



GOVERNMENT OF PAKISTAN
OFFICE OF THE DEPUTY DIRECTOR
AEOI ZONE, LAHORE
LARGE TAXPAYERS' OFFICE
58 A/C-III, Gulberg-III, Lahore



TENDER DOCUMENTS FOR
PROVISION OF WORK SPACE AS PER GIVEN LAYOUT,
SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL
EQUIPMENTS (INCLUDING ELECTRIC WIRING &
GENERATOR) AND SHIFTING, INSTALLATION &
REPAIRING OF NETWORKING & IT EQUIPMENTS
FOR NEW OFFICE BUILDING OF AEOI ZONE, LAHORE AT
SIXTH FLOOR OF THE BUILDING SITUATED AT 10 BABAR
BLOCK, NEW GARDEN TOWN LAHORE

Tender Issuance Date: 15.03.2024

Bid Submission Date: _____

AEOI ZONE, LAHORE

C.No. (AEOI Zone)/ Bud/ LHR/

Dated: - _____

SUBJECT: Provision of Work Space as per given Layout, Shifting, Installation & Repairing of Electrical Equipment (including Electric Wiring & Generator) and Shifting, Installation & Repairing of Networking & IT Equipment for New Office Building of AEOI Zone, Lahore.

| | |
|---|------------------------------------|
| Organization Name | Commissioner IR, AEOI Zone, Lahore |
| Address | 58 A/C-III, Gulberg-III, Lahore |
| City | Lahore |
| Tele No. | 042-99333065, 99333068 |
| Tender document No. | |
| <p>1. <u>Description & Instructions</u></p> <p>a. AEOI Zone, LTO, Lahore, Federal Board of Revenue (hereinafter called AEOI Zone, Lahore/Purchaser) invites sealed tenders/bids from reputed Firms/Companies / Manufactures / vendors / dealers etc. for Provision of Work Space as per given Layout, Shifting, Installation & Repairing of Electrical Equipment (including Electric Wiring & Generator) and Shifting, Installation & Repairing of Networking & IT Equipment for New Office Building of AEOI Zone, Lahore on Turnkey Basis.</p> <p>b. If you have doubt as to the meaning of any portion of the specifications or other terms and conditions you may seek clarification from Accounts Branch, AEOI Zone, Lahore on 042-99333068.</p> <p>c. The Commissioner Inland Revenue, AEOI Zone, Lahore reserves the right to reject all bids at any time prior to award of Contract (s) without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder of the grounds thereof.</p> <p>d. Income Tax / Withholding Tax will be deducted in accordance with the law. The Sales Tax shall also be deducted in accordance with the law.</p> <p>2. <u>Delivery Schedule.</u></p> <p>The Provision of Work Space as per given Layout, Shifting, Installation & Repairing of Electrical Equipment including Electric Wiring & Generator and Shifting, Installation & Repairing of Networking & IT Equipment for New Office Building of AEOI Zone, Lahore, should be completed within or before three (3) months of date of award of contract.</p> <p>3. <u>Performance Guarantee.</u></p> <p>The successful bidder will be required to furnish performance guarantee @ 10% of the amount as per PPRA rule 39.</p> <p>4. <u>Penalty:</u></p> <p>For failure to comply with delivery/installation schedule of Supply Order (s) to be issued against this tender document, penalty will be imposed on defaulting Supplier as under:</p> <p>a. 1% of the cost of entire supply order of such supply order (s) as remains un-supplied / un-completed for every day up to maximum of 5% for 10 days exceeding the supply period.</p> <p>b. If the required supplies / installation are not supplied even after payment of penalty for 10 consecutive days, the Commissioner Inland Revenue, AEOI Zone, Lahore reserves the right to cancel the supply / work order and to purchase required items elsewhere at risk and cost of the defaulting Supplier.</p> <p>5. <u>Terms & Conditions.</u></p> <p>1. As per rule 36(b) of the PPRA Rule, single stage two Envelop procedure will be adopted, the bid shall comprise the package, containing two separate envelopes and contain financial proposal and technical proposal. The envelop shall mark as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in the bold and legible letters to avoid confusion. Initially only envelop marked as "TECHNICAL PROPOSAL" shall be opened. The envelop marked as "FINANCIAL PROPOSAL" shall remain in the custody of AEOI Zone, Lahore, without being opened. The Financial proposal of bid shall be opened publicly at the time, date and venue announced and communicated to bidders in advance. After the evaluation and approval of technical proposal, the procuring agency, shall at a time with in the validity period, publicly open the financial proposal of technically accepted bids. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders.</p> <p>2. A pre bid meeting will be held on 16.04.2024 at 12:00 Noon in the office of Chairman Procurement / Purchase Committee AEOI Zone, Lahore.</p> <p>3. The prices should be firm without involving any foreign exchange.</p> <p>4. Tender must be accompanied by bank guarantee for an amount not less than 2% (two percent) of total tender value to be valid for 180 days in the form of bank guarantee/call deposit or pay order in the name of Commissioner Inland Revenue, AEOI Zone, Lahore issued by any scheduled bank of Pakistan.</p> <p>5. The Bidder shall furnish as part of his bid, a call deposit / Pay Order equivalent to 2% of the total value of the bid in favor of Commissioner Inland Revenue, AEOI Zone, Lahore. Any bid not accompanied by Earnest Money shall be rejected without any right of appeal. In case of cancellation of Purchase Order on default of the Supplier, the earnest money shall be forfeited in favor of the Commissioner Inland Revenue, AEOI Zone, Lahore".</p> <p>6. Tender documents/form can be obtained from the office of undersigned against non-refundable amount of</p> | |

- Rs. 3,000/- per tender on any working day during office hours till a day earlier from the opening of the tender.
7. Tender will be received manually on or before 10:00 AM on 18.04.2024, however a representative should be present at the time of opening date and time.
 8. There will be no sale of tender on the date of opening of tender.
 9. Conditional tender / bid will not be accepted.
 10. Copy of registration with sales tax department should be produced at the time of issuance of tender documents and with your bid schedule.
 11. The tender will be executed as per PPRA rule 12(1) of PPRA Ordinance 2020.
 12. Quoted rates shall be applicable up to six (6) months.
 13. Rates quoted must be inclusive of all duties / taxes / delivery and installation charges at the office building.
 14. Bidding Form Annexure "A" must be duly filled in, stamped and signed by authorized representative of the bidder.

Warning

There will be no compromise on quantity & quality, originality and on required specifications of work. So, mention clearly, Brand Name, Quantity and original specifications of the product.

Payment

1. The payment will be made on the supply/installation of items and issuance of inspection report of Procurement/Purchase Committee AEOI Zone, Lahore and clearance of bill from AGPR, Lahore.
2. 100% payment of the total value of the bill / supply order will be released subject to:
 - a) Payment will be made on submission of bill in accordance with the terms & conditions: - mentioned in this tender document.
 - b) 2% bid security / earnest money will be released to the bidder after 30 days of the successful completion of contract / supplies and subject to satisfaction by this office.

Sealing and Marking of Bids.

The bids shall be submitted in sealed envelopes marked as under: -

Muhammad Ijlal Khan
Additional Commissioner Inland Revenue
Chairman Purchase Committee
AEOI Zone, Lahore.

Dead Line of Submission of bids

All bids must be delivered in the Office of the undersigned on or before the prescribed deadline which is **10 AM on 18.04.2024.**

Opening of Bids:

The Purchaser will open the Technical bids in the presence of bidder / representative who choose to attend at 12:00 AM on 18.04.2024 at the below mentioned address.

Address: Office of the Commissioner Inland Revenue, AEOI Zone, Lahore, 58 A/C-III, Gulberg-III, Lahore.

Warranty

- The Supplier shall warrant / be responsible that all items of supply order (s) shall have no defect arising from any act or omission of the Supplier that may develop under normal supply of goods under the conditions prevailing at final destination.
- The Supplier shall warrant / responsible that all items of supply order (s) shall have original, quantity & quality wise and according to the required specification.

Bidders must fill and attach all Annexures:

- All the bidders must attach and fill all annexures enclosed in this bid document and especially:
 - a) Company's profile, list of clients with their telephone numbers.
 - b) Copies of Income Tax and Sales Tax Registration Certificates.
 - c) A Call deposit being 2% of the total bid value as Earnest Money / Bid Security in favor of Commissioner Inland Revenue, AEOI Zone, Lahore.
 - d) Brochures and other technical material of the quoted items.
 - e) Companies / agencies will produce capability, relevant experience certificate from the principal (if required) that the Vendor is Sole Distributor / Authorized Dealer / Authorized Re-Seller etc.
 - f) Affidavit (on legal paper) that the Supplier / Company is neither blacklisted nor in litigation with any of its clients.

