



18 / 04 / 2023

**INVITATION TO BID AND GENERAL CONDITIONS OF TENDER**

1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee invites Bid/s from prospective Bidders for supply of items listed in the schedule in Annex "A". The relevant specifications of the items are indicated in Annex "B".

2. **CLOSING DATE & TIME.** The tender will close at 1000 hrs on 02 /05/2023. Any Bid submitted after the closing time of the tender will be rejected & unopened such bids will be returned to the bidder.

3. **VALIDITY OF BID.** The bid submitted under this tender must be valid for a minimum period of 49 days from the date of closing of tender.

4. (a) **BID BOND / GUARANTEE.** If the quoted bid value exceeds Rs: 2,000,000.00, such Bids should be accompanied with 1% of Bid Value an "on demand" and "unconditional" Bid Bond/Guarantee for a sum of Rs: ..... in the format given in Annex "C" through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, ie, for 60 days from the date of Bid opening. Cheques will not be accepted as Bid Guarantee.

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a "major deviation" and such offer will not be considered for further procurement action and will be rejected.

5. **VALUE ADDED TAX.** The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex "A" and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) issued for the current financial year from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.

6. **BID SUBMISSION.** The bidder must duly sign at the last page (before Annexes) of this document indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. The Bid/s that do not include authorized signature will be rejected. The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the appropriate tender box placed at General Sir John Kotelawala Defence University, Southern Campus, Nugegalayaya, Sewanagala (at the Main Entrance of General Sir John Kotelawala Defence University Southern Campus) on or before the time & date specified for the closing of tender. The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop.

Tender Ref No .....  
Closing Date & Time .....

The Chairman,  
Department Procurement Committee,  
General Sir John Kotelawala Defence University,  
Southern Campus,  
Sri Lanka.

7. The Bid/s must be submitted in the attached schedule of prices in Annex "A" as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in three copies along with duly signed copy of a General Conditions of tender. The Bid/s must contain **Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc** necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

8. **SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES.**  
When it is required to submit samples, every offer must be accompanied with pre - marked samples. The marking of samples indicating the Bidder & Offer number must be done and the samples must be handed over to the officer at same place where tender box is placed on or before the closing date & time of the Bid. Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately for all offers indicated in their bid/s.

(1) **Samples.** Please submit ..... Samples.

(2) **Testing Charges.** A sum of Rs. .... per offer must be paid to the Bursar of KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.

9. **BID OPENING.** All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue.** Bidders or their accredited agents could be present at the time of opening of bids.

10. **PRICES.**

For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to General Sir John Kotelawala Defence University Ratmalana, Faculty of Allied Health Science (FAHS) Werahera and University Hospital Werahera or Southern Campus Sooriyawewa. **Unit price, VAT and Total price should be clearly indicated in schedule in Annex "A".** Other than VAT, all other type of taxes (eg : NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

11. **RESTRICTED TENDERS.** Invitation to Bids are circulated among the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.

12. **PERFORMANCE BOND/GUARANTEE.** A successful bidder shall furnish a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of Sri Lanka to issue such Performance Guarantee for this purpose. **within two weeks from the date of notification of award.** The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items on time or fails to complete the works as per the agreed contract, **THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE** will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.

13. **SIGNING OF CONTRACT.** The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 500,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.

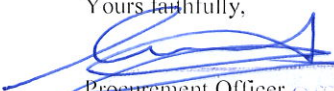
14. **DELIVERY.** Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 60 days of signing of contract.** unless mutually agreed for extended delivery period with General Sir John Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "D".** In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized.** Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.

15. **LIQUIDATED DAMAGES.** In case of delivery period extensions requested by the successful bidder, a sum equivalent to 1% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 12% of the total value of delayed supplies.

16. **PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS.** Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by General Sir John Kotelawala Defence University authorities. The delivery made to the General Sir John Kotelawala Defence University should not be considered as quantities taken over by General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from General Sir John Kotelawala Defence University stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 45 days period of credit from the date of acceptance of items for Account Office, General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.

17. **RIGHTS OF THE PROCUREMENT COMMITTEE.** The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You,  
Yours faithfully,

  
Procurement Officer  
For Vice Chancellor  
General Sir John Kotelawala Defence University  
Nugeganyaya  
Sewanagala

SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMSSUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE THE CCTV SURVEILLANCE SYSTEM AT KDU SOUTHERN CAMPUS – PHASE I

S/N	ITEMS	DENO	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
	Please see the "Annex B"				
	<b>TOTAL</b>				
	<b>VAT 15%</b>				
	<b>GRAND TOTAL</b>				

1. Country of Manufacture :- .....
2. Brand Name :- .....
3. VAT Registration No :- .....
- (VALUE ADDED TAX PERMANENT REGISTRATION CERTIFICATE /VAT EXEMPTION LETTER ISSUED BY DEPARTMENT OF INLAND REVENUE TO BE ATTACHED)
4. Warranty Period:- .....
5. Delivery Schedule :- .....
6. Payment Terms :- **Credit**
7. MOD registered No :- .....
8. Name of the Company/Bidder :- .....
9. Address of the Company/Bidder :- .....
10. E-Mail address of the Company/Bidder :- .....
11. Phone Number of the Company/Bidder :- .....
12. Date :- .....
13. Authorized person Signature of Company/Bidder :- .....
14. Stamp of Company/Bidder :- .....

I/We agree to abide by the condition No 01-17 of bidding invitation and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

..... Signature

..... Name of Signatory

.....Name of the Company/Bidder

Date :- .....

