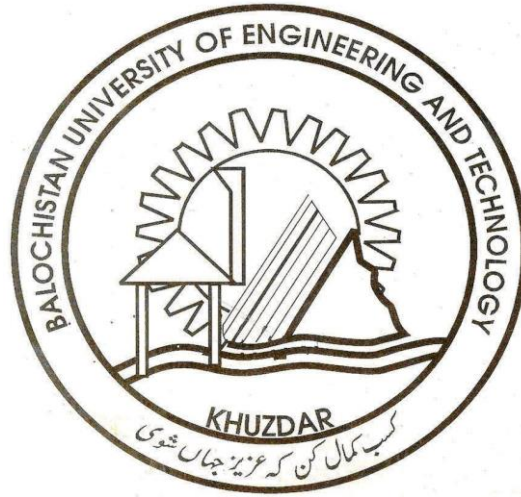


BALUCHISTAN UNIVERSITY OF
ENGINEERING AND TECHNOLOGY,
KHUZDAR

Tender fee (non refundable) Rs.3000



TENDER DOCUMENTS VOL,I&III

BILL OF QUANTITIES

&

CONDITIONS OF CONTRACT

FOR

**IP BASED INTEGRATED SURVEILLANCE, ALARM/
SOUND SYSTEM, BIOMETRIC AND SECURITY ITEMS**

SPECIFICATION FOR SECURITY SURVEILLANCE SYSTEM

Balochistan University of Engineering and Technology, Khuzdar intends to install IP/IR based Security Surveillance system from reputed firms with branded products to ensure effective surveillance of inside/outside area of BUET, Khuzdar premises at Khuzdar Balochistan. The System should be able to create a tamperproof record for post event analysis and shall provide an online display of video images on LCD monitors. It shall also be possible to view the images by authorized users of networked system. The entire project work has to be executed with total responsibility. The selected vendor is responsible for install, test and commission the system at the concerned locations at their own cost. It should also facilitate viewing of live and recorded images of all cameras by the authorized users. Also provision for viewing and controlling of all the cameras in Central Control Room of BUET, Khuzdar has to be provided.

The system envisages provisions of the following equipment:

- i. High-resolution 2 Megapixel or better IP HD cameras with Speed Dome 90 units.
- ii. All the cameras should be POE/Power and Data on same cable.
- iii. Fiber for long distance using proper connectors.
- iv. Only UTP cables as far as possible.
- v. LCD Monitor 40"
- vi. Server to store images.
- vii. Video management software.
- viii. Standard H.261/MPEG/open standards.
- ix. All the equipment offered shall be suitable for operation from 0 °C to 60 °C and relative humidity ranging from 30 to 95% non-condensing.

General Specifications Details

- i. Proposed Security Surveillance system shall be an open standard, nitrated system with IP network, centric functional and management architecture aimed at providing high speed manual/ automatic operation for best performance.
- ii. Proper Night vision cameras should be proposed.
- iii. The system should be able to view all installed cameras locations from a central point or at later point of time.
- iv. The DVR software shall run on common off the shelf available servers in redundant configuration (Camera server & database server). Each NVR / Camera server shall be able to handle at least 16 cameras.

- v. The DVM shall offer both video stream management and video stream storage management. Recording frame rate & resolution in respect of individual channel shall be programmable.
- vi. System should ensure that once recorded, the video could not be altered; ensuring the audit trail is intact for evidential purpose.
- vii. System shall provide sufficient storage of all the camera recordings for a period (3-5 years) However duration will be given by supplier.
- viii. The recording resolution and frame rate for each camera shall be user programmable.
- ix. There shall be a control system with Video Control Software to manage all the video surveillance devices.
- x. Each camera should be capable of producing streams @ 30 fps for viewing on LAN and on monitor and also for recording into the DVR/NVR/NAS box other Requirements.

System Requirements

- i. All camera recordings shall have Camera ID & location/ area of recording as well as date/ time stamp. Camera ID, Location/Area of recording & date/ time shall be programmable by the system administrator with User ID & Password.
- ii. Facility of camera recording in real-time mode with user selectable frame rates like 25/ 15/ 12.5/ 10 or lower FPS as well as in any desired combination must be available in the system.
- iii. In order to optimize the memory, video shall be compressed using H.264/MPEG- or better standard while recording and streamed over the IP network.
- iv. System shall be triplex i.e. it should provide facility of Viewing and controlling of cameras, recording & Replay simultaneously.
- v. The offered system shall have facility to export the desired portion of clipping (from a desired date/ time to another desired date/ time) on USB. Viewing of this recording shall be possible on standard PC using standard software like windows media player, VLC etc.

