

Part-I

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OFFICE OF THE SUPERINTENDENT DISTRICT PRISON SHAHEED BENAZIR ABAD

NOTICE INVITING BIDS

Sealed bids are invited according to Single Stage Two Envelope Procedure as per SPPRA Rules 2010 (amended upto Date) from the Authorized Persons / Contractors / Firms and General order suppliers duly registered with Income Tax/Sales Tax & other applicable taxes (Federal/Provincial) for supply & installation of Night Vision CCTV Cameras along with necessary articles during the current fiscal year 2016-2017.

Interested firms / companies / bidders may obtain the tender documents (single stage two envelope procedure) for supply of above mentioned articles from the Office of the Superintendent District Prison Shaheed Benazir Abad up to **21/05/2017** from the date of first publication of tender notice in SPPRA Website by submitting application on their letterhead alongwith non refundable tender fee **Rs.500/-** in cash for bid document.

Bid documents will be received back up to **22/05/2017 at 11:00 am** at the Office of the Superintendent District Prison Shaheed Benazir Abad along with **2% bid security** of the total bid price in the shape of pay order / demand draft in favour of Superintendent District Prison Shaheed Benazir Abad along with following relevant papers and will be opened on the same day i.e. on **22/05/2017 at 12:00 noon** by the Procurement Committee in presence of bidders who wish to be present or through their representative. If any holiday falls due to any reason on the opening day of bids, it will be opened on next working day at the given time and venue.

1. Company Name, Postal Address, Contract Phone Number, Email Address and Company Profile.
2. Financial Status (turn-over of at least last three years).
3. National Tax Number, Professional and Sales Tax Registration & Other applicable taxes.
4. List of customer references **(by highlighting the users of same unit)**.
5. Affidavit declaring that the contractor is not involved in any litigation or not black listed.
6. Any other Relevant Document.

Only bids offered on the prescribed Bid form issued by the Superintendent District Prison Shaheed Benazir Abad shall be accepted. However additional sheets may be attached, if required.

Any further information needed, may be obtained from the Office of Superintendent District Prison Shaheed Benazir Abad on any working day during Office hours on phone No.

The Procuring Agency reserves the right to reject all or any bid subject to the relevant provision of SPP Rules 2010 (amended upto date)

Part-II

INSTRUCTIONS:

Scope of work:

Commissioning, demonstration, Supply & Installation of Night Vision CCTV IP Camera.

Bidder has to submit following information:

- a. Extended Warranty for Six (06) Months for CCTV Cameras & allied Devices & one (1) year for LED Tv.
- b. Recommended running hours of CCTV Cameras & Accessories for routine service.
- c. Availability of spare parts backup & documentary evidence to be competent to provide after sale service.

Part-III

SPECIAL TERMS AND CONDITIONS:

1. Submission of Bids:

- a. Bids must be submitted under a proper letter mentioning important points / enclosures.
- b. Bids should be submitted under Single-Stage-Two-Envelope procedure in a sealed package.
- c. For preparation of Bid, interested Bidders are authorized to visit the site for necessary report but procuring agency would not be charged for this purpose.
- d. The bid shall comprise a single package containing two separate envelopes. Each Envelope shall contain separately the Technical Proposal and the Financial Proposal With following documents / information noted against each:-

| | |
|------------------------|---|
| 1. TECHNICAL PROPOSAL: | (Bidding documents in original, earnest money, details of specifications of respective offering item alongwith catalogues and dealership certificate. Sales Tax and Income Tax certificate etc) |
| 2. FINANCIAL PROPOSAL: | (Rate of respective item including all taxes / charges whatsoever). |

- e. No conditional offer shall be accepted.
- f. Sealed Bids should be addressed to:
The Superintendent District Prison Shaheed Benazir Abad, Sindh.

2. Bid Security:

- a. A bid should accompany Bid Security @ rate of 2% of bid cost in shape of Pay order/Demand Draft
- b. A bidder offering more than one option / alternative / brand of the same machine / item / product, should purchase separate bidding documents.
- c. Bid security of unsuccessful bidders will be returned after signing of contract or expiry of bid validity period.
- d. Bid security shall be forfeited in case a bidder withdraws his bid during validity of bids or fails to fulfill conditions of tender in any way, or – in case of a successful bidder – fails to fulfill pre-contract or post-contract requirements.

3. Quantity:

Quantity of advertised items can be increased or decreased or any item(s) can be included / excluded / dropped as per availability of funds.