(Muhammad Ijlal Khan)
Additional Commissioner Inland Revenue
Chairman Purchase Committee
AEOI ZONE, LAHORE

Signature & Stamp of the Bidder on every Page of the Bid

1. **ANNEX A** BASIC INFORMATION
2. **ANNEX B** MANDATORY REQUIREMENTS
3. **TECHINICAL PROPOSAL**
 - A. **ANNEX C** DECLARATION OF TECHNICAL ELIGIBILITY
 - B. **ANNEX D** SUMMARY OF TECHNICAL EVALUATION CRITERIA
 - C. **ANNEX E** PRELIMINARY TECHNICAL EVALUATION CRITERIA FOR PROVISION OF WORK SPACE AS PER GIVEN LAYOUT, SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING & GENERATOR AND SHIFTING, INSTALLATION & REPAIRING OF NETWORKING & IT EQUIPMENT
 - D. **ANNEX F** TECHNICAL PROPOSAL PART I FOR PROVISION OF WORK SPACE AS PER GIVEN LAYOUT
 - E. **ANNEX G** TECHNICAL PROPOSAL PART II FOR SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING AND GENERATOR
 - F. **ANNEX H** TECHNICAL PROPOSAL PART III FOR SHIFTING, INSTALLATION & REPAIRING OF NETWORKING & IT EQUIPMENT
4. FINANCIAL PROPOSAL
 - A. **ANNEX I** FINANCIAL PROPOSAL PART I FOR PROVISION OF WORK SPACE AS PER GIVEN LAYOUT
 - B. **ANNEX J** FINANCIAL PROPOSAL PART II FOR SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING AND GENERATOR
 - C. **ANNEX K** FINANCIAL PROPOSAL PART III FOR SHIFTING, INSTALLATION & REPAIRING OF NETWORKING & IT EQUIPMENT
5. **ANNEX L** APPROVED LAYOUT

BASIC INFORMATION

| SR. No. | PARTICULARS | DESCRIPTION | ATTACHMENTS (Page Nos. or Annexure Nos.) |
|---------|---|-------------|--|
| 1 | Name of Firm. | | |
| 2 | Address (Telephone, Fax, & Email) | | |
| 3 | Year of Establishment (Attach any documentary evidence or furnish a statement on Oath) | | |
| 4 | Weather Pay Order as Earnest Money equal to 2% of the total value of bid is enclosed) | | |
| 5 | Annual Turnover Supported by latest Sales or Income Tax Return | | |
| 6 | Enlistment Certificate (Copy of Certificate enlisted with Govt./Semi Govt. or Organization (if any) | | |
| 7 | Assignments in Hand (Current) | | |
| 8 | Relevant Experience in executing similar assignments | | |
| 9 | Clientele attached as separate Annexure (if necessary) | | |
| 10 | Affidavit (that the firm has not been blacklisted by private, Govt. Semi Govt./autonomous body) | | |
| 11 | Managerial / Technical Capability (List of experienced manpower/workforce relevant to job) | | |
| 12 | Name of Contact Person Telephone, Fax & Mobile No. | | |

MANDATORY REQUIREMENTS

The following are the minimum requirements that must be possessed by the Bidder/Applicant:

| Sr.# | Requirement | Available | Not Available |
|------|---|-----------|---------------|
| 1 | The bidder must possess a Certified IT Team of at least 2 IT Engineers having relevant BS/CS degree from a recognized institution, with at least 2 years' experience in a reputed firm, (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.) | | |
| 2 | The bidder must possess a Certified Interior Designing Team of at least 2 Registered Architects / Qualified Interior Designers having at least BS degree from a recognized institution, with at least 2 years' experience in a reputed firm (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.) | | |
| 3 | The bidder must possess an Electrical Engineering team comprising at least 01 Registered Electric Engineer having BS degree from a recognized institution (who will provide electrical design) with at least 2 years' experience in a reputed firm (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.) | | |
| 4 | Annual turnover in same business is Minimum Rs.500M. (attach bank statement/ audited financial statement/copy of Income Tax/Sales Tax Return etc.) | | |
| | Note: Those applicants who fail to meet all of the above stated mandatory requirements shall not be further evaluated and shall be declared unqualified for participation in the procurement process. | | |

Declaration of Technical Eligibility

(to be submitted on company's letter head)

Date:

I, the undersigned as representative of M/s.....

do hereby affirm that our company / firm/organization is eligible because we:

- Are registered company /firm/organization (Attach copy of incorporation/regd certificate)
- Are registered with NTN/STN / Active in Taxpayers list (Attach copy of NTN certificate)
- Are ISO certified company / firm/organization. (Attach copy of certificate if certified)
- Are not bankrupt or in the process of going bankrupt.
- Have not been convicted for an offense concerning professional conduct.
- Have not been guilty of grave professional misconduct (proven by any means which the contracting authorities can justify).
- Have fulfilled obligations related to payment of taxes.
- Are not guilty of serious misinterpretation in supplying information.
- Are not in situations of conflict of interest (with prior relationship to project or family or business relationship to parties in AEOI Zone, LTO, Lahore).
- Were not declared at serious fault of implementation owing to a breach of their contractual obligations.
- Have no relation, direct or indirect, with any terrorist or banned organizations.
- Are not on any list of sanctioned parties issued by the Pakistan Government, DIFD, USAID, UN agencies, European Union and others.
- Are not blacklisted by any Local/International organization, Government/semi-Government department, NGO or any other company/organization.
- Have not been reported for/under litigation for child abuse.
- **Has capacity to perform all tasks in this tender on turnkey basis (attach documents as required in enclosed annexures).**

Declared By:

(Signature)
(Name & Designation)

Witness by: _____
Signature: _____
Name: _____
CNIC: _____

Summary of Technical Evaluation Criteria

| Sr. No. | Sections | Score |
|---------|---|-------|
| 1. | Preliminary Technical Evaluation Criteria Provision of Work Space as per given Layout, Shifting, Installation & Repairing of Electrical Equipment (including Electric Wiring & Generator) and Shifting, Installation & Repairing of Networking & IT Equipment | 100 |
| a. | Technical Capabilities | 40 |
| b. | Organizational Sales | 40 |
| c. | Financial Strength | 20 |
| 2. | Technical Proposal Part I Provision of Work Space as per given Layout | 50 |
| 3. | Technical Proposal Part II Shifting, Installation & Repairing of Electrical Equipment including Electric Wiring & Generator | 50 |
| 4. | Technical Proposal Part III Shifting, Installation & Repairing of Networking & IT Equipment | 50 |
| Total | | 250 |

PRELIMINARY TECHNICAL EVALUATION CRITERIA FOR PROVISION OF WORK SPACE AS PER GIVEN LAYOUT, SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING & GENERATOR AND SHIFTING, INSTALLATION & REPAIRING OF NETWORKING & IT EQUIPMENT FOR NEW OFFICE BUILDING OF AEOI ZONE, LAHORE.

| Sr. No. | Evaluation Parameter For Bids & Description | Max. Points | | | | | | | | | | |
|-------------------------|---|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|
| 1 | Preliminary Technical Evaluation Criteria Provision of Work Space as per given Layout, Shifting, Installation & Repairing of Electrical Equipment including Electric Wiring & Generator and Shifting, Installation & Repairing of Networking & IT Equipment | | | | | | | | | | | |
| a | Technical Capabilities: The Bidders having in-house technical team comprising: | 40 | | | | | | | | | | |
| i | <p>Certified IT Team of at least 2 IT Engineers having relevant BS/CS degree from a recognized institution, with at least 2 years' experience in a reputed firm, (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.)</p> <table><tr><th>No. of IT Engineers</th><th>Points assigned</th></tr><tr><td>02</td><td>10</td></tr><tr><td>03</td><td>12</td></tr><tr><td>04</td><td>14</td></tr><tr><td>05</td><td>15</td></tr></table> | No. of IT Engineers | Points assigned | 02 | 10 | 03 | 12 | 04 | 14 | 05 | 15 | 15 |
| No. of IT Engineers | Points assigned | | | | | | | | | | | |
| 02 | 10 | | | | | | | | | | | |
| 03 | 12 | | | | | | | | | | | |
| 04 | 14 | | | | | | | | | | | |
| 05 | 15 | | | | | | | | | | | |
| ii | <p>Certified Interior Designing Team of at least 2 Registered Architects / Qualified Interior Designers having at least BS degree from a recognized institution, with at least 2 years' experience in a reputed firm (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.)</p> <table><tr><th>No. of Regd. Architects</th><th>Points assigned</th></tr><tr><td>02</td><td>10</td></tr><tr><td>03</td><td>12</td></tr><tr><td>04</td><td>14</td></tr><tr><td>05</td><td>15</td></tr></table> | No. of Regd. Architects | Points assigned | 02 | 10 | 03 | 12 | 04 | 14 | 05 | 15 | 15 |
| No. of Regd. Architects | Points assigned | | | | | | | | | | | |
| 02 | 10 | | | | | | | | | | | |
| 03 | 12 | | | | | | | | | | | |
| 04 | 14 | | | | | | | | | | | |
| 05 | 15 | | | | | | | | | | | |
| iii | <p>Electrical Engineering team comprising at least 01 Registered Electric Engineer having BS degree from a recognized institution (who will provide electrical design) with at least 2 years' experience in a reputed firm (attach relevant documentary evidence like copy of relevant degree, appointment letter in the firm/company, experience certificate etc.)</p> <table><tr><th>No. of Regd. Engineers</th><th>Points assigned</th></tr><tr><td>01</td><td>10</td></tr><tr><td>02</td><td>12</td></tr><tr><td>03</td><td>14</td></tr><tr><td>04</td><td>15</td></tr></table> | No. of Regd. Engineers | Points assigned | 01 | 10 | 02 | 12 | 03 | 14 | 04 | 15 | 10 |
| No. of Regd. Engineers | Points assigned | | | | | | | | | | | |
| 01 | 10 | | | | | | | | | | | |
| 02 | 12 | | | | | | | | | | | |
| 03 | 14 | | | | | | | | | | | |
| 04 | 15 | | | | | | | | | | | |
| b | Organization Sales | 40 | | | | | | | | | | |
| ii | <p>Running Projects with Federal/Provincial Govt. or reputed Multinational/National Organizations</p> <p>a. 05 Projects of at least Rs. 500 Million in total = 15 Marks</p> <p>b. Proportionate marking for others</p> <p>Note: Attach Purchase Order/Supply Order of the project or any Agreement in respect of the project along with document indicating cost and scope of project. No marks shall be awarded if Letter of Award or Agreement and/or proof of cost/scope of respective project is not attached</p> | 15 | | | | | | | | | | |
| ii | <p>Completed Projects in last 5-7 years with Federal/Provincial Govt. and reputed Multinational/National Organizations (Completion Letters / Performance Certificates)</p> <p>a. 05 Projects of at least Rs. 1 Billion in total = 15 Marks</p> <p>b. Proportionate marking for others</p> <p>Note: Attach Purchase Order/Supply Order of the project or any Agreement in respect of the project along with document indicating cost and scope of project. No marks shall be awarded if Letter of Award or Agreement and/or proof of cost/scope of</p> | 15 | | | | | | | | | | |