TERMS AND CONDITIONS

- The interested bidders/parties shall submit their bid under single stage two envelopes procedure as defined by Pakistan procurement Regulatory Authority (PPRA Rules 2004).
- In the first stage, only the envelopes containing “TECHNICAL PROPOSAL” shall be opened in the presence of bidders (or their authorized representatives) who may like to attend the tender opening meeting.
- The procedure will be evaluated and formalized by the Technical Committee under the provisions of this Rule. The financial bid keeping in view the result of technical bids will be submitted/ opened accordingly.
- The bidder/ firms should be registered with Income tax/ General Sale tax (GST).
- Bidders should have experience in wireless and optical fiber connectivity solutions at Higher Education Institute level.
- Bidder shall sign an agreement regarding serviced contract to provide on-campus support (with at least 01 person) and services for a period of 2-3 years extendable to another reasonable period.
- Bidders should submit performance bond of @ Rs. 10% of ordered amount in the form of pay order. Besides, 10% of retention money will be deducted from each bill of the contractor and will be released after successful maintenance period i.e. twelve months.
- All taxes will be deducted from each bill as per Government Rules.
- The bidder should be or related in the business of security surveillance solutions provider. Bidder must have executed IP Based Surveillance System projects. Copy of work orders, completion Certificates should be attached. The firm must have at least 5 years of experience in similar domain.
- The bidder must have industry high standard certified engineers. Please attach degrees/ company profile.
- The bidder must be the authorized dealer of quoted IP based Surveillance system (Equipment) enclose Certificate.
- The bidder should have own service Center, Communication address and telephone numbers and preferably data center for back up, details for the same be provided.

- Attach details of litigation or arbitrations or black-listing if any, if none an affidavit of no arbitration and of never having been black-listed to be submitted.
- The bidders should provide the Turn key solution. Partial solution will not be entitled/ acceptable.
- Project installation plan will be provided for the same.
- The rates will be valid up for 90-days from the date of opening the tender.
- A University inspection committee will inspect the IP Based integrated surveillance System and further will recommend for payment.
- The bidder should quote item of good repute (international recognized brand) and clearly mention the make, made & model of offering items.
- The quotation/Bid offering substandard product can be screened out to ensure procurement of Hi-quality Equipment.
- Attached proforma/Certificate should invariable be filled and submitted with the quotation/EOI.
- The tender should be quoted on the basis of free delivery of IP Based Integrated Surveillance system at the BUET, Khuzdar.
- Balochistan University of Engineering & Technology, Khuzdar reserves the right to drop any item given in the EOI tender without assigning reason and also reserves the right to reject any or all bids as per PPRA Rules 2004.

**Project Director
BUET, Khuzdar**

Read & Accepted

Supplier with Seal

CERTIFICATE

1. We / I hereby confirm to have read carefully the terms & Conditions of your Tender/EOI enquiry dated for opening on.....for the purchase of.....we agree to abide by all these terms & conditions/ instructions.
2. Certified that the prices quoted against advertises tender dated.....are not more than the prices charged from any other purchasing Agencies in the country in the financial year.....and in case of any discrepancy, we/ I hereby undertake to refund the price charged in excess if and when asked to do so.
3. Certified that the prices quoted by our firm are with General Sales Tax (GST).

1. NAME OF FIRM _____
2. ADDRESS _____
3. INCOME TAX NO _____
4. GENERAL/SALES TAX REGN NO _____
5. NAME OF TENDERER _____
6. NAME OF BANK AND A/C NO _____
7. C.N.I.C NO _____
8. SIGNATURE OF TENDERER _____
9. DATE AND STAMP _____