4. Specifications of machines / goods:

Bidders should provide the following:

- a. Complete specifications: make, model, origin, and full technical information, as per proforma given in the bid document.
- b. In case of a machine manufactured in one country and assembled in another country, clear information may be provided of the parts which are manufactured in the country of assembled.
- c. Complete set of necessary literature (catalogues / brochures).
- d. Affidavit on non-judicial stamp paper – or company letterhead:
 - The bidder is not blacklisted by any government or semi government organization.
 - The machine quoted is new in all respects and there is not 2nd hand/low quality material or part / accessory in the machine.

5. Price:

- a. Price should be quoted in Pak Rupees, including all taxes, duties, charges and inclusive packing / freight till delivery at the office of the Superintendent District Prison Shaheed Benazir Abad and offer shall be valid up to / /2017.
- b. Bidder must offer rates of all the items mentioned in Bill of Quantities (BOQ). Lowest bid will be accepted only of the bidder who's offer lowest rates of the package (BOQ).

6. Company Profile and Eligibility of bidder:

The bidders should submit the following documents with Technical Proposals.

- a. Relevant experience and managerial capability.
- b. Valid dealership certificate of the principal.
- c. Proof of workshops, stock of spares and technical staff in Pakistan.
- d. Two sets of Brochures.

7. Contract & Stamp duty:

0.3 % will be paid by successful bidders as stamp duty to be fixed on the agreement and contract will be signed within 15 days from the date of receipt of work / supply order.

8. Sample, Demonstration and Inspection:

The Procuring Agency may ask bidder to show demonstration of the product after opening of Technical Proposal on same day.

DISTRICT PRISON SHAHEED BENAZIR ABAD



BID DOCUMENT

Single Stage Two Envelope Procedure

**SUPPLY & INSTALLATION OF NIGHT VISION CCTV IP
CAMERA**

Name of bidder _____

No. SB/ _____ R.T NO. _____ Dated ____ / ____ 2016-2017

GOVERNMENT OF SINDH

Telephone # 9370110 - 9370126 email: distrcitjailsba@gmail.com

OFFICE OF THE SUPERINTENDENT DISTRICT PRISON
SHAHEED BENAZIR ABAD

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Part-IV

GENERAL TERMS AND CONDITIONS:

1. **Clarification:** A bidder shall not alter or modify the bid after the bids have been opened. Procurement Committee may, however, seek or accept clarification to the bid that does not change the substance of the bid.

9. **Procuring Agency's Address for the Purpose of Bid Submission:** Same as above.
10. **Deadline for Submission of Bids:** Date: 22/05/2017 Time: 11:00 am.
11. **Venue, Time and Date of Bid Opening:** Office of the Superintendent District Prison Shaheed Benazir Abad Date: 22/05/2017, Time: 12:00 noon.
12. **Responsiveness of Bids:**
- (i) Bid is valid till required period.
 - (ii) Bid prices are firm during currency of contract / price adjustment.
 - (iii) Completion period offered is within specified limits.
 - (iv) Bidder is eligible to Bid and possesses the requisite experience, capability and qualification.
 - (v) Bid does not deviate from basic technical requirement and
 - (vi) Bids are generally in order, etc.
13. **Performance Security:** The successful bidder shall furnish performance security 03% of the total value of bid in shape of pay order / demand draft in favour of Superintendent District Prison Shaheed Benazir Abad.

Part-VI

POST EVALUATION STEPS:

1. **Notification of award and signing the contract:**

Superintendent District Prison Shaheed Benazir Abad shall send to the successful bidder a Purchase Order (PO) / Letter of Acceptance (LoA) and sign contract with the bidder.

2. **Performance Security:**

a. The successful bidder shall furnish a Performance **Security** issued by a scheduled Bank in Pakistan before signing of contract @ rate of **03%** of bid cost valid for 6 months beyond completion date as mentioned at **Part V condition No.13.**

b. The Performance Security will be released after the completion of the contract.

Part-VII

DECLARATION ON PART OF THE BIDDER

We, M/s _____ hereby affirm and declare that we have read all the contents of this Bid Document and the same are fully acceptable to us. We have adhered to the Bid Document while framing our Bid.

Signature of Bidder: _____

Name of Signatory: _____

Designation: _____

Seal: _____

Part - VIII

ARTICLES OF AGREEMENT

This Agreement made this _____ day of _____ 2017, by and between the Superintendent District Prison Shaheed Benazir Abad, hereinafter called the "Party No.1", of the one part, And _____

(Name and Designation of the authorized person)

of _____

located at _____

hereinafter called the "Party No.2" which expression shall include their successor, legal representatives of the second part.