| | | |
|----------|--|-----------|
| | respective project is not attached | |
| iii | Duration of Business in Pakistan (attach relevant documentary evidence) Total Experience of the company/firm/business in same field in which they are dealing a. For experience of 15 years or more = 10 Marks b. Proportionate marking for others | 10 |
| C | Financial Strength / Position | 20 |
| i | Annual turnover in same business (attach bank statement/ audited financial statement) a. For annual turnover of Rs. 2 Billion or above = 15 Marks b. Proportionate marking for others. | 15 |
| ii | Available bank credit line equal to 500 Million or above. | 5 |
| 2 | Technical Proposal Part I Provision of Work Space as per given Layout | |
| | Bids responding to 100% description of all goods as per Requirement = 50 Marks Bids not responding to 100% description of goods = 0 Marks | 50 |
| | Bids responding to 100% description of all goods as per Requirement = 50 Marks Bids not responding to 100% description of goods = 0 Marks | |
| 3 | Technical Proposal Part II Shifting, Installation & Repairing of Electrical Equipment including Electric Wiring & Generator | |
| | Bids responding to 100% description of all goods as per Requirement = 50 Marks Bids not responding to 100% description of goods = 0 Marks | 50 |
| 4 | Technical Proposal Part III Shifting, Installation & Repairing of Networking & IT Equipment | |
| | Bids responding to 100% description of all goods as per Requirement = 50 Marks Bids not responding to 100% description of goods = 0 Marks | 50 |

Technical Evaluation Criteria:

- 1) Only Bids of Bidders who qualify the mandatory requirements as per Annex-B would be subject to detailed technical evaluation.
- 2) Technical evaluation of bids shall be as per given in Tables annexed with this document.
- 3) Bidders must submit as part of their Technical Proposal all information relevant to technical evaluation as prescribed
- 4) A bidder must score at least 70% marks overall and 50% in each category of Sr. No. 1(a), (b) & (c) as given in Annex-E in order to qualify the technical evaluation step.

TECHNICAL PROPOSAL PART I PROVISION OF WORK SPACE AS PER GIVEN
LAYOUT

| Sr. No. | DESCRIPTION OF ITEM | SPECIFICATION/BRANDS/DESCRIPTION ETC. OFFERED BY THE BIDDER |
|---------|--|---|
| 1 | Paint Work: | |
| 1.1 | Matt Enamel Paint (Internal Plastered Surfaces Including Staircase). Provide and apply Matt Enamel paint (Jotun / ICI or Berger) minimum three coats of approved shade over a coat of primer to internal surfaces (ceiling & walls) prepared smooth with carborandum stone, filling the depression with putty including scaffolding, etc. complete in all respect as per specifications. | |
| 1.2 | Matt Enamel Paint (MDF). Provide and apply Matt Enamel paint (Jotun / ICI or Berger) minimum three coats of approved shade over a coat of primer to wood surfaces (ceiling & partitions), including scaffolding, etc. complete in all respect as per specifications. | |
| 2. | Stud Partition, Cladding, Portal, Paneling, Molding, Post & Lintel. | |
| 2.1 | Full Height MDF Board Stud Partition without Paint Finish. Provide and install in position 4" thick Stud Partition, consisting of solignum & partal wood internal framing of approved sections, 10mm thick MDF board (Lasani or approved equivalent) E1 grade fixed on all around of wooden frame up to slab with epoxy filling & fiber tape on joints, metal tape on edges with cutting for electric switch board, including all other hardware, wastage, glues, lifting, expansion bolts of approved sizes etc., complete as per specifications. (Excluding the cost of Skirting). For payment net one side of partition area without thickness will be measured & Door area will be deducted. | |
| 2.2 | Low Height MDF Board Stud Partition without Paint Finish. Provide and install in position 4" thick Stud Partition, consisting of solignum & fire rated paint treated partal wood internal framing of approved sections, 10mm thick MDF board (Lasani or approved equivalent) E1 grade fixed on all around of wooden frame with epoxy filling & fibre tape on joints, metal tape on edges with cutting for electric switch board, Solid Oak Wood Coping with approved Polish Finish, including all M.S. , wastage, glues, lifting, expansion bolts of approved sizes etc., complete as per specifications. (Excluding the cost of Skirting). For payment net one side of partition area without thickness will be measured. | |
| 2.3 | MDF Board Cladding without Paint Finish. Provide and install in position MDF Board Cladding, consisting of solignum & fire rated paint treated partal wood internal framing of approved sections, 12mm thick MDF board (Lasani or approved equivalent) E1 fixed on all around of wooden frame, epoxy filling & fibre tape on joints, metal tape on edges with cutting for electric switch board, 12mm x 12mm G.I. Angle on bottom, including all other hardware, wastage, glues, lifting, expansion bolts of approved sizes etc., as per specifications. (Excluding the cost of Skirting) | |

| | | |
|-----------|---|--|
| 2.4 | MDF Board Paneling Polish Finish (CIR Room) Provide and install in position MDF Board Paneling, consisting of solignum & fire rated paint treated partial wood internal framing of approved sections, 12mm thick MDF board (Lasani or approved equivalent) fixed on all around of wooden frame, 1/8" thick Oak Veneer Pasted with approved adhesive on MDF board, 1" x 1/2" thick Oak wood vertical strips with approved Polish Finish, including all other hardware, wastage, cutting for electric switch board, 12mm x 12mm G.I. Angle on bottom, glues, lifting, expansion bolts of approved sizes etc., as per specifications. (Excluding the cost of Skirting). For payment net exposed cladding area will be measured. | |
| 2.5 | Wooden Molding Deco Paint Finish (CIR Room) Provide and install in position 1" high x 1 1/2" thick Solid wood for molding with approved Deco Paint Finish, including all hardware, wastages, lifting, cutting, adhesive, etc., complete in all respect as per specifications. For payment net running length of molding will be measured. | |
| 3. | Doors, Windows & Glazing. | |
| 3.1 | Glass Door. Provide and install in position frame-less Glass Door, consisting of 12mm thick clear float glass (tempered) shutter of approved shade, sample & best quality, neoprene gasket, edge polishing, pivot heavy duty floor hinges with S.S. Patch fittings for door machine of approved sample on top & bottom, bottom lock, S.S. Brush Finish customized door handle (as per approved design) on both sides of shutter, including all hardware's, wastage, silicon sealant, lifting, cutting, fixing, etc., complete as per specifications. For payment net glass shutter area will be measured. | |
| 3.2 | Wooden Doors Polish Finish. Provide and install in position wooden door, consisting of 1 1/4" thick hollow core flush shutter (for flush door shutters partial wood infill framing), 1/8" thick Oak Veneer pressed on both side of shutter, 1 1/2" x 4" thick solid Golden Teak wood main frame with approved Polish Finish, including all hardware, making of groove (where required), S.S. hinges & handle, lock, plastic louvers of approved sample, 8mm thick Clear Float Glass Vision Panel (for Toilet / Pantry only) With aluminum chokhat, glue, wastage, Silicone sealant, rubber gasket, lifting, fixing, cutting etc., complete as per specifications. | |
| 3.3 | Wooden Door Formica Finish. Provide and install in position Wooden Doors, consisting of 1 1/4" thick solid core flush shutter (for flush door shutters solignum & Fire Retardant Paint treated partial wood infill framing), approved Formica finish with aluminum chokhat (Tuff Formica textured finish of Baluchistan Lamine or approved equivalent) on both side of shutter with Oak wood polish finish lipping on edges, 4" x 1 1/2" thick natural anodized aluminum frame section of (Pakistan Cable or Newage Cable or Fast Cable or equal quality brand), solignum & Fire Retardant Paint treated partial wood sub-frame of approved sections, 6mm thick clear float glass vision panel & plastic louvers of approved sample, including all hardware, S.S. Handle, S.S. Hinges, | |