Balochistan University of Engineering & Technology, Khuzdar

BILL OF QUANTITIES

| S.# | Name of Items | Description | Qty | Unit Price | Total Amount |
|-----|---|---|-----|------------|--------------|
| 01. | Network Based IR Camera (Indoor) | 3Megapixel Full HD Water-Proof & Vandal-Proof Network Dome Camera 1/3" 3Megapixel progressive Aptina CMOS, H.264 & MJPEG dual-stream encoding Max 20fps@3M(2048x1536)&25/30fps @1080P(1920 x1080) DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS 2.8~12mm varifocal lens Max IR LEDs Length 20m IP66, IK10, PoE | 28 | | |
| 02. | Network Based IR Camera (outdoor) | 4MP HD WDR Network Small IR Bullet Camera 1/3" 4Megapixel progressive scan CMOS Support H.264&MJPEG dual codec Max 20fps@4M(2688x1520)&25/30fps@3M(2304x1296)Smart Detection supported WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC,BLC Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS 3.6mm fixed lens (6mm optional) Max. IR LEDs Length 40m IP67, PoE | 32 | | |
| 03. | Network based Long Range Speed Dome Camera | Powerful 30x optical zoom Ultra-low light star-light camera H.264 & MJPEG Three-stream encoding Max 60fps@720P and 30fps@1080P resolution Defog, WDR, EIS, ROI, Day/Night(ICR), DNR (2D&3D), Auto iris, Auto focus, AWB, AGC,BLC Auto-tracking and IVS Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS Max 240°/s pan speed, 360° endless pan rotation Up to 255 presets, 5 auto scan, 8 tour,5pattern Built-in 7/2 alarm in/out Support intelligent 3D positioning with Micro SD memory, IP67, IK10,Hi-POE IR Distance up to 200m | 16 | | |
| 04. | Hybrid NVR 4K | Max 128channel IP cameras connection Max 384Mbps incoming bandwidth Up to 8Mp resolution preview& playback 1VGA + 2HDMI Support RAID 0/1/5/6/10/50/60 Support N+M hot standby Support iSCSI to expand storage space Compatible and seamless integrated to other platforms Support Multi-brand network cameras ONVIF Version 2.4 conformance Redundant power supply module adopted. | 03 | | |
| 05. | 8 ports Switch | 8 port switch, POE supported, branded | 25 | | |
| 06. | MIMO Wireless | P2P MIMO Wireless CPE's | 20 | | |
| 07. | Guy Mounting Tower | 80 feet Guy Mounting tower with light arrester | 01 | | |
| 08. | Branded LED | Branded 40" LED, HDMI support | 03 | | |
| 09. | 42U Rack | 42U Rack 800x1000, with PDU and Patch Panel | 01 | | |
| 10. | 6U Rack | 6U Networking rack | 20 | | |

| | | | | | |
|-----|---|---|-----------------|--|--|
| 11. | Networking Cat-6 Cable | Branded Cat-6 cable | 08 | | |
| 12. | Fiber Optic Cable | 12 core Fiber optic cable branded | 4000 m | | |
| 13. | 2 core 16mm Electric Wire | 2 core 16mm Electric wire, branded | 3000 m | | |
| 14. | 4 core 16mm Electric wire | 4 core 16mm Electric wire, branded | 6000 m | | |
| 15. | Electrification | Electric wire for installation of Network Based cameras etc. | 1 job | | |
| 16. | 1 KVA UPS | 1 KVA UPS with battery bank of one hour backup at each location, branded | 20 | | |
| 17. | 5 KVA Hybrid UPS | Hybrid 5Kva UPS with 200Hx4 dry batteries of good quality | 01 | | |
| 18. | Services | Installation of Cat-6 Cable and Optical Fiber underground (3feet deep) and open in feet 1000 m | 6000 m | | |
| 19. | Services | Digging (Gravelly, Sandy soil) (Length = 10 KM, Breath = 0.30 m, Depth = 1.53 m) | Per meter 10 KM | | |
| 20. | Services | Installation, Testing and commissioning of all equipment's. | 01 job | | |
| 21. | Ducting/ Piping | Ducting & Piping 3 inch dia UPVC pipe(good quality) | 01 job | | |
| 22. | Fiber SFP Port | 1GB Fiber SFP Port | 40 | | |
| 23. | 24 Port Gigabit Managed | Layer-II, 24 Port 10/100/1000 Managed Switch, VLANs, | 02 | | |
| 24. | Network Based Audio Addressable System | Public address system (PA system) of good quality | 10 | | |
| 25. | Biometric Device | Color TFT Screen with GUI Interface, 6000 finger template, Network based, with SDK kit. With all Accessories of good quality. | 06 | | |
| 26. | Speed Dome Pole | 30 feet Iron pole for installation of out speed dome cameras | 16 | | |
| 27. | Alarm System | Supply and Installation of Alarm System of good quality as per satisfaction of Engineer/ committee. | 01 | | |
| 28. | Joy Stick for Speed Dome Camera | Three Dimensional Joystick Controls of PTZ Functions, branded. | 01 | | |
| 29. | Streaming Software | Streaming Software (Complete all accessories) Supported Format H.264, MPEG-4, MJPEG, branded | 01 | | |
| 30. | Laser Fencing of University Boundaries | Laser Fencing of university boundaries, trigger alarm system with all allied accessories | 06 KM | | |
| 31. | Labor | Labor charges for lying of cables in trenches and refilling as per directives of Engineer in charge. | 01 job | | |