Whereas the Party No.1 requires the stores and related services for District Prison Shaheed Benazir Abad, and whereas the Party No.2 has agreed to supply, install, put into operation and demonstrate the working of the said stores valued at _____

(Amount in figures and words)

in the period of _____ days / months, subject to the terms and conditions set forth, hereinafter, which have been accepted by the Party No.2.

Now this Agreement witnessed as follows:

1. In this agreement works and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents which, for the purpose of identification, have been signed by _____

(name and designation of the authorized person)

on behalf of the **Party No.2**, and by Superintendent District Prison Shaheed Benazir Abad (Party No.1), all of which shall be deemed to form and be read and construed as a part of this **Agreement** viz:

- a) Invitation of Bid;
 - b) Instructions;
 - c) Special Terms and Conditions
 - d) General Terms and Conditions
 - e) Bidding Data
 - f) Post Evaluation Steps
 - g) Declaration on Part of the Bidder
 - h) Articles of Agreement
 - i) Specifications of Items
 - j) Bill of Quantities (BOQ) – (Financial Proposal)
3. In consideration of the payment to be made to the **Party No.2** hereby **covenants** with the Superintendent District Prison Shaheed Benazir Abad to supply, deliver, install, put into operation and demonstrate the working of the stores in conformity in all respects of the Contract.