| | | |
|-----|--|--|
| | lockset, Door closer, Push plate, glue, silicone sealant, rubber gasket, wastage, lifting, cutting, fixing, making of groove if required etc., complete as per specifications. For payment frame to frame size will be measured. | |
| 3.4 | Wooden & Glass Doors Polish Finish (All Rooms). Provide and install in position wooden & glass door, consisting of 1¾" thick Solid Oak wood frame shutter with approved Polish Finish, 6mm thick clear float glass of approved sample & shade fixed in between of wooden frame shutter, including all hardware, making of groove (where required), pivot heavy duty floor hinges, with Aluminum Chokhat S.S. Handle, lockset, rubber gasket seal / silicone sealant, fixing arrangements, glue, wastage, lifting, cutting etc., complete as per specifications. | |
| 3.5 | Frosted Film (on Door Glass). Provide & apply Frosted film (3M or approved equivalent) on glazing as per approved sample, shade / color and thickness with wastage, complete in all respect as per specifications. | |
| 4. | Miscellaneous Work. | |
| 4.1 | Granite on Window Sill. Provide & Lay ¾" thick Pre-Finised Granite of approved sample for staircase fixed with approved adhesive (DRY BOND - RESICHEME) of required thickness, setting the marble with neat & approved matching pigments, grouting the joints with waterproof grout of Resicheme or approved equivalent as per manufacturer's specifications & instructions, including curing, cleaning, cutting, lifting, hacking of existing surface for bonding where necessary, etc., complete in all respect as per specifications. Basic price of Marble shall be Rs. 1500.00 / SFT | |
| 4.2 | Granite Finish Counter in Toilets & Pantry. Provide & install in position ¾" thick pre-finished granite top with 6 sides chemical treatment (finish as approved) of approved sample with beveled / rounded edges, support with red-oxide treated M.S. Framing, including all hardware, wastage, adhesives, edge making & polishing lifting, etc., complete as per specifications. For payment granite area will be measured. Basic price of Granite shall be Rs. 600.00 / SFT. | |
| 4.3 | Wooden Cabinets in Pantry. Provide & install in position Wooden Cabinets, consisting of solignum & fire rated paint treated partial wood frame of approved sections (where required), 20mm thick Laminate board for structure & shelves with PVC lipping on edges, 12mm thick MDF board (Lasani or approved equivalent) for shutters with formica (Tuff - Formite Formica textured finish of Baluchistan Laminate or approved equivalent) on both side of shutter, 12mm thick White Oak wood polish finish lipping on edges, epoxy filling and fibre tape on sheet joints, including all hardwares, glues, wastage, light pelmet for hanging cabinets, lockset, knobs, hinges, channels, lifting, etc., as per specifications. For payment front elevation area will be measured. | |
| i) | Base Cabinet. | |
| ii) | Hanging Cabinet. | |

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| 4.4 | <p>Mirror in Toilet.</p> <p>Provide and install in position Mirror in toilet, consisting of 5mm thick Belgium Mirror with beveled edge of approved quality, with 12mm thick commercial ply backing, fixed with 30mm x 6mm thick S.S. Flat bracket fix on wall, including wastage, lifting, etc, complete in all respect as per specifications (For payment, net mirror area will be measured).</p> | |
| 4.5 | <p>Windows Roller Blinds.</p> <p>Provide and install in position Roll-up Window Blinds of approved color and specifications of Faber (Denmark) chain operated Roller blind with MERMET (France) Fabric screw with MDF lintel / slab, including all hardware, wastage, lifting, cutting, fixing etc., complete as per specifications. For payment net installed Blind (including top & bottom channel) area will be measured.</p> | |
| 4.6 | <p>Signage & Logo.</p> <p>Provide and install in position Signage Letter & Logo as per manufactures specification & instruction, including all hardware, wastage, lifting, etc., complete in all respect as per specifications.</p> | |
| 4.7 | <p>PVC Skirting.</p> <p>Provide and install in position 65mm high approved quality heavy duty PVC skirting (Rehau - Germany or approved equivalent) with approved adhesive, cutting, wastage, etc., as per specifications. Basic Price shall be Rs. 250.00/ RFT. For payment net running length of skirting will be measured.</p> | |

TECHNICAL PROPOSAL PART II SHIFTING, INSTALLATION & REPAIRING OF ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING AND GENERATOR

| Sr. No. | DESCRIPTION OF ITEM | SPECIFICATION/BRANDS/DESCRIPTION ETC. OFFERED BY THE BIDDER |
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| 1 | <p>LOT- 01 (A) UPS Power for System on WAPDA/Generator.</p> <p>The power cabling should be carried out in such a way all the IT equipment (Desktops, Printers, Fax Machines) should be provided power through UPS. Some additional power points are also required for photo copier machines or other electrical equipment which shall not be supplied UPS power instead those point should be directly on WAPDA/Generator. The cables used for electrical points should be Pakistan Cable or Newage Cable or Fast Cable or equal quality brand and sockets used should be Schneider and Clipsal Electric or equivalent (high quality brand).</p> <p>The bidders are also required to provide samples of the equipment quoted. The details of power points required are as under:</p> <p>Description</p> <p>Power Points UPS with single socket outlet US flat Pin (13 amp)</p> <p>Power Points WAPDA with single socket outlet US Round Pin (5 amp)</p> <p>AEOI wants to ensure that the cabling is aesthetically done in a proper manner so that the visual appearance of the equipment installed is appealing and goes with the layout/design of the room.</p> <p>Terms and Conditions</p> <ol style="list-style-type: none"> 1. The bidder MUST provide proof that the proposed cables and allied components are 100% genuine. 2. Installation, configuration, tagging and testing as per the satisfaction of the customer. 3. Provision of complete layout diagram for power cabling 4. All the cabling should be carried out in a proper structured manner 5. Power cables should be run through separate channels 6. Cables running through the ceiling should be properly protected from damage and 7. should pass through PVC pipes. | |
| 2 | <p>LOT- 01 (B) Power WAPDA, Genset, Earth pith cabling.</p> <p>Power, Control cable and Earth Cable PVC & flexible</p> <ol style="list-style-type: none"> 1. Pakistan Cables or Newage Cable or Fast Cable or equal quality brand. 2. 4 Core _95_ mm (Power Cable) length as per actual (prior survey is recommended) 3. 4 Core _25_ mm (Power Cable) length as per actual (prior survey is recommended) | |

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| | <p>4. 4 Core _16_ mm (Power Cable) length as per actual (prior survey is recommended)</p> <p>5. 1 Core _35_ mm (Earth Cable) (prior survey is recommended)</p> <p>6. 4 Core 110/76 Control Cable (as per requirement)</p> <p>Power Cable for UPS</p> <p>1. Power, Control & Earth Cable Pakistan Cables or Newage Cable or Fast Cable or equal quality brand.</p> <p>2. 4-Core 10 mm (Flexible Power Cable) as per actual.</p> <p>Breakers</p> <p>1. Merlin Gerin/Schneider/ABB or Equivalent.</p> <p>2. All breakers should be branded and with genuine box fittings.</p> <p>3. The Selected Bidder would provide documentary proof for confirmation of the item being genuine.</p> <p>Warranty</p> <p>Minimum 1 year.</p> <p>Cable Ducts</p> <p>Supply and laying of power cable ducts with size associated with the cable capacity along the complete run of all power/control/earth cables.</p> <p>Pipe</p> <p>Supply and laying of PVC/UPVC hard pipe for complete length for the connection of power cables from generator to ATS panel.</p> <p>Cable Items</p> <p>Supply and installation of thimbles, Cable Sleeves, Ties, and other necessary items.</p> <p>Implementation Services</p> <p>1. The selected bidder shall be responsible for the supply, installation & commissioning all online UPSs with local racks.</p> <p>2. Supply and installation of UPS's input & output Distribution Box (DB).</p> <p>3. Supply, laying and connection of power cables for provisioning of power input to UPS and distribution of UPS's power to the selected load.</p> <p>4. Laying of power cable ducts throughout the cable's length.</p> <p>5. Supply and installation of power loop cables for connection of end equipment's.</p> | |
| 3 | <p>LOT-01 (C) Power DB Panel</p> <p>- Main LT Panel DB Bus bar and Breaker as per required (prior survey is recommended).</p> <p>- Manual change over ATS panel Genset & WAPDA (as per requirement)</p> <p>Power DBLP</p> <p>1. Panel box with 14 AWG steel enclosure.</p> <p>2. The box should be populated with the following breakers:</p> <p>a. 125 Amps 3-Pole C.B. (As per requirement)</p> <p>b. 10 Amp Single Pole C.B. (As per requirement)</p> <p>c. 16 Amp Single Pole C.B. (As per requirement)</p> <p>3. Indication Lights.</p> <p>4. Digital Voltmeter and Ammeter.</p> | |

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| | <p>5. Perforated panel.</p> <p>6. Volt & Amp Selector Switches</p> <p>7. Repair or replace any part covered which becomes defective, malfunctions or otherwise fails to conform smooth Operations under normal use and service during the term of this contract of one-year.</p> <p>Power UPS DB For Light and Fan</p> <p>1. Panel box with 14 AWG steel enclosure.</p> <p>2. The box should be populated with the following breakers:</p> <p>a. 63 Amps 3-Pole C.B. (As per requirement)</p> <p>b. 10 Amp Single Pole C.B. (As per requirement)</p> <p>3. Indication Lights.</p> <p>4. Digital Voltmeter and Ammeter.</p> <p>5. Perforated panel.</p> <p>6. Volt & Amp Selector Switches</p> <p>7. Repair or replace any part covered which becomes defective, malfunctions or otherwise fails to conform smooth Operations under normal use and service during the term of this contract of one-year.</p> <p>Power DB AC WAPDA</p> <p>1 Panel box with 14 AWG steel enclosure.</p> <p>2 The box should be populated with the following breakers:</p> <p>a. 150 Amps 3-Pole C.B. (As per requirement)</p> <p>b. 20 Amp Single Pole C.B. (As per requirement)</p> <p>c. 32 Amp Three pole C.B. (As per requirement)</p> <p>d. Indication Lights.</p> <p>e. Digital Voltmeter and Ammeter.</p> <p>f. Perforated panel.</p> <p>g. Volt & Amp Selector Switches</p> <p>h. Repair or replace any part covered which becomes defective, malfunctions or otherwise fails to conform smooth Operations under normal use and service during the term of this contract of one-year.</p> <p>Power DB AC Wapda & Genset</p> <p>1. Panel box with 14 AWG steel enclosure.</p> <p>2. The box should be populated with the following breakers:</p> <p>a. 150 Amps 3-Pole C.B. (As per requirement)</p> <p>b. 20 Amp Single Pole C.B. (As per requirement)</p> <p>c. 32 Amp Three pole C.B. (As per requirement)</p> <p>d. Indication Lights.</p> <p>e. Digital Voltmeter and Ammeter.</p> <p>f. Perforated panel.</p> <p>g. Volt & Amp Selector Switches</p> <p>h. Repair or replace any part covered which becomes defective, malfunctions or otherwise fails to conform smooth Operations under normal use and service during the term of this contract of one-year.</p> | |
| 4 | <p>LOT-01 Category (D)</p> <p>Earth Pit</p> <p>1. Fabrication of Plate Type Earth Pit System for 100KVA Generator at site.</p> <p>2. An earthing pit of 1m x 1m x 2.5 m deep installed with galvanized cast iron plate of 600</p> | |

