



Telephone No. 022-9210378
Fax No. 022-9210377
Email: hyderabadcentralprison@gmail.com

**OFFICE OF THE
SUPERINTENDENT CENTRAL PRISON
HYDERABAD**

No. TR.

Dated: -

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	15	Rs.1000/-
02	Laser CCTV IP Camera 2 Mega Pixel Speed Dome including Bracket	20	
03	8 Port 10/100/1000 Network Switches	03	
04	LED TV 50"	03	
05	16 Channel NVR 10/100/1000	03	
06	Hard Disk / Disk Storage 03 TB	03	
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 Central Prison Hyderabad up to **30/05/2017** 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 **31/ 05 /2017 upto 11:00 a.m** (complete in all respect) by hand only at the Office of the Superintendent Central Prison Hyderabad and shall be opened on the same day i.e. on **31/05/2017 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 Central Prison Hyderabad, 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 Central Prison Hyderabad on any working day during Office hours or on phone No. 022-9210377-78.
- 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)

(ZIA-UR-REHMAN)
SUPERINTENDENT
CENTRAL PRISON HYDERABAD

ANNUAL PROCUREMENT PLAN

(WORKS, GOODS & SERVICES)

FINANCIAL YEAR 2016-17

S.#	Description of Procurement	Estimated Unit Cost (where applicable)	Total Estimated Cost	Funds Allocated	Proposed Procurement Method	Timing of Procurements			
						1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
1	Supply & Installation of CCTV / IP Night Vision Cameras at Central Prison Hyderabad for security purpose	-	-	1.4 (M)	Single Stage Two Envelope Procedure	N/A	N/A	N/A	4 th Quarter

(ZIAUR-REHMAN)
SUPERINTENDENT
CENTRAL PRISON HYDERABAD

CENTRAL PRISON HYDERABAD



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

OFFICE OF THE SUPERINTENDENT CENTRAL PRISON
HYDERABAD

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Part-I

OFFICE OF THE SUPERINTENDENT CENTRAL PRISON **HYDERABAD**

NOTICE INVITING BIDS

Sealed bids are invited according to Single Stage Two Envelopes 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 other necessary accessories / articles during the current fiscal year 2016-2017.

Interested firms / companies / bidders may obtain the tender documents (single stage two envelopes procedure) for supply of above mentioned articles from the Office of the Superintendent Central Prison Hyderabad up to **30/05/2017** from the date of first publication of tender notice in SPPRA Website by submitting application on their letter head alongwith non-refundable tender fee **Rs.1000/-** in cash for obtaining bid document.

Bid documents will be received back up to **31/05/2017 at 11:00 am** at the Office of the Superintendent Central Prison Hyderabad along with **2% bid security** of the total bid price in the shape of pay order / demand draft in favour of Superintendent Central Prison Hyderabad along with following relevant papers, which will be opened on the same day i.e. on **31/05/2017 at 12:00 noon** by the Procurement Committee in presence of bidders who wish to be present or through their representative duly authorised. If any holiday falls / or other circumstances occur 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 / firm / bidder neither involved in any litigation nor black listed.
6. Any other Relevant Document.

Only bids offered on the prescribed Bid Form issued by the Superintendent Central Prison Hyderabad shall be accepted. However additional sheets may be attached, if required.

Any further information required, may be obtained from the Office of Superintendent Central Prison Hyderabad on any working day during Office hours on phone No.022-9210377-78.

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:

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

Bidder will have 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 proof of appliance are to be 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 / information / enclosures etc.
- b. Bids should be submitted under Single-Stage-Two-Envelopes procedure in a sealed package.
- c. For preparation of Bid, interested Bidders can visit the site for preparation of 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 client 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 Central Prison, Hyderabad, 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 / equipment / 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 is manufactured in one country and assembled in another country, clear information must be provided regarding parts manufacturing country and machine assembling country.
 - 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 is not of 2nd hand/low quality material or part / accessory used 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 Central Prison Hyderabad and offer shall be valid up to / /2017.
 - b. Bidder must offer rates of all the items mentioned in Bill of Quantities (BOQ) in word and figures. Lowest bid will be accepted only of the bidder who's rates are lowest of the package (BOQ).
- 6. Company Profile and Eligibility of bidder:**
- The bidders shall 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 offered 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 the to show demonstrate the product after opening of Technical Proposal on same day.