Part-IX

SPECIFICATIONS OF ITEMS

| S # | Name of Article | Requirement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------|-----------|-----------|----------|--|--|--------------|----------------------------------|--|--|--|--|------------------|-----------------|--|--|--|--|---------|------------|--|--|--|--|-----------------|-------------|--|--|--|--|--------------------------|-------------------------------|--|--|--|--|----------------------|--------------------------------------|--|--|--|--|-----------|----------------|--|--|--|--|-------------|--------------------------|--|--|--|--|-------------------|--------------|--|--|--|--|---------|----|--|--|--|--|-------------|--|--|--|--|--|-----------|-------|--|--|--|--|------------|----------|--|--|--|--|--------------|--------|--|--|--|--|---------------|-----------|--|--|--|--|---------------|----------------------|--|--|--|--|---------------|-------|--|--|--|--|----------------------|-----|--|--|--|--|---------------|------|--------|---------|-----------|----------|--------|------------|-----------|-----------|----------|--------|------------|-----------|-----------|----------|------------|--|--|--|--|--|----------------|---|--|--|--|--|--------------|--|--|--|--|--|-------------|--------------|--|--|--|--|----------------------|-----------|--|--|--|--|------------|--|--|--|--|--|------------|---------------------------------|--|--|--|--|--|----------------------|--|--|--|--|------------------|---------|--|--|--|--|----------|---------------------|--|--|--|--|-----------|-------------------------|--|--|--|--|----------|------------------|--|--|--|--|---------------|---|--|--|--|--|--------------|-------------|--|--|--|--|-----------------|--------|--|--|--|--|-----------------|------------------------------|--|--|--|--|--|
| 01 | <p align="center"><u>Night Vision CCTV IP Camera</u></p> <p>3MP Night Vision IP Camera Specification</p> | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td colspan="6">Camera</td> </tr> <tr> <td>Image Sensor</td> <td colspan="5">1/3" 3Megapixel progressive CMOS</td> </tr> <tr> <td>Effective Pixels</td> <td colspan="5">2304(H)x1536(V)</td> </tr> <tr> <td>RAM/ROM</td> <td colspan="5">256MB/16MB</td> </tr> <tr> <td>Scanning System</td> <td colspan="5">Progressive</td> </tr> <tr> <td>Electronic Shutter Speed</td> <td colspan="5">Auto/Manual, 1/3(4)~1/100000s</td> </tr> <tr> <td>Minimum Illumination</td> <td colspan="5">0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)</td> </tr> <tr> <td>S/N Ratio</td> <td colspan="5">More than 50dB</td> </tr> <tr> <td>IR Distance</td> <td colspan="5">Distance up to 30m(98ft)</td> </tr> <tr> <td>IR On/Off Control</td> <td colspan="5">Auto/ Manual</td> </tr> <tr> <td>IR LEDs</td> <td colspan="5">18</td> </tr> <tr> <td colspan="6">Lens</td> </tr> <tr> <td>Lens Type</td> <td colspan="5">Fixed</td> </tr> <tr> <td>Mount Type</td> <td colspan="5">Board-in</td> </tr> <tr> <td>Focal Length</td> <td colspan="5">3.6 mm</td> </tr> <tr> <td>Max. Aperture</td> <td colspan="5">F2.0/F2.0</td> </tr> <tr> <td>Angle of View</td> <td colspan="5">H:98°/77°, V:51°/41°</td> </tr> <tr> <td>Focus Control</td> <td colspan="5">Fixed</td> </tr> <tr> <td>Close Focus Distance</td> <td colspan="5">N/A</td> </tr> <tr> <td rowspan="3">DORI Distance</td> <td>Lens</td> <td>Detect</td> <td>Observe</td> <td>Recognize</td> <td>Identify</td> </tr> <tr> <td>2.8 mm</td> <td>58m(190ft)</td> <td>23m(75ft)</td> <td>12m(39ft)</td> <td>6m(20ft)</td> </tr> <tr> <td>3.6 mm</td> <td>73m(240ft)</td> <td>29m(95ft)</td> <td>15m(49ft)</td> <td>7m(23ft)</td> </tr> <tr> <td colspan="6">PTZ</td> </tr> <tr> <td>Pan/Tilt Range</td> <td colspan="5">Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°</td> </tr> <tr> <td colspan="6">Video</td> </tr> <tr> <td>Compression</td> <td colspan="5">H.264+/H.264</td> </tr> <tr> <td>Streaming Capability</td> <td colspan="5">2 Streams</td> </tr> <tr> <td>Resolution</td> <td colspan="5">3M(2048×1536)/(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)</td> </tr> <tr> <td>Frame Rate</td> <td colspan="5">3M(1 ~ 20fps)/2M (1 ~ 25/30fps)</td> </tr> <tr> <td></td> <td colspan="5">D1/CIF(1 ~ 25/30fps)</td> </tr> <tr> <td>Bit Rate Control</td> <td colspan="5">CBR/VBR</td> </tr> <tr> <td>Bit Rate</td> <td colspan="5">H264:24K ~ 8192Kbps</td> </tr> <tr> <td>Day/Night</td> <td colspan="5">Auto(iCR) / Color / B/W</td> </tr> <tr> <td>BLC Mode</td> <td colspan="5">BLC / HLC / DWDR</td> </tr> <tr> <td>White Balance</td> <td colspan="5">Auto/Natural/Street Lamp/Outdoor/Manual</td> </tr> <tr> <td>Gain Control</td> <td colspan="5">Auto/Manual</td> </tr> <tr> <td>Noise Reduction</td> <td colspan="5">3D DNR</td> </tr> <tr> <td>Motion Detetion</td> <td colspan="5">Off / On (4 Zone, Rectangle)</td> </tr> </table> | Camera | | | | | | Image Sensor | 1/3" 3Megapixel progressive CMOS | | | | | Effective Pixels | 2304(H)x1536(V) | | | | | RAM/ROM | 256MB/16MB | | | | | Scanning System | Progressive | | | | | Electronic Shutter Speed | Auto/Manual, 1/3(4)~1/100000s | | | | | Minimum Illumination | 0.1Lux/F2.0(Color), 0Lux/F2.0(IR on) | | | | | S/N Ratio | More than 50dB | | | | | IR Distance | Distance up to 30m(98ft) | | | | | IR On/Off Control | Auto/ Manual | | | | | IR LEDs | 18 | | | | | Lens | | | | | | Lens Type | Fixed | | | | | Mount Type | Board-in | | | | | Focal Length | 3.6 mm | | | | | Max. Aperture | F2.0/F2.0 | | | | | Angle of View | H:98°/77°, V:51°/41° | | | | | Focus Control | Fixed | | | | | Close Focus Distance | N/A | | | | | DORI Distance | Lens | Detect | Observe | Recognize | Identify | 2.8 mm | 58m(190ft) | 23m(75ft) | 12m(39ft) | 6m(20ft) | 3.6 mm | 73m(240ft) | 29m(95ft) | 15m(49ft) | 7m(23ft) | PTZ | | | | | | Pan/Tilt Range | Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° | | | | | Video | | | | | | Compression | H.264+/H.264 | | | | | Streaming Capability | 2 Streams | | | | | Resolution | 3M(2048×1536)/(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) | | | | | Frame Rate | 3M(1 ~ 20fps)/2M (1 ~ 25/30fps) | | | | | | D1/CIF(1 ~ 25/30fps) | | | | | Bit Rate Control | CBR/VBR | | | | | Bit Rate | H264:24K ~ 8192Kbps | | | | | Day/Night | Auto(iCR) / Color / B/W | | | | | BLC Mode | BLC / HLC / DWDR | | | | | White Balance | Auto/Natural/Street Lamp/Outdoor/Manual | | | | | Gain Control | Auto/Manual | | | | | Noise Reduction | 3D DNR | | | | | Motion Detetion | Off / On (4 Zone, Rectangle) | | | | | |