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| | <p>mm x 6 mm thick shall be provided Twin earth leads of G.I. size 25 mm x 3 mm shall be connected to the earth plate by means of tinned copper lugs and brass nuts and bolts.</p> <p>3. The plaster shall be covered with mixture of charcoal and salt for thickness of 15 cms all around and remaining area filled with general mix of sand & soil. G.I. pipe of 37 mm dia class 'C' shall be installed in the earth pit starting from 15 cms above the earth plate and brought to ground level and shall be provided with a manhole of brick masonry 12" x 12" x 9" (300 mm x 300 mm x 225 mm) around the pipe at ground level with hinged cast iron cover. A bolted and removable link connecting main earth bus outside the pit and portion leading to plates shall be accommodated in this manhole for testing.</p> <p>4. Earthing pit shall be measured as a complete unit including provision of earth electrode (Pipe or plate), Earth leads up to the ground level, chamber, excavation refilling with coal and salt, water arrangements etc. all complete. Earth resistance value should be less than 2 Ohm.</p> <p>5. Inspection of earth resistance values at Site on monthly basis and repair, maintenance/installation of new pit if the value found exceeding 2 ohms.</p> | |
| 5 | <p>LOT-01 Category (E)</p> <p>Concrete PAD for Generator</p> <p>1. The composition of the mounting pad should follow standard practice for the required loading.</p> <p>2. Specifications- 2500-3000 psi (176-211 kg/cm²) concrete reinforced with eight-gauge wire mesh or number 6 reinforcing bars on 12-inch (30-cm) centres.</p> <p>3. The total weight of the mounting pad should be at least equal to the weight of the generator set.</p> <p>4. Suggested concrete mixture by volume is 1:2:3 parts of cement, sand, and aggregate.</p> <p>5. A layer of 8-10 inches (21-26 cm) of sand or gravel should surround the pad for proper support and isolation of a pad located at or below grade.</p> <p>Implementation Services</p> <p>1. Supply, installation & commissioning of 1 x 100 KVA Generator along with all associated electrical panels and accessories and civil work complete in all respect.</p> <p>2. Supply and Installation of ATS panel & Sub-DB.</p> <p>3. Laying of PVC/UPVC/Steel ducts along the route of power cables where required and as per AEOI requirements to provide power to the selected load.</p> <p>4. Laying of power, earth and control cables as per required route.</p> <p>5. Reinstatement of all civil work as per AEOI</p> | |

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| | <p>requirements.</p> <p>6. Fabrication of concrete PAD for Generator.</p> <p>7. Erection of earth pit system.</p> <p>8. Erection of concrete trenches as per requirements.</p> <p>9. Power cable wiring for connection of light plugs/sockets inside room.</p> <p>10. Connection of thimbles/cable sleeves and other necessary items for all the connection points at breakers/Panels etc., laying of power cables, and other civil work.</p> <p>11. Checking of the existing cable connections and re-correction of all the connection points at each panel as per standard, while removing the joints etc.</p> | |
| 6 | <p>LOT-02-A (Power) Shifting, Installation and Repairing Electrical Equipment and Generator:</p> <p>Note: Generator, ATS Panel, Surge Suppressor Panel, Phase Reversal Panel, Power Distribution Panel, UPS Distribution Panel, UPS 20kva and fuel tank:</p> <p>AEOI 58 A/C-III, Gulberg-III, Lahore has the following electrical equipment and generator: ATS Panel, Surge Suppressor Panel, Phase Reversal Panel, Power Distribution Panel, UPS Distribution Panel, UPS 20kVA, and fuel tank to be shifted. AEOI requires the shifting of electrical equipment and generator, as well as the installation of the same for the 6th Floor, 10 Babar Block New Garden Town, Lahore. Additionally, the shifting, installation, and commissioning of a 100kVA generator, along with all associated electrical panels, accessories, and complete civil work, are needed. Bidders must conduct a proper survey of the floor layout and identify termination points for the generator and ATS panel room. The cabling must be carried out in a structured manner with proper ducting and labelling. All electrical power cables must be installed in the all-distribution panel DB.</p> <ol style="list-style-type: none"> 1. Shifting and Installation of ATS panel & Sub-DB. 2. Laying of PVC/UPVC/Steel ducts along the route of power cables where required and as per AEOI requirements to provide power to the selected load. 3. Laying of power, earth and control cables as per required route. 4. Power cable wiring for connection of light plugs/sockets inside room. 5. Connection of thimbles/cable sleeves and other necessary items for all the connection points at breakers/Panels etc., laying of power cables, and other civil work. 6. Checking of the existing cable connections and re-correction of all the connection points at each panel as per standard, while removing the joints etc. | |

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| 7 | <p>LOT-2 Category -B 20Kva UPS Batteries 12volt&7.2Ah: CSB, Long, Power safe Equivalent or higher Key Features</p> <ol style="list-style-type: none"> 1. Performance Characteristics 2. Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding. 3. Not restricted for air transport-complies with IATA/ICAO Special Provision A67. 4. UL-recognized component. 5. Can be mounted in any orientation. 6. Computer designed lead, calcium tin alloy grid for high power density. 7. Long service life, float or cyclic applications. 8. Maintenance-free operation. 9. Low self-discharge. 10. Dimensions and Weight 11. Length (mm / inch) 151 / 5.94 12. Width (mm / inch) 65 / 2.56 13. Height (mm / inch) 94 / 3.70 14. Total Height (mm / inch) 100 / 3.9 15. Approx. Weight (Kg / lbs.) 2.5 / 5.51 ±%5 16. Nominal Voltage 12 17. Number of cell 6 18. Design Life 5 years 19. Nominal Capacity 77oF(25oC) 20. 20-hour rate (0.45A, 10.5V) 7.2 Ah 21. Internal Resistance 22. Fully Charged battery 77oF(25oC) 18mOhms 23. Self-Discharge 24. 3% of capacity declined per month at 20oC(average) Operating Temperature Range 25. Discharge -20~60oC 26. Charge -10~60oC 27. Storage -20~60oC 28. Max. Discharge Current 77oF(25oC) 135A(5s) 29. Short Circuit Current 450A 30. Charge Methods: Constant Voltage Charge 77oF(25oC) 31. Cycle use 14.5-14.9V 32. Maximum charging current 3.6A 33. Temperature compensation -30mV/oC 34. Standby use 13.6-13.8V <p>Terms and Conditions</p> <ol style="list-style-type: none"> 1. Warranty: Minimum 2 years. 2. Documentary proof including the bill of lading for confirmation that the product is genuine and branded. | |
| 8 | <p>LOT-03 AC Shifting and Repairing and Complete Installation with Drain and Copper pipe. AC shifting and complete wiring and installation with drain including servicing and repairing and Complete installation of copper pipe from indoor unit to outdoor unit. Turnkey Installation & Commissioning including copper piping, insulation, PVC drain piping,</p> | |

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| | ducting interconnected electrical wiring, circuit breaker, gas charging, testing & commissioning. | |
| 9 | <p>LOT-04 LIGHTING FIXTURES, LIGHT, FAN, SOCKET, AC WIRING, CABLE TRAY/TRUNKING/G.I. PULL BOXES / PVC PIPES, AS PER REQUIREMENT</p> <p>1. Supply, installation and connection of the following lighting fixtures as specified in the lighting fixtures schedule complete with lamps, starters, holders, capacitors, ballasts, etc. including all mounting accessories.</p> <p>2. Providing and installing of light point wiring with 3x1.5 sq.mm single core PVC insulated 300/500 V grade copper wires in 20mm dia. PVC conduit surface/ concealed mounted including all accessories, connector/PVC junction boxes, 1.5 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection, complete in all respects.</p> <p>3. Supply and installation of galvanized perforated cable tray / solid trunking cable ladder with solid cover including bends, tees, reducers, supports, brackets etc. of the following sizes, complete with all mounting accessories, as per requirement. (perforated or solid as required).</p> | |

