrying Case/Bag pack	Same brand
15	Camera	Built-in HD(720p)
Optional (Quote Separately)		
16	OS	Microsoft Windows 10 (OEM)
NOTE: 1Year Parts and Labor warranty for all components on site		

LOT # 34
Security Equipment

Sr. No	Parts Name	Description	Unit	Qty	Warranty
1	Walki Talki	Output: ≤5W, Frequency (UHF): 400.00-470.MHz, 16 Channels. Low Battery Warning. Over Voltage or Low Voltage Protection. Rang: up to 6km1500 mAh Li-on Battery or higher, 10 Hour Backup time	No	40	1 year manufacturer's warranty
2	Torches	Rechargeable Flashlight LED/Bulb Type CREE XR-E Q5 LEDLEDs 1, Brightness 150LM, Battery Mode 18650, 3.7V, 2200mAh, Body Material Aircraft Aluminum, Included Batteries, ICR18650 battery x 1	No	20	N/A
3	Whistle	Standard Blowing Whistle Mattel Body	No	50	N/A

FORMS & OTHER REQUIRED DOCUMENTS

ANNEXURE-B

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.

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

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

We remain,

Yours sincerely,

Authorized Signature

(In full and initials)

Name and Designation of Signatory

Name of Firm

Address

ANNEXURE-C

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 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:

ANNEXURE-D**Price Schedule/ Financial Cost Sheet (For each Lot)**

Sr. No.	Description	No of Units/QTY (1)	Unit Rate (Excl. Taxes) Rs. (2)	Total Taxes (3)	Unit Rate (Incl. all Taxes) Rs. (4=2+3)	Total Cost (Incl. all Taxes) Rs (5=1x4)
1						
2						
Total Bid Price						X

Notes to Price Table:

- i.** **X** will determine the total bid cost for all items under each Lot.
- ii.** Prices must be quoted for all items under each Lot.
- iii.** The Purchaser reserves exclusive rights to decrease the quantities of materials / services mentioned vide this tender document.

Total Cost (in words) Rs. _____

Date _____

Signature of authorized person

Name:

(Company Seal)

In the capacity of
Duly authority by

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

ANNEXURE-E

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

ANNEXURE-F

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:

ANNEXURE-G

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:

ANNEXURE-H

(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.

[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. 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

ANNEXURE-I

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 eight (28) 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. _____ (2% of the contract value) valid from the date of issue until all obligations have been fulfilled in accordance with the Contract;

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

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

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

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

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

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

Date this _____ day of 2016.

GUARANTOR

Signature _____

CNIC # _____

Name _____

Designation _____

Address _____