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| Image Sensor | 1/3" 3Megapixel progressive CMOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Effective Pixels | 2304(H)x1536(V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RAM/ROM | 256MB/16MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scanning System | Progressive | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electronic Shutter Speed | Auto/Manual, 1/3(4)~1/100000s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Illumination | 0.1Lux/F2.0(Color), 0Lux/F2.0(IR on) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S/N Ratio | More than 50dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IR Distance | Distance up to 30m(98ft) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IR On/Off Control | Auto/ Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IR LEDs | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens Type | Fixed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Type | Board-in | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Focal Length | 3.6 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. Aperture | F2.0/F2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angle of View | H:98°/77°, V:51°/41° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Focus Control | Fixed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Close Focus Distance | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8 mm | 58m(190ft) | 23m(75ft) | 12m(39ft) | 6m(20ft) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.6 mm | 73m(240ft) | 29m(95ft) | 15m(49ft) | 7m(23ft) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PTZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pan/Tilt Range | Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | H.264+/H.264 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Streaming Capability | 2 Streams | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | 3M(2048×1536)/(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Rate | 3M(1 ~ 20fps)/2M (1 ~ 25/30fps) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D1/CIF(1 ~ 25/30fps) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bit Rate Control | CBR/VBR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bit Rate | H264:24K ~ 8192Kbps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day/Night | Auto(iCR) / Color / B/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLC Mode | BLC / HLC / DWDR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Balance | Auto/Natural/Street Lamp/Outdoor/Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gain Control | Auto/Manual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noise Reduction | 3D DNR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motion Detetion | Off / On (4 Zone, Rectangle) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---------------------------|---|--|
| Region of Interest | Off / On (4 Zone) | |
| Electronic Image | Support | |
| Smart IR | Support | |
| Digital Zoom | 16x | |
| Flip | 0°/90°/180°/270° | |
| Mirror | Off / On | |
| Privacy Masking | Off / On (4 Area, Rectangle) | |
| Audio | | |
| Compression | N/A | |
| Network | | |
| Ethernet | RJ-45 (10/100Base-T) | |
| Protocol | HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP; | |
| Interoperability | ONVIF, PSIA, CGI | |
| Streaming Method | Unicast / Multicast | |
| Max. User Access | 10 Users/20 Users | |
| Edge Storage | NAS(Network Attached Storage) Local PC for instant recording | |
| Web Viewer | IE, Chrome, Firefox, Safari | |
| Management Software | Smart PSS, DSS,Easy4ip | |
| Smart Phone compatibility | iPhone, iPad, Android Phone | |
| Certifications | | |
| Certifications | CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B | |
| Electrical | | |
| Power Supply | DC12V PoE (802.3af)(Class 0) | |
| Power Consumption | <7.5W | |
| Environmental | | |
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH | |
| Storage Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH | |
| Ingress Protection | IP67 | |
| Vandal Resistance | N/A | |
| 03 | <u>Supply & Installation of 8 Port 10/100/1000 Network Switches</u> | |
| | SPECIFICATIONS: | |
| | Hardware Features | |
| | Standards and Protocols | IEEE 802.3i/802.3u/ 802.3ab/802.3x |
| | Interface | 8 10/100/1000Mbps RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX |
| | Fan Quantity | Fanless |
| | Power Consumption | Maximum: 4.63W (220V/50Hz) |
| | External Power Supply | External Power Adapter (Output: 5VDC / 0.6A) |
| | Jumbo Frame | 15 KB |
| | Switching Capacity | 16 Gbps |
| | Dimensions (W x D x H) | 7.1 x 3.5 x 1.0 in. (180 x 90 x 25.5 mm) |
| | | 05 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|-----|-----------------|---------|----------------------|---------------------------|-------------------|------|---------------------|---------|---------------------|--------|--------------------|--------|---------------------------|--------------|------------------|--|---------------------|--|------|---|--------------|--|-------|--|--------|--|-----------|--|---------------|--|----------|---|------------|--|------------------------------------|--------------|-------|