Part-IV

GENERAL TERMS AND CONDITIONS:

1. **Clarification:** A bidder shall not alter or modify the bid after opening of the bids. Procurement Committee may, however, seek or accept clarification to the bid that does not change the substance of the bid.
2. **Delivery & Installation** shall be made within **07 days** from the date of signing of the contract. Delivery period can be extended on reasonable grounds.
3. **Liquidated Damages (L.Ds):** The Superintendent Central Prison Hyderabad shall impose LDs @ Rs. 0.25% per week (to the maximum of Rs.10% of the total value) on delayed delivery.
4. **Grievance Redressal:** Any bidder if aggrieved by any act of **Procurement Committee**, may lodge written complaint concerning his grievances to the Grievance Redressal Committee.
5. **The Procuring Agency** may reject all or any bid, as per SPP Rules 2010 (amended upto date).

Part-V

BIDDING DATA

1. **Name of Procuring Agency:** Superintendent Central Prison Hyderabad.
2. **Brief Description of Works:** Supply & Installation of Night Vision CCTV IP Camera along with necessary articles at Central Prison Hyderabad.
3. **Procuring Agency's address:** Office of the Superintendent Central Prison Hyderabad.
4. **Currency:** Currency shall be quoted within bid entirely in Pak Rupees. The payment shall be made in Pak Rupees through cheque.
5. **Literature:** Bidder must provide bid photographs, catalogues, illustration and such other information with bid which deemed necessary to illustrate the significant characteristics such as general construction dimensions and other relevant information about the works to be performed.
6. **Amount of Bid Security:** 2% of bid cost.

7. **Period of Bid Validity:** 90 days countable from date of opening.
8. **Number of Copies of the Bid to be submitted:** One original.
9. **Procuring Agency's Address for the Purpose of Bid Submission:** Same as above.
10. **Deadline for Submission of Bids:** Date: **30/05/2017** Time: **11:00 am**.
11. **Venue, Time and Date of Bid Opening:** Office of the Superintendent Central Prison Hyderabad Date: **31/05/2017**, Time: **12:00 noon**.
12. **Responsiveness of Bids:**
 - (i) Bid is valid till specified period.
 - (ii) Completion period offered is within specified limits.
 - (iii) Bidder is eligible to Bid and possesses the requisite experience, capability and qualification.
 - (iv) Bid does not deviate from basic technical requirement.
 - (v) Bids are generally in order, etc.
13. **Performance Security:** The successful bidder shall furnish performance security **05%** of the total value of bid in shape of pay order / demand draft in favour of Superintendent Central Prison Hyderabad

Part-VI

POST EVALUATION STEPS:

1. Notification of award and signing the contract:

Superintendent Central Prison Hyderabad shall send to the successful bidder a Purchase Order (PO) / Letter of Acceptance (LoA) to the successful bidder and sign contract with him.

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 **05%** 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 satisfactory performance of contract and Performance of the Machine / Equipment for 6 months.
- c. The Performance **Security** is liable to be forfeited in the event of failure on part of the supplier in fulfilling the terms of contract any breach thereof, or the item / machine supplied is found deficient in any particular as to workability, quality and quantity.

3. Warranty & After Sale Services:

The bidder shall provide the following:

- a. Installation and commissioning of the machine / equipment and initial operational training to Central Prison Hyderabad personnel for a suitable period.
- b. Warranty for a maximum period of 06 months for Cameras & One year for LED and free of cost service after sale during the period of Warranty which will include: repair, replacement and maintenance of parts & travel to site.
- c. Assurance of the availability of spares parts for minimum period of 06 months after the warranty.

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 Central Prison Hyderabad., 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 Central Prison Hyderabad., and whereas the Party No.2 has agreed to supply, install, put into operation and demonstrate the working of the said equipment 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 Central Prison Hyderabad (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 Central Prison Hyderabad to supply, deliver, install, put into operation and demonstrate the working of the equipment in conformity in all respects of the Contract.

4. The **Superintendent Central Prison Hyderabad** hereby **covenants** to pay the contractor in consideration of the supply, delivery, installation, putting into operation and demonstration of the working of the equipment the contract price in the manner prescribed by the contract and approved by the Superintendent Central Prison Hyderabad.

In witness There of the parties have hereinto set their respective hands and seals, the day month and year above written.