Supplier with Seal

1. Documents Comprising of Bid

2.1. Technical proposal

A technically eligible bidder, based on conditions listed in this document, not meeting the 70% pass marks limit will be rejected in Technical Evaluation, and its sealed/unopened Financial Proposal shall be returned back. All bidders scoring greater than or equal to 70% of the marks will be accepted in technical proposal, and their financial bids will be opened. The technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria:

| S.No | Attributes | Score | Score Distribution | Requirements | |
|------|--|-------|--------------------|---|---|
| 1 | Company profile | 5 | 5 | Detail profile of Company | |
| 2 | Registration Certificate for | 5 | 5 | Valid Document | |
| | Income Tax | | | | |
| | Sales Tax | | | | |
| 3 | Manufacturers Authorization Certificate | 15 | 8 | | |
| | Gold/Silver Partner / integrator | | | | |
| | Distributor | | | | 5 |
| | Reseller | | | | 2 |
| 4 | Company Office | 5 | 3 | | |
| | Company office in Quetta | | | | |
| | Offices in other cities | | | | 2 |
| 5 | Similar projects Completed (Similar projects of same scope undertaken in Pakistan – Documentary proof/evidence required) | 10 | 10 | More than ten projects | |
| | | | 5 | 7 projects | |
| | | | 3 | 5 projects | |
| | | | 0 | Less than 5 projects | |
| 6 | Similar Projects in Hands | 10 | 10 | More than ten projects | |
| | | | 5 | 7 projects | |
| | | | 3 | 5 projects | |
| | | | 0 | Less than 5 projects | |
| 7 | Technical brochures / Literature of the quoted product | 05 | 05 | All supporting documents/ brochures / literature of product | |
| | | | 03 | Documents with limited technical detail | |
| 8 | Warranty Support and Service on equipment | 15 | 15 | 3-Year Warranty and Services | |
| | | | 5 | 3-Year Warranty and 1-Year Services | |
| | | | 2 | Warranty and Services for 1 year | |
| | | | 0 | Warranty only or Less than 1 year | |
| 9 | Technical Team (with profiles) | 15 | 15 | More than 10 Technical Employees | |
| | | | 7 | 7 Technical Employees | |

| | | | | |
|----|---|----|--|-----------------------|
| | | | 5 | 5 Technical Employees |
| | | | 0 | Less than 5 |
| 10 | Compliance of Technical Quoted Items with RFP | 15 | 15 | 100% Compliance |
| | | | 10 | 75% |
| | | | 5 | 60% |
| | | | 0 | 50% or low Compliance |
| 11 | Financial Health Certificate of last five years | 10 | 10 | More than 50 Million |
| | | | 5 | More than 25 Million |
| | | | 2 | More than 10 million |
| 12 | Demonstration / Implementation Plan | 25 | To validate the specification, display of live image quality, signal reception, zooming capability. Integrity of system Details of Implementation Plan | |

2.2. The Financial Proposal shall comprise the following:

1. Tender Form
2. Price Schedule including all taxes

| S.# | DESCRIPTION | UNIT PRICE (RS.) | QUANTITY | TOTAL UNIT PRICE (RS.) |
|-----|-------------|------------------|----------|------------------------|
|-----|-------------|------------------|----------|------------------------|

3. Tender Security (call Deposit) of 5 %

3. **SCOPE OF WORK**

General:

- 3.1. Furnish engineering, labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working security system installation, as described in these specifications.
- 3.2. Project is to be completed, including delivery, commissioning, installation, and training in 60 Days after receiving purchase order.
- 3.3. Provide all labor, materials, equipment and training necessary for complete installation of the new IP Digital Video Surveillance System for Balochistan University of Engineering & Technology, Khuzdar
- 3.4. This project shall be an all IP based system.
- 3.5. ALL exterior exposed cabling MUST be concealed in conduit / standard procedures.
- 3.6. For cameras and NVR the specified and preferred software & Brand will be quality product not a generic .Currently the Balochistan University of Engineering & Technology, Khuzdar has CCTV. If alternate product is bid the vendor shall include the cost of changing out the existing systems with equipment compatible with the alternate product. It is mandatory that the Balochistan University of Engineering & Technology, Khuzdar have a unified consistent recording software interface and accessibility.