TECHINICAL PROPOSAL PART III SHIFTING, INSTALLATION & REPAIRING OF
NETWORKING & IT EQUIPMENT

| Sr. No. | DESCRIPTION OF ITEM | SPECIFICATION/BRANDS/DESCRIPTION ETC. OFFERED BY THE BIDDER |
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| 1 | <p>LOT-01 GIGABIT ETHERNET SWITCH LAYER 2</p> <p>Switch 24 Port PoE Cisco Equivalent or higher Brand</p> <p>Key Features</p> <p>1.24port UPOE+, 24x 10G Multi gigabit (10G/5G/2.5G/1G/100M) with 90W UPOE+</p> <p>2.Modular Uplinks 4x Multigigabit Network Module</p> <p>3.Default Dual primary AC Power Supply 1100W</p> <p>4.Up to 1TB of stacking bandwidth with stack cable</p> <p>5.Switch models are based on the UADP 2.0 Application-Specific Integrated Circuit (ASIC) with programmable pipeline and micro engine capabilities, along with template-based, configurable allocation of Layer 2 and Layer 3 forwarding, Access Control Lists (ACLs), and Quality of Service (QoS) entries.</p> <p>6.x86 CPU complex with 8-GB memory, and 16 GB of flash and external USB 3.0 SSD pluggable storage slot (delivering up to 240GB of storage with an option SSD drive) to host containers. Switch models support 16GB of memory.</p> <p>7.USB 2.0 slot to load system images and set configurations</p> <p>8.Deeper buffer and higher scale model options for rich multi-media content delivery applications</p> <p>9.Flexible and dense uplink offerings with 100G, 40G, 25G, Multigigabit, 10G, and 1G as fixed or modular uplinks.</p> <p>10.Easy transition from 40G to 100G and 10G to 25G with dual-rate optics</p> <p>11.Flexible downlink options with 25G, 10G and 1G Copper and Fiber as well as the densest Multigigabit links.</p> <p>12.With a mix of Copper (1G up to 10G) and Fiber (1G up to 25G) supported in a single stack, multiple flexible deployment scenarios are enabled, including 2-Tier, 3-Tier and Hybrid architectures</p> <p>13.Intelligent Power Management with Stack Power technology, providing power stacking among members for power redundancy. Stack power pools the power supplies across the stack to be used redundancy and supplemental power purposes</p> <p>14.Line-rate, hardware-based Flexible Net Flow (FNF), delivering flow collection of up to 128,000 flows with select models.</p> <p>15.IPv6 support in hardware, providing wire-rate forwarding for IPv6 networks</p> <p>16.Dual-stack support for IPv4/IPv6 and dynamic hardware forwarding table allocations,</p> | |

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| <p>for ease of IPv4-to-IPv6 migration.</p> <p>17.Support for both static and dynamic NAT and Port Address Translation (PAT)</p> <p>18.IEEE 802.1ba AV Bridging (AVB) built in to provide a better audio and video experience through improved time synchronization and QoS.</p> <p>19.Precision Time Protocol (PTP; IEEE 1588v2) provides accurate clock synchronization with sub-microsecond accuracy making it suitable for distribution and synchronization of time and frequency over network.</p> <p>20.Latest operating system for the enterprise with support for model-driven programmability including NETCONF, RESTCONF, YANG, on-box Python scripting, streaming telemetry, container-based application hosting, and patching for critical bug fixes. The OS also has built-in defenses to protect against runtime attacks.</p> <p>21.End-to-end visualization of the path from campus/branch to clouds/DC with ThousandEyes Network/ equivalent and Application Synthetics (included with license)</p> <p>22.SD-Access: switches form the foundational building block for SD-Access, enterprise architecture</p> <p>23.Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network.</p> <p>24.Delivery Time 60 days</p> <p>25.3 Year Licenses (related) and Support</p> <p>Terms and Conditions</p> <p>1. The warranty and onsite support of the proposed hardware is required for a period of three years.</p> <p>2. The bidder should have partnership with OEM for switch.</p> <p>3. Design Installation and configuration of Network Equipment will be the responsibility of the bidder.</p> <p>4. The replacement of faulty components is required within one business day, if the replacement is not possible/available the bidder has to provide the backup equipment till the replacement of faulty component.</p> <p>5. To avoid downtime due to fault replacement of parts MUST be within 4 hours or the backup equipment MUST be arranged till the replacement of faulty component(s).</p> <p>6. The proposed hardware/solution MUST be in Leader/Challenger quadrant for the past one year.</p> <p>7. All the equipment delivered MUST be in the name of AEOL and the supplier MUST provide proof as well as online account for verification and support purposes.</p> <p>8. The supplier should provide proof of back-to-back SLA with OEM.</p> | |
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| | <p>Warranty & Support</p> <p>Post-sales support for the solution and associated equipment should be provided by the OEM backed partner as per the SLA. Dedicated support from partner engineers is required. The manufacturer must have direct support. Bidder must provide evidence from manufacturer to have spare parts in Pakistan with NBD delivery commitment at site (Documentary evidence required). Firmware upgrades of rack mount servers and allied equipment must be done proactively during the warranty coverage period. All equipment should be quoted with comprehensive support with year wise breakup as per List of Related Services and Completion Schedule, including parts and labor provided directly by the manufacturer. No additional charges would be paid on account for labor charges. Implementation of the solution must be done by directly OEM. The installation & configuration should be carried out by certified engineers from OEM. Proposed solution OEM (Original Equipment Manufacturer) must have standings at least in Challengers in the latest Gartner Magic Quadrant. All ports must be fully populated and all required convertors / cables must be provided by the supplier.</p> <p>Operational Manual</p> <p>Operational Manual should include complete process, Life/replacement cycle of the instruments.</p> | |
| 2 | <p>LOT-02 (A) Network Cabling:</p> <p>Note: Network Cable, Intercom Voice Cable, Wi-Fi Cable, CCTV Cable, Biometric Cable Ducting as Per Actual</p> <p>AEOI has the requirement of setting up of complete network cabling for its office at 6th Floor, 10 Babar Block New Garden Town, Lahore. The bidders are required to conduct proper survey regarding the floor layout, identification of termination points for network cabling. The cabling MUST be carried out in a proper structured way with proper ducting, labeling. All the network cables are required to be terminated on patch panel in the server room. The network points should be including Patch panel, Complete I/O, Faceplate, Box of 3M/Systemax/Panduit/Clipsal brand or equal quality brand with installation.</p> <p>Description</p> <p>Network Points+ CCTV+wifi+NW Printer +Biometric</p> <p>Intercom Voice Point</p> <p>AEOI wants to ensure that the cabling is esthetically done in a proper manner so that the visual appearance of the equipment installed is appealing and goes with the layout/design of the room.</p> <p>Terms and Conditions</p> | |

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| | <p>1. The bidder MUST provide proof that the proposed cables and allied components are 100% genuine. 2. 2. Installation, configuration, tagging and testing as per the satisfaction of the customer.</p> <p>3. Provision of complete layout diagram for network cabling</p> <p>4. All the cabling should be carried out in a proper structured manner</p> <p>5. Network cables should be run through separate channels</p> <p>6. Cables running through the ceiling should be properly protected from damage and</p> <p>7. Should pass though PVC pipes</p> | |
| 3 | <p>LOT-02 Category (B)</p> <p>MDF-PABX (25 Pair wiring tag blocks) as per requirement</p> <p>MDF-PABX (25 Pair wiring tag blocks) Tag block for telephone network having 1x50 Pair Connecting Block, KRONE make including testing and termination at both ends, installed inside Communication Rack. Complete in all respects. Tag block for telephone network having 1x50 Pair Connecting Block, KRONE m50 Pair, CAT-5 shielded, 0.6 mm dia, twisted pair telephone cable to be installed in appropriate dia PVC conduit / channel from Control room to Communication rack including connection as per requirement, labelling and tagging. Complete in all respects. 50 Pair, CAT-5 shielded, 0.6 mm dia, twisted pair telephone cable to be installed. Testing, Commissioning, proper tagging, Fluke Testing & Submission of Fluke Report of complete Voice Communication System by authorized local representative of the manufacturer.</p> | |
| 4 | <p>LOT-02 Category (C) Addressable Fire Detection and Alarm System & Fire Extinguisher C-Tec, Honeywell, Siemens or equal quality brand</p> <p>Key Features</p> <ol style="list-style-type: none"> 1. Weatherproof version (IP67) suitable for external areas 2. Up to 200 per loop 3. Integral short-circuit isolator 4. Surface or Semi Flush Options Fire Alarm Panel 5. Smoke detectors. 6. Heat detectors. 7. Multi sensors. 8. Manual call point. 9. Hooters. 10. Control Module. 11. Monitor Module. 12. Isolators. 13. Fire Extinguisher 14. 3 Auto Fire Extinguisher 15. Key switch 16. One-year comprehensive replacement | |

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| | <p>warranty</p> <p>Terms and Conditions</p> <ol style="list-style-type: none"> 1. The warranty and onsite support of the proposed hardware is required for a period of One years. 2. The replacement of faulty components is required within one business day. 3. All Cables, required accessories, passive work for the useful deployment of solution must be inclusive in quoted in proposal. 4. Turnkey installation and configuration of the complete solution is required. | |
| 5 | <p>LOT-02 Category (D)</p> <p>Access Control Machine with door lock and Installation ZKT or equal quality brand</p> <p>Key Features</p> <ol style="list-style-type: none"> 1. 3,000 face and 4,000 fingerprint templates 2. Multi-language 3. Display, TFT Touch Screen 4. High verification speed 5. Advanced and user-friendly UI 6. Optional built-in battery backup, providing approximately 4 hours of continuous operation 7. New Framework firmware, easy to extend functions and customize client's requirements 8. One face template is registered for one user only 9. Able to detect whether the face is an actual face or a photo, enhancing the security level of verification 10. Logs Capacity, 100,000 11. Communication, TCP/IP, USB, RS232/485 12. Access Control, Electronic Lock, Door Sensor, Exit Button 13. Authentication, Multiple verification mode (Finger/Face Detection etc.) 14. Backup Battery <p>Terms and Conditions</p> <ol style="list-style-type: none"> 1. The warranty and onsite support of the proposed hardware is required for a period of One years. 2. The replacement of faulty components is required within one business day. 3. All Cables, required accessories, passive work for the useful deployment of solution must be inclusive in quoted in proposal. 4. Turnkey installation and configuration of the complete solution is required. 5. Main Entrance Door installed with Access Control Machine. 6. Server Room Door installed with Access Control Machine. 7. Secure Room Lab and Store Room, Door installed with Access Control Machine. | |
| 6 | <p>LOT-02 Category (E)</p> <p>Wireless Access Point with Controller:</p> <ol style="list-style-type: none"> 1. Access Point, Cisco Equivalent or higher <ul style="list-style-type: none"> •Wi-Fi 6 (802.11ax), High-Efficiency-Wireless, supports multiple bands, Flexible Radio Assignment | |