***SUPERINTENDENT
CENTRAL PRISON HYDERABAD***

WITNESSES OF PARTY NO.1:

Witness No. 1: Signature _____

 Name: _____

 Designation: _____

witness No. 2: Signature: _____

 Name: _____

 Designation: _____

CONTRACTOR

WITNESSES OF PARTY NO.2:

Witness No. 1: Signature: _____

 Name: _____

 Designation: _____

Witness No. 2: Signature: _____

 Name: _____

 Designation: _____

Part-IX

SPECIFICATIONS OF ITEMS

S #	Name of Article	Requirement	
01	<u>Night Vision CCTV IP Camera</u>	15	
	4MP Night Vision IP Camera Specification		
	Camera		
	Image Sensor		4 Megapixel progressive CMOS
	Effective Pixels		2304H)x1536(V) HD 4K
	RAM/ROM		2GB / 1GB
	Scanning System		Progressive
	Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s
	Minimum Illumination		2.0Lux/F2.0(Color), 2Lux/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
	PTZ		
	Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°
	Video		
	Compression		H.264+/H.264 HD 4K
	Streaming Capability		4 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)s)
			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 Detection	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)
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 on Hard Disk
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

<u>Laser CCTV IP Camera 20 Mega Pixel Speed Dome including Bracket</u>	
<u>Specification</u>	
Image Sensor	Diagonal 405 mm (type ¼)
Min. Illumination	659 (H)x494(V) approx. 330K pixels 692 (H)x504(V) approx. 350K pixels
Shutter time	1/3 to 1/100000 s
Lens	4 mm @ F2.0 (6mm, 16mm optional) angle of view : 85 4 mm @ F2.0 (6mm, 16mm optional) angle of view : 70
Lens Mount	M12
Day & Night	ICR
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Digital DNR
Compression Standard	
Video Compression	H.264/MJPEG
H.264 Codec Profile	Main Profile
Bit Rate	32 KBPS~12 MBPS
Dual Stream	Yes
Image	
Max Image Resolution	1920x1080 I HD
Frame Rate	50hz:25fbps(1920x1080), 25 fbps (1280x960) 25fps (1280x720) 60hz 25fbps (1920x1080) 30fbps (1280x960) 30fps (1280x720)

02

20

Backlight Compensation	Yes Zone optional
ROI	Support
Network	
Network Storage	NAS
Alarm Trigger	Motion detection tampering alarm Network Disconnect, IP address conflict, instruction detection, line crossing detection, storage full, storage Error
System Compatibility	ONVIF,PSIA,CGI,ISAPI
General Functionalities	User Authentication, water mark, IP address Filtering, Anonymous access
Interface	
Communication interface	1RJ45 10M/ 100M Ethernet Interface
General	
Operating Conditions	-30C ~ 60C (-22F ~ 140F) Humidity 95% or less (non-condensing)
Power Supply	12 VDC 10% POE(802,3af)
Power Consumption	-I3:max. 5.5w, -I5: max 7w, -I8: max 10w
Ingress Protection	
IP Range	-I3 1pcs EXIR LED, upto 30m, I5 2pcs EXIR LED, upto 50 m , I8 4pcs EXIR LEDs up to 80m
Dimensions	299.71mmx86.40mmx85.11mm (11.8"x3.4" X 3.35"
Zoom	30xZoom High Speed

Supply & Installation of 8 Port 10/100/1000 Network Switches

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)

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
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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
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03

03

Hard Disk/Storage Disk

Specifications:

Size 03/GB Tera Bvtes
Suitable for Desktop or Server PCs
SATA 6Gb/s Interface Boosts Performance
Large 3TB Capacity & 7200 RPM Spin Speed

04

03 Nos

OptiCache Technology & 64 MB Cache
 SmartAlign & AcuTrac Technology
 Accurate Read/Write to Nano-Sized Tracks
 Advanced Power Modes for Saving Energy
 Free Disc Wizard Software

05	<u>LED TV 50"</u>		03
	<u>Features/Specification</u>		
	Size	50"	
	Penal Type	Full HD 4K	
	Resolution	1920*1080 i	
	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	2	
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>		03
<u>Specifications:</u>		
<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	
<u>Decoding</u>		

	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	Optical Fiber 08 Pair		----
08	Service & Installation with material Charges incidental to aforementioned items		-

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	15				
2	Laser CCTV IP Camera 2 Mega Pixel Speed Dome including Bracket	20				
3	8 Port 10/100/1000 Network Switches	03				
4	16 Channel NVR 10/100/1000	03				
5	LED TV 50"	03				
6	Hard Disk / Storage Drive 3 TB	03				
7	Service / Installation with material charges	-				
			Grand Total:			

Name, Signature & Stamp of Bidder