| SOFTWARE FEATURES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transfer Method | Store and Forward | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAC Address Table | 4K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Advanced Functions | Green Technology 802.3X Flow Control, Back Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OTHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certification | FCC, CE, RoHs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environment | Operating Temperature: 0 °C~40 °C (32 °F~104 °F); Storage Temperature: -40 °C~70 °C (-40 °F~158 °F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Hard Disk /Storage Disk</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | <p>Specifications: Size 2048 GB/02 Tera Bytes Suitable for Desktop or Server PCs SATA 6Gb/s Interface Boosts Performance Large 2TB Capacity & 7200 RPM Spin Speed OptiCache Technology & 64MB Cache SmartAlign & AcuTrac Technology Accurate Read/Write to Nano-Sized Tracks Advanced Power Modes for Saving Energy Free Disc Wizard Software</p> | 01 No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>LED TV 40"</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | <p>Features/Specification</p> <table border="0"> <tr><td>Size</td><td>40"</td></tr> <tr><td>Panel Type</td><td>Full HD</td></tr> <tr><td>Resolution</td><td>1920*1080</td></tr> <tr><td>Power Consumption</td><td>70 W</td></tr> <tr><td>Viewing Angle</td><td>178/178</td></tr> <tr><td>Refresh Rate</td><td>60Hz</td></tr> <tr><td>Contrast Ratio</td><td>4000:1</td></tr> <tr><td>Colors</td><td>16.7 M(8bit)</td></tr> <tr><td>Warranty</td><td>01 Year</td></tr> <tr><td colspan="2">CONNECTIVITY</td></tr> <tr><td>HDMI</td><td>2</td></tr> <tr><td>Component IN</td><td></td></tr> <tr><td>AV IN</td><td></td></tr> <tr><td>AV OUT</td><td></td></tr> <tr><td>SPDIF OUT</td><td></td></tr> <tr><td>Headphone OUT</td><td></td></tr> <tr><td>USB Port</td><td>2</td></tr> <tr><td>Dimensions</td><td></td></tr> <tr><td>Dimensions with stand W x HxD (mm)</td><td>1083*136*650</td></tr> </table> | Size | 40" | Panel Type | Full HD | Resolution | 1920*1080 | Power Consumption | 70 W | Viewing Angle | 178/178 | Refresh Rate | 60Hz | Contrast Ratio | 4000:1 | Colors | 16.7 M(8bit) | Warranty | 01 Year | CONNECTIVITY | | HDMI | 2 | Component IN | | AV IN | | AV OUT | | SPDIF OUT | | Headphone OUT | | USB Port | 2 | Dimensions | | Dimensions with stand W x HxD (mm) | 1083*136*650 | 01 No |
| Size | 40" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Panel Type | Full HD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | 1920*1080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Consumption | 70 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viewing Angle | 178/178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Refresh Rate | 60Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contrast Ratio | 4000:1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colors | 16.7 M(8bit) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Warranty | 01 Year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONNECTIVITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HDMI | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Component IN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV IN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPDIF OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Headphone OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB Port | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions with stand W x HxD (mm) | 1083*136*650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>16 Channel Network Video Recorder</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | <p>Specifications:</p> <table border="1"> <tr> <td colspan="2"><i>Video/Audio Input</i></td> </tr> <tr> <td>IP video input:</td> <td>16-ch</td> </tr> <tr> <td>Two-way audio input:</td> <td>1-ch, RCA (2.0 Vp-p, 1kΩ)</td> </tr> <tr> <td colspan="2"><i>Network</i></td> </tr> <tr> <td>Incoming bandwidth:</td> <td>160Mbps</td> </tr> <tr> <td>Outgoing bandwidth:</td> <td>80Mbps</td> </tr> <tr> <td>Remote connection:</td> <td>128</td> </tr> <tr> <td colspan="2"><i>Video/Audio Output</i></td> </tr> <tr> <td>HDMI/VGA output:</td> <td>1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz,</td> </tr> </table> | <i>Video/Audio Input</i> | | IP video input: | 16-ch | Two-way audio input: | 1-ch, RCA (2.0 Vp-p, 1kΩ) | <i>Network</i> | | Incoming bandwidth: | 160Mbps | Outgoing bandwidth: | 80Mbps | Remote connection: | 128 | <i>Video/Audio Output</i> | | HDMI/VGA output: | 1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, | 01 No | | | | | | | | | | | | | | | | | | | | |
| <i>Video/Audio Input</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IP video input: | 16-ch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Two-way audio input: | 1-ch, RCA (2.0 Vp-p, 1kΩ) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Network</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Incoming bandwidth: | 160Mbps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outgoing bandwidth: | 80Mbps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remote connection: | 128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Video/Audio Output</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HDMI/VGA output: | 1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---|---|---|
| | 1024 × 768 /60Hz | |
| Recording Resolution: | 6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |
| Frame Rate: | Main stream: 50 fps (P) / 60 fps (N) Sub-stream: 50 fps (P) / 60 fps (N) | |
| Audio Output: | 1-ch, RCA (Linear, 1kΩ) | |
| Synchronous Playback: | 16-ch | |
| Decoding | | |
| Live view / Playback: | 6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |
| Capability: | 16-ch@4CIF, 12-ch@720P 6ch@1080P | |
| Hard Disk | | |
| SATA: | 2 SATA interfaces for 2 HDDs | |
| Capacity: | Up to 4TB for each disk | |
| External Interface | | |
| Network Interface: | 1RJ-45 10/100/1000Mbps self-adaptive Ethernet interface | |
| USB Interface: | 1 × USB 2.0 and 1 × USB 3.0 | |
| Alarm In: | 4-ch | |
| Alarm Out: | 1-ch | |
| POE | | |
| Interface: | 16 independent 100 Mbps PoE network interfaces | |
| Max. Power: | 120W | |
| Supported Standard: | AF and AT | |
| General | | |
| Power Supply: | 100~240W AC | |
| Consumption(without hard disk and POE): | ≤ 10W | |
| Working Temperature: | -10 °C ~ +55 °C (+14 °F ~ + 131 °F) | |
| Working Humidity: | 10 % ~ 90 % | |
| Chassis: | 19 inch rack-mounted IU chassis | |
| Dimensions: | 445 × 290 × 45mm (17.5 × 11.4 × 1.8 inch) | |
| Weight(without HDD): | ≤ 1 kg (2.2lb) | |
| 07 | <u>Service & Installation with material Charges incidental to aforementioned items</u> | - |