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|---|---|--|
| | <ul style="list-style-type: none">•fully integrated Software-Defined Radio•Orthogonal Frequency-Division Multiple Access•Supporting four spatial streams, Multiuser Multiple Input, Multiple Output•Spatial reuse•Power savings mode•Application Hosting on access points•Multigigabit Ethernet support•Bluetooth radio•Brand: Cisco Equivalent or higher 2. Access Point Central Management <ul style="list-style-type: none">•Copper and fiber uplinks•Secure Boot, runtime defenses, image signing, integrity verification, and hardware authenticity•Wi-Fi 6 dashboard to look through the inventory of all devices on the network and verify device, software, and client compatibility with the new Wi-Fi 6 standard•Image upgrade and update while the network is still running•Maximum number of access points 250 with license•Maximum number of clients 4000-6000•Maximum throughput: 5 Gbps, 10 Gbps•Fixed uplinks :2x 10G/Multigigabit copper or 2x 10G/Multigigabit fiber•Form factor :1RU; chassis allows side-by-side installation in standard 19-in. rack•Brand Cisco Equivalent or higher•Redundancy port, RJ45 Port, Service Port (SP) (RJ-45) for out-of-band management•High Availability Terms and Conditions <p>One-year comprehensive replacement warranty Patch Cords Provision of 1G, CAT 6 patch cords, of Schnider, 3M, Baynet or equal quality brand or equivalent)</p> <p>Cat 6 Fully Loaded 24- Port Patch Panel Schnider, 3M, Baynet or equal quality brand or equivalent)</p> <p>Cat 6 Cable Manager AMP, 3M, Schnider, equal quality brand or equivalent)</p> | |
| 7 | <p>Shifting and Installation IT Equipment LOT-02 (F) Shifting, Installation and Repairing IT Equipment: Note: <u>Network Rack, Network Switch, CCTV Camera, Biometric Door Lock Machine, LED Conference room and telephone exchange:</u> AEOI 58 A/C-III, Gulberg-III, Lahore has the following IT equipment: Network Rack 42U, Network Rack 12U, Network Switch, Patch Panel, Network Cable Manager, Telephone Exchange, CCTV Camera with NVR, LED 75” for the conference room, and face door lock machines for the lab and server room. AEOI requires the shifting of available IT equipment and installation of above mention IT equipment to be installed with same setup of an IT Equipment etc. Rack, CCTV, door lock</p> | |

| | |
|--|--|
| <p>machines, and cabling for its office at 6th Floor, 10 Babar Block New Garden Town, Lahore. Bidders must conduct a proper survey of the floor layout, identify termination points for network, CCTV cameras, and secure room door lock machine cabling. The cabling must be carried out in a structured manner with proper ducting and labeling. All network cables must be terminated on a patch panel in the server room network rack.</p> <ol style="list-style-type: none">1. 42U Network Rack2. Network Switch3. 12U Wall Mount Rack4. Multi-Biometric T&A and Access5. Control and Face-recognition Terminal with Door Lock6. 16 Channel NVR with IP camera7. Monitoring Panel LED SMART TV 55" Inch8. Conference Panel LED SMART TV 75" Inch9. Telephone Exchange, MDF-PABX <p>AEOI wants to ensure that the all shifting equipment and cabling is esthetically done in a proper manner so that the visual appearance of the equipment installed is appealing and goes with the layout/design of the room and do testing after installation.</p> | |
|--|--|

General Terms & Conditions

1. All components of proposed solution must have 03 years hardware & software support/warranty from OEM.
2. All supporting documents MUST be provided, where applicable.
3. Vendor must provide evidence of partnership letter with OEM.
4. Designed, Installation, configuration, testing, will be the responsibility of selected bidder, with proper documentation according to AEOI’s requirements without any additional cost.
5. Bidder should have back-to-back SLA with OEM.
6. Bidder should clearly mention the manufacturer name, brand & model along with country of origin/country of manufacturing.
7. The software licenses, if any, shall be required in the name of user. The licenses shall contain paper licenses and at least one set of media (CDs) – wherever applicable.
8. Warranty period will start after signing off the project.
9. The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract. The supplier further warrants that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the supplier. The warranty should be comprehensive on site, repair/replacement basis free of cost.
10. During the warranty period, vendor will have to undertake comprehensive maintenance of the entire hardware components, equipment, support and accessories supplied by the vendor at the place of installation of the equipment.
11. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. It should be completed within NBD. Resolutions for entire solutions after the intimation of fault. Goods requiring warranty replacements must be replaced on free of cost basis. AEOI reserves the right to invoke the Performance Bank Guarantee submitted by bidder as per any non-conformance to the Contract that is deemed necessary.
12. Provided solution should be complete on turnkey basis including delivery, installation, commissioning and making the solution operational will be the responsibility of bidder.
The OEM must have presence in Pakistan. All the configurations are to be carried out by the OEM in collaboration with the partner.

FINANCIAL PROPOSAL PART I PROVISION OF WORK SPACE AS PER GIVEN**LAYOUT**

| SR. NO. | DESCRIPTION OF ITEM | APPROX. QUANTITY | UNIT PRICE/RATE | TOTAL |
|-----------|--|------------------|-----------------|-------|
| 1 | Paint Work: | | | |
| 1.1 | Matt Enamel Paint (Internal Plastered Surfaces Including Staircase). | 6600 SFT | | |
| 1.2 | Matt Enamel Paint (MDF). | 17100 SFT | | |
| 2. | Stud Partition, Cladding, Portal, Paneling, Molding, Post & Lintel. | | | |
| 2.1 | Full Height MDF Board Stud Partition without Paint Finish. | 6800 SFT | | |
| 2.2 | Low Height MDF Board Stud Partition without Paint Finish. | 200 SFT | | |
| 2.3 | MDF Board Cladding without Paint Finish. | 3500 SFT | | |
| 2.4 | MDF Board Paneling Polish Finish (CIR Room) | 670 SFT | | |
| 2.5 | Wooden Molding Deco Paint Finish (CIR Room) | 150 RFT | | |
| 3. | Doors, Windows & Glazing. | | | |
| 3.1 | Glass Door. | 44 SFT | | |
| 3.2 | Wooden Doors Polish Finish. | 150 SFT | | |
| 3.3 | Wooden Door Formica Finish. | 44 SFT | | |
| 3.4 | Wooden & Glass Doors Polish Finish (All Rooms). | 380 SFT | | |
| 3.5 | Frosted Film (on Door Glass). | 450 SFT | | |
| 4. | Miscellaneous Work. | | | |
| 4.1 | Granite on Window Sill. | 100 SFT | | |
| 4.2 | Granite Finish Counter in Toilets & Pantry. | 75 SFT | | |
| 4.3 | Wooden Cabinets in Pantry. | | | |
| i) | Base Cabinet. | 40 SFT | | |
| ii) | Hanging Cabinet. | 34 SFT | | |
| 4.4 | Mirror in Toilet. | 50 | | |
| 4.5 | Windows Roller Blinds. | 550 SFT | | |
| 4.6 | Signage & Logo. | 1 Job | | |
| 4.7 | PVC Skirting. | 1200 RFT | | |

Note: Billing/Payment will be made as per actual requirement and work done.

**FINANCIAL PROPOSAL PART II SHIFTING, INSTALLATION & REPAIRING OF
ELECTRICAL EQUIPMENT INCLUDING ELECTRIC WIRING AND GENERATOR**

Bill of Quantity (LOT -01 A, B, C, D, E) (Power)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1 | Power Points UPS with single socket outlet US flat Pin (13 amp) | 150 | | |
| 2 | Power Points WAPDA with single socket outlet US Round Pin (5 amp) | 100 | | |
| 3 | Main LT Panel DB Bus Bar and Breaker | 01 | | |
| 4 | Manual Change over ATS Panel Genset and Wapda | 01 | | |
| 5 | Power DBLP | 01 | | |
| 6 | Power UPS DB for light & Fans | 01 | | |
| 7 | Power DB AC Wapda | 01 | | |
| 8 | Power DB AC Wapda & Genset | 01 | | |
| 9 | 4 Core 95MM Power Cable | 70 Mtr | | |
| 10 | 4 Core 25MM Power Cable | 80 Mtr | | |
| 11 | 4 Core 16MM Power Cable | 50 Mtr | | |
| 12 | 4 Core 110/76 Control Cable | 70 Mtr | | |
| 13 | 4-Core 10 mm (Flexible Power Cable for UPS) | 50 Mtr | | |
| 14 | 1-Core 35MM Earth Cable | 90 Mtr | | |
| 15 | Power Change over with box and breaker 63 AMP for UPS | 04 | | |
| 16 | Industrial Socket 5Pin 63 AMP. For UPS | 04 | | |
| 17 | Genset Shed | 01 | | |
| 18 | Earth Pit | 03 | | |
| 19 | Genset Concrete pad | 01 | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT-02 A) Shifting, Installation and Repairing Electrical Equipment and Generator)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|--|------------------|-----------------|-------|
| 1 | Generator 100 KVA | 1 | | |
| 2 | ATS Auto Panel | 1 | | |
| 3 | Surge Suppressor Panel | 1 | | |
| 4 | Phase Reversal Panel | 1 | | |
| 5 | Power Distribution Panel | 1 | | |
| 6 | UPS Distribution Panel | 2 | | |
| 7 | Fuel Tank | 1 | | |
| 8 | UPS 20 KVA | 2 | | |
| 9 | 70 MM Power cable, control cable and earth wire shifting | 1 Job | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT-02 B)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|------------------------------------|------------------|-----------------|-------|
| 1 | 20KVA UPS Batteries (12volt&7.2Ah) | 240 | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT -03)

| Sr. No | Description | Approx. Quantity | Unit Price/Rate | Total |
|--------|--|------------------|-----------------|-------|
| 1 | AC shifting and complete wiring and installation with drain including servicing and repairing and Complete installation of copper pipe from indoor unit to outdoor unit. Turnkey | 25 | | |

| | | | | |
|--|---|--|--|--|
| | Installation & Commissioning including copper piping, insulation, PVC drain piping, ducting interconnected electrical wiring, circuit breaker, gas charging, testing & commissioning. | | | |
|--|---|--|--|--|