4.0. **VENDOR REQUIREMENTS**

- 4.1. Vendor MUST submit signed and dated proof of authorization to sale and / or Service Company for manufacturer products. Vendor MUST submit signed and dated proof of open and active account with manufacturer products.
- 4.2. Selected vender has to submit detailed Implementation plan and demo of equipped before Installation.
- 4.3. If your offer is found acceptable, then you will be required to deposit security money with the Institute at the rate of 5% of order/contract value execute this project. The Security money will be forfeited in case of breach of any clause or clauses of the contract by the contractor. However, on successful completion

of agreement/contract, security money will be refunded to the contractor only after satisfactory performance of the contract for which management of the Institute will be the sole judge.

- 4.4. Vendor must provide documentary proof for installing the specified type of equipment including manuals, certification etc.
- 4.5. A group / vendor list of at least 3 references of similar size and scope of project, and the dates of service MUST be provided with the bid. Please attach reference documentation.
- 4.6. There will be a onetime mandatory site evaluation to all bidders.
- 4.7. Awarded vendor must provide a minimum of 7 days of onsite training during after installation.
- 4.8. Vender having office presence in Quetta will be preferred and office in Islamabad , Lahore Karachi for liaison purposes will also be preferred.
- 4.9. Detailed specification sheets of all equipment MUST be submitted with bid.

5.0. **Contract Amendment**

- 5.1. The Purchaser may, at any time, by written notice served on the Contractor, alter, amend, omit, increase, decrease or otherwise change the nature, quality, quantity and scope, of all / any of the Goods / the Services / the Works, in whole or in part.
- 5.2. The Contractor shall, within ten working days of receipt of such notice, submit a cost estimate and execution schedule of the proposed change (hereinafter referred to as the Change), to the Purchaser.
- 5.3. The Contractor shall not execute the Change until and unless the Purchaser has allowed the said Change, by written order served on the Contractor with a copy to the Client.
- 5.4. 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.
- 5.5. No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor

6.0. **QUALITY ASSURANCE**

- 6.1 All equipment, unless otherwise stated herein, shall carry a manufacturer's warranty of one year covering parts and labor and include a one-year advanced replacement program.
- 6.2 All servers and storage devices shall carry a 3 year onsite repair and replacement warranty.
- 6.3 No aftermarket servers or storage devices will be accepted as an approved equal.
- 6.4 The installing contractor shall be the primary contact for warranty responsibility for all equipment, material and work furnished and installed under this specification.
- 6.5 In the presence of owner representative, test-operate all functions of the installation, doing any explanation necessary of the operation and relevant safety features.

7.0. **LABOR & INSTALLATION**

- 7.1. Installation must be scheduled with the **Balochistan University of Engineering & Technology, Khuzdar** project coordinator and must be completed within three months from date of PO .
- 7.2. Any debris resulting from vendor's installation of surveillance system must be promptly removed and disposed of by the vendor. 7.3. Vendor must include cabling and installation amount in bid price.

8.0. TRAINING

- 8.1 A minimum of Seven (7) days of onsite training must be provided by the vendor for **Balochistan University of Engineering & Technology, Khuzdar** employees responsible for utilizing and maintaining the system. The project coordinator will schedule the training with the vendor upon completion of the project.
- 8.2 Vendor must provide two (2) complete user guides including warranty/guarantee information, contact information for maintenance and repairs, and replacement parts listing. Manuals are to be either bound, in a 3-ring binder, or other hard cover book.
- 8.3 Vendor must include training amount in bid price.

9.0. MISCELLANEOUS

- 9.1 All costs for installation of complete, functional system must be included in the bid price. Space has been provided on the Bid Form for the amount(s) of these miscellaneous charges.
- 9.2 Any costs that have not been addressed within the specifications or listed on the following Bid Form must be described below.

- 9.3 All charges and fees must be listed on the following Bid Form. Otherwise, such charges and fees cannot be paid.

10.0. SPECIFICATIONS

GENERAL

- A. All equipment and materials shall be standard components that are regularly used in the manufacturer's system.
- B. For cameras and NVR the specified Brand and software should be quality product not a generic
- C. All equipment shall be thoroughly tested in actual use.
- D. All equipment shall be supported with available contact during 24/7
- E. Technical support number from the vendor that is available at all times.
- F. Network Video Recorders shall have the capability to be managed and serviced from remote location via Internet.
- G. Detailed specification sheets of all equipment must be submitted with bid.