Part-X

BILL OF QUANTITIES (BOQ) - (FINANCIAL PROPOSAL)

| S# | Item & Description | Qty | Rate per Unit | Rate in Figures & Words including Taxes | | Total Amount |
|----|--|-----|---------------------|---|-------|--------------|
| | | | | Rate | Taxes | |
| 1. | Night Vision CCTV IP Camera | 08 | | | | |
| 3 | 8 Port 10/100/1000 Network Switches | 05 | | | | |
| 4 | 16 Channel NVR 10/100/1000 | 01 | | | | |
| 5 | LED TV 40" | 01 | | | | |
| 6 | Hard Disk / Storage Drive 2 TB | 01 | | | | |
| 7 | Service / Installation with material charges | - | | | | |
| | | | Grand Total: | | | |

Name, Signature & Stamp of Bidder

OFFICE OF THE SUPERINTENDENT DISTRICT PRISON SHAHEED BENAZIRABAD



Phone No: 0244-9370126

FAX No: 0244-9370110

No: 3195 of 2017

Dated: 06-05-2017

TENDER NOTICE

(Through Website SPPRA)

Sealed bids are invited according to Single Stage Two Envelope Procedure as per SPPRA Rules 2010 (amended up to Date) from the Authorized Persons / Contractors / Firms and General Order suppliers duly registered with Income Tax/Sales Tax & other applicable taxes (Federal/Provincial) for supply & installation of following articles during the current fiscal year 2016-2017.

| S.No | Name of Items | Quantity | Tender Fee |
|------|--|----------|------------|
| 01 | Night Vision CCTV IP Camera 3MP | 08 | Rs.500/- |
| 03 | 8 Port 10/100/1000 Network Switches | 05 | |
| 04 | LED TV 40" | 01 | |
| 05 | 16 Channel NVR 10/100/1000 | 01 | |
| 06 | Hard Disk / Disk Storage 2 TB | 01 | |
| 07 | Service / Installation with material charges | - | |

- i. Bid documents containing details i.e. bid security, performance security, terms & conditions, evaluation criteria, quantity and specifications etc can be obtained from the office of the Superintendent District Prison Shaheed Benazir Abad up to **21/05/2017** from the date of first publication of tender notice in SPPRA Website. Tender fee of items as mentioned above will be in cash (non-refundable).
- ii. Bid document of above mentioned articles shall be received back on **22/05/2017 upto 11:00 a.m** (complete in all respect) by hand only at the Office of the Superintendent District Prison Shaheed Benazir Abad and shall be opened on the same day i.e. on **22/05/2017 at 12:00 noon** by the Procurement Committee, in presence of bidders who intends to be present or through their representative. In case, any public holiday falls due to any reason on the opening day of bids, then it shall be received and opened on the next working day, at the given time and venue.
- iii. Bid Security amounting to **02%** of Bid price must be submitted along with Bid in shape of pay order in favor of the Superintendent District Prison Shaheed Benazir Abad, issued by any scheduled bank of Pakistan.
- iv. Bid documents of aforesaid items are available at SPPRA website i.e. www.pprasindh.gov.pk.
- v. Tender Notice (NIT) is also available at SPPRA website (www.pprasindh.gov.pk).
- vi. The bidder who gets the bid document by downloading from website must attach tender fee in shape of pay order as mentioned above.
- vii. Conditional Bid / application will not be entertained.
- viii. Any further information, if needed, may be obtained from the Office of Superintendent District Prison Shaheed Benazir Abad on any working day during Office hours or on phone No. 0244-9370110--9370126
- ix. The Procuring Agency may increase or decrease quantity of the items as per rules.
- x. The Procuring Agency may reject all or any bid at any time prior to the acceptance of a bid, subject to the relevant provisions of SPPRA rules 2010 (amended up to date)