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT -04)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1 | Fixture Type (Recessed) LED down lighter with 1x17 w LED lamp (4000K). | 150 | | |
| 2 | Fixture Type (Recessed)LED down lighter with 1x13 w LED lamp (4000K). | 50 | | |
| 3 | Fixture Type (Surface)LED down lighter with 1x7 w LED lamp (4000K). | 40 | | |
| 4 | Fixture Type (Recessed) 2'x2' LED panel (4000K). | 30 | | |
| 5 | Fixture Type (Surface) LED strip lights. | 350 Mtr | | |
| 6 | Light point controlled by one switch. | 65 | | |
| 7 | Light point from point to point. | 145 | | |
| 8 | Fan point with fan hook Point | 01 | | |
| 9 | Bracket Fan point with fan hook | 01 | | |
| 10 | Exhaust fan point. | 06 | | |
| 11 | Circuit wiring from distribution board to switch/lighting points with 3x2.5 sq.mm single core PVC wires in 25mm dia PVC conduit complete with all accessories. | 09 | | |
| 12 | Circuit point wiring from switch board to switch board 3x2.5 sq.mm single core PVC wires in PVC conduit complete with all accessories. | 18 | | |
| 13 | Wiring for 1.0 /1.5 Ton A/c split unit from DB to respective load break switch & from load break switch to condensing unit with 3 x 1C-4mm ² PVC insulated copper wires in 25 mm dia PVC conduit galvanized trunking / Tray complete with all accessories, including terminations and copper pipe. | 21 | | |
| 14 | Wiring for 4.0 Ton A/c split unit from DB to respective load break switch & from load break switch to condensing unit with 3 x 1C-6mm ² PVC insulated copper wires in 25 mm dia PVC conduit galvanized trunking / Tray complete with all accessories, including terminations and copper pipe. | 04 | | |
| 15 | Providing and installing of wiring from distribution board for 13A international switch socket outlets with 3 x 2.5 sq.mm single core PVC insulated copper wires in 20mm dia. PVC conduit concealed / surface mounted, with all accessories. | 30 | | |
| 16 | Same as item 4.4, but wiring from point to point. | 75 | | |
| 17 | Same as item 4.5, but wiring from adjacent point to adjacent point. | 45 | | |
| 18 | Wiring for Hand Dryer from respective DB with 3 x 1C - 2.5 mm ² PVC cables drawn in 25mm dia PVC conduit with accessories embed in wall / floor / ceiling or surface installed. | 06 | | |
| 19 | Providing and installing of wiring from distribution board for 16A 3 pin industrial socket outlets with 3 x 6 sq.mm single core PVC insulated copper wires in 20mm dia. PVC conduit concealed / surface mounted, with all accessories. | 01 | | |
| 20 | Providing and installing of wiring from distribution board for 16A 5 pin industrial socket outlets with 5 x 6 sq.mm single core PVC insulated copper wires in 20mm dia. PVC | 01 | | |

| | | | | |
|----|--|---------|--|--|
| | conduit concealed / surface mounted, with all accessories. | | | |
| 21 | Providing and installing of wiring for LCD wired with RG6 coaxial cable. Work includes providing and installing of face plate on already installed sheet steel back box. | 200 Mtr | | |
| 22 | Supply and installation of sheet steel back boxes for switches and sockets, including copper earth terminals. | 150 | | |
| 23 | Supply and installation of clipsal vivace series switches and sockets on already installed sheet steel back boxes. | 50 | | |
| 24 | One gang switch | 05 | | |
| 25 | Two gang switch | 18 | | |
| 26 | Three gang switch | 22 | | |
| 27 | Four gang switch | 03 | | |
| 28 | 13Amp. International switch socket outlet | 280 | | |
| 29 | TV socket outlet. | 02 | | |
| 30 | 15Amp. 3 Pin switch socket outlet | 04 | | |
| 31 | 16Amp. 3pin wall type industrial socket with plug. | 02 | | |
| 32 | 16Amp. 5pin wall type industrial socket with plug. | 02 | | |
| 33 | Supply, installation & connection of 1 x 6 way cable TV splitter (make : EN/Japan/Korea) in already installed TV Junction Box, with all mounting accessories, complete in all respect as per specifications. | 01 | | |
| 34 | Wiring of Bracket Fan complete with all mounting accessories. | 10 | | |
| 35 | Supply, installation & connection of exhaust fan 8" dia with shutter complete with all accessories. | 06 | | |
| 36 | Wiring for pedestal fan complete connection. | 07 | | |
| 37 | 1 x 1C - 50mm ² PVC cable. | 30 Mtr | | |
| 38 | Cable tray 150mm x 50mm | 10 Mtr | | |
| 39 | Cable tray 150mm x 100mm | 20 Mtr | | |
| 40 | Cable tray 300mm x 50mm | 10 Mtr | | |
| 41 | Supply and installation of 14 SWG galvanized sheet steel surface type technology box suitable for 4 outlets. | 06 | | |
| 42 | Supply and installation of 14 SWG galvanized sheet steel surface type technology box suitable for 5 outlets. | 65 | | |
| 43 | Supply and installation of 14 SWG galvanized sheet steel floor boxes with cover | 05 | | |
| 44 | Supply and installation of 14 SWG galvanized sheet steel floor boxes with cover suitable for 4 outlets. | 02 | | |
| 45 | Providing and installation of PVC pipes including all accessories (e.g. bends, sockets etc.) of the following sizes. | | | |
| 46 | 50mm dia. PVC pipe. | 200 Mtr | | |
| 47 | 38mm dia. PVC pipe. | 100 Mtr | | |
| 48 | 25mm dia. PVC pipe. | 500 Mtr | | |
| 49 | 32mm dia. Flexible PVC pipe. | 10 Mtr | | |
| 50 | 25mm dia. Flexible PVC pipe. | 10 Mtr | | |
| 51 | Circuit wiring from fan and lights UPS distribution board to switch/lighting points with 3x2.5 sq.mm single core PVC wires in 25mm dia PVC conduit complete with all accessories | 25 | | |

Note: Billing/Payment will be made as per actual requirement.

FINANCIAL PROPOSAL PART III SHIFTING, INSTALLATION & REPAIRING OF NETWORKING & IT EQUIPMENT

Bill of Quantity (LOT -01)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|--|------------------|-----------------|-------|
| 1. | Gigabit Ethernet Network Layer-2/3 Switch POE | 01 | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT -02 -A, B))

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1. | Network Points+ CCTV+ Wi-Fi+ NW Printer+ Biometric | 150 | | |
| 2. | Intercom Voice Point | 40 | | |
| 3. | MDF-PABX (25 Pair wiring tag blocks) | 1 | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT-02- C)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1 | Fire Extinguisher | 3 | | |
| 2 | Fire Extinguisher Auto | 3 | | |
| 3 | Supply and installation of 4- zone fire alarm control panel (FACP). | 1 | | |
| 4 | Supply and installation of conventional type smoke detector. | 20 | | |
| 5 | Supply and installation of conventional type manual break glass unit. | 4 | | |
| 6 | Supply and installation of conventional type heat detector. | 2 | | |
| 7 | Supply and installation of electronic sounder. | 4 | | |
| 8 | Supply and installation of wiring from FACP to fire alarm system devices wired with 1.5sq.mm two core PVC/PVC fire retardant shielded cable in 25mm dia. PVC Pipe. (As per requirement) | | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT -02-D&E)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1. | Multi-Biometric T&A and Access Control and Face-recognition Terminal with Door Lock | 03 | | |
| 2. | Wireless Access Point with controller | 02 | | |
| 3. | Patch Cords (1 Meter) | 200 | | |
| 4. | Patch Cords (3 Meter) | 200 | | |
| 5. | 6 Patch Panel 24 Port with IO's | 144 | | |
| 6. | Cable Manager | 06 | | |
| 7. | HDMI Cable as per requirement | 01 | | |

Note: Billing/Payment will be made as per actual requirement.

Bill of Quantity (LOT-02-F) Shifting, Installation and Repairing Network & IT Equipment)

| Sr. No. | Description | Approx. Quantity | Unit Price/Rate | Total |
|---------|---|------------------|-----------------|-------|
| 1. | Network Switch | 05 | | |
| 2. | 42U Rack with PDU | 01 | | |
| 3. | 12U Wall Mount Rack | 01 | | |
| 4. | Multi-Biometric T&A and Access Control and Face-recognition Terminal with Door Lock | 02 | | |
| 5. | 16 Channel NVR with IP camera | 16 | | |
| 6. | Monitoring Panel LED SMART TV 55" Inch | 01 | | |
| 7. | Conference room Panel LED SMART TV 75" Inch | 01 | | |
| 8. | Telephone Exchange, MDF-PABX | 01 | | |

Note: Billing/Payment will be made as per actual requirement.