SUPERINTENDENT
DISTRICT PRISON SHAHEED BENAZIR ABAD



Telephone No. 021-99231418
Fax #: 021-99231084
Email: sindhprisons@gmail.com

**OFFICE OF THE
INSPECTOR GENERAL OF PRISONS, SINDH**

Pir Illahi Buksh Road Muslimabad, Karachi.

No.SB-1/ 10627/

Dated: 5-5-2017

ORDER

In pursuance of Rule No.31 of Sindh Public Procurement Regulatory Authority 2010 (amended 2013), a Committee known as "Redressal of Grievances and Settlement of Disputes" to addressed the complaints of bidders that may occur during the procurement proceedings for District Prison Shaheed Benazirabad consisting of following officers is constituted with immediate effect for the financial year 2016-2017.

| | | |
|------|--|-----------------------|
| i. | Deputy Inspector General of Prisons Hyderabad Region | Head of the Committee |
| ii. | District Accounts Officer, Hyderabad | Member |
| iii. | Officer of relevant field | Member |

(NUSRAT HUSSAIN MANGAN)
INSPECTOR GENERAL OF PRISONS
SINDH KARACHI

Copy forwarded for information & necessary action to:

1. The Deputy Inspector General of Prisons Hyderabad Region.
2. The Superintendent, District Prison Shaheed Benazirabad.
3. The District Accounts Officer, Hyderabad.

(NUSRAT HUSSAIN MANGAN)
INSPECTOR GENERAL OF PRISONS
SINDH KARACHI



Telephone No. 021-99231418
Fax #: 021-99231084
Email: sindhprisons@gmail.com

**OFFICE OF THE
INSPECTOR GENERAL OF PRISONS, SINDH**
Pir Illahi Buksh Road Muslimabad, Karachi.

No.SB-1/ 10630/ Dated: 5-5-2017

ORDER

In pursuance of Rule No.7 as prescribed in Sindh Public Procurement Act 2009 and Sindh Public Procurement Regulatory Authority 2010 (amended 2013), the following Committee are constituted for procurement of machinery & equipment / CCTV Cameras for District Prison Shaheed Benazirabad during the current financial year 2016-2017.

Procurement Committee for Machinery & Equipment / CCTV Cameras.

| | | |
|------|--|-----------------------|
| i. | Superintendent, District Prison Shaheed Benazirabad | Head of the Committee |
| ii. | Executive Engineer Provincial Buildings Division Shaheed Benazirabad | Member |
| iii. | Deputy Superintendent, District Prison Shaheed Benazirabad | Member |

The Procurement Committee shall follow the rules & regulations relating to procurement as prescribed in Sindh Public Procurement Act 2009 and Sindh Public Procurement Regulatory Authority 2010 (amended 2013).

(NUSRAT HUSSAIN MANGAN)
INSPECTOR GENERAL OF PRISONS
SINDH KARACHI

Copy forwarded for information & necessary action to:

1. The Deputy Inspector General of Prisons Hyderabad Region.
2. The Superintendent, District Prison Shaheed Benazirabad.
3. The Deputy Superintendent, District Prison Shaheed Benazirabad.
4. The Executive Engineer Provincial Buildings Division Shaheed Benazirabad.

(NUSRAT HUSSAIN MANGAN)
INSPECTOR GENERAL OF PRISONS
SINDH KARACHI

ANNUAL PROCUREMENT PLAN

(WORKS, GOODS & SERVICES)

FINANCIAL YEAR 2016-17

| S.# | Description of Procurement | Estimated Unit Cost (where applicable) | Estimated total cost | Funds Allocated | Source of Funds (ADP / Non ADP) | Proposed Procurement Method | Timing of Procurements | | | |
|-----|--|--|----------------------|-----------------|---|-------------------------------------|------------------------|---------|---------|-------------------------|
| | | | | | | | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr |
| 1 | Supply & Installation of CCTV Cameras at District Prison Shaheed Benazir Abad for security purpose | - | - | 215,000/- | Provision of Fund in Revised Estimate (4 th Quarter) | Single Stage Two Envelope Procedure | N/A | N/A | N/A | 4 th Quarter |


SUPERINTENDENT
DISTRICT PRISON SHAAHEED BENAZIR ABAD