Company seal

SPECIFICATION SCHEDULE

EXTRA SPECIFICATION: NO

Device Description	Nos	Spec Annexure no:
32 Channels NVR	1	1.0
2mp Dome Camera	6	2.0
UPS - 1kva	6	7.0
8 Port POE Switch	6	8.0
Work Station for VMS	1	9.0, 10.0
Displays for Viewing stations	1	11.0
UPS 3KV with battery backup 2HR	1	12.0
7U Rack	6	13.0
35U Rack	1	14.0
Passive Network(Fibre Cabling, UTP cabl	As per the Site Vis	3.0,5.0,4.0,6.0

\*\*\* Note

All Bidders must visit the KDU Southern Campus premises before submitting the quotations, those suppliers only be consider in the evaluation process.

**MINIMUM TECHNICAL SPECIFICATION FOR THE SUPPLY, INSTALLATION  
COMMISSIONING AND MAINTENANCE THE CCTV SURVEILLANCE SYSTEM  
OF SOUTHERN CAMPUS GENERAL SIR JOHN KOTELAWALA DEFENCE  
UNIVERSITY – PHASE I**

<b>1.0 32 ports Network video Recorder</b>		<i>Compliance</i>	<i>Remarks</i>
<b>Description / Required minimum specification</b>		<i>Yes/NO</i>	
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
Hardware and General features			
Type	NVR		
IP video input	32-channels		
Incoming bandwidth	160 Mbps or better		
Outgoing bandwidth	64 Mbps or better		
Decoding format	H.265/H.265+/H.264/H.264+/MPEG4		
Video Output	HDMI (4K) / VGA (1920x1080p/60Hz		
Audio Output	1 Channel, RCA compression G.711A/U		
Live view Display	Up to 32		
Synchronous play	Up to 32		
Snapshots	4 channels snapshot up to 704 x 480 pixels		
Recording resolution	CIF to 8MP		
Network protocols	TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS		
Hard disk	Shall include 4 SATA interfaces, each up to 8TB HDD		
	40TB Capacity		
	Shall provide sufficient HDD from surveillance grade hard disks enough for keep records for 3 months at motion-based record (60%) at 20fps in good resolution		
Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface		
Analytics	Shall support, Cross Line Detection, Entering and leaving specific Area, Defocus Detection, Scene Change Detection, Object Left / Removed		
	Crowd formation and people counting		
Search	Shall support video content analysis on behavior		
Alarm	Motion detection, Tampering, Identifying a person, Video Loss/ network loss detection. HDD error. HDD full, abnormalities of recording or snapshots		
USB interface	2 × USB 2.0, one should support USB 3.0		
Power supply	12V DC power adapter		
Compliance	Shall complying CE, EN, ROHS, WEEE standards to meet the safety, health and environmental protection		
Warranty	3 years manufacturer warranty		

*Network Admin*

2.0 2MP Dome Camera		Compliance	Remarks
Description / Required minimum specification		Yes/NO	
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
Hardware and General features			
Type	IP, IR Fixed Dome Camera		
Image Sensor	1/2.7" Progressive Scan CMOS, 2MP		
Lens	2.8mm @ F2.0		
Illumination	Must support 0.01Lux on colors & 0 Lux with IR		
Picture clarity	Shall support Automatic Gain Control		
Shutter Speed	Auto/Manual, 1 ~ 1/100000s		
Video Bit rate	128 Kbps~6144 kbps		
Wide Dynamic Range	120 dB		
Day & Night	IR Cut Filter		
Field of View	Horizontal FOV: 112°, vertical FOV: 59°, diagonal FOV: 121°		
Adjustment	0° to 360° (-+5°) in all the 3 axes, Pan, Tilt, Rotate		
IR Range	Up to 30 m		
Resolution	2MP		
Location supports	Corridor mode		
Video stream supports	Ultra 265 H.265 and H.264		
Video restrictions	Define up to 4 privacy areas and mask them		
Audio	Built in Microphone		
API	ONVIF (PROFILE S, G, T), API, SDK		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP™, SMTP, SNMP, IGMP		
Network Storage	NAS (NFS), ANR		
On-board Storage	Built-in micro-SD/micro SDHC/micro SDXC slot, up to 128 GB		
Web Browser	IE 8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+		
Protection	IP67 (IEC 60529-2013) and IK10		
Camera Material	Front cover: plastic, base: metal		
Power Supply	12 VDC ± 25%, PoE: 802.3af, class 3		
Power Consumption and Current	12 VDC, 0.3 A, max. 5 W		
Security	Password protection, HTTPS encryption, Export logs, Authentication for RTSP, HTTP, TLS 1.2, WSSE, ONVIF		
Compliance	Shall complying CE, EN, ROHS, WEEE standards to meet the safety, health and environmental protection		
Warranty	3 years manufacturer warranty		

*Adrian*  
*(Network Admin)*

<b>3.0. CAT-6 Cable</b>		
<b>Description / Required minimum specification</b>	<b>Confirm (Yes/No)</b>	<b>Remarks</b>
Make: Please specify		
Model: Please specify		
Country of origin (Europe, USA or UK will be preferred)		
Country of manufacture: Please specify		
Same manufacturer of patch cord, patch panel and all UTP products quoted		
The Cat.6 U/UTP cable shall comply with a crush resistance greater to 1,000N/10cm.		
Characteristic Impedance at 350Mhz shall be $100\Omega \pm 15\Omega$		
Conductor: Bare copper wire 0.55mm (AWG23)		
Comply to ANSI/TIA-568.2-D:2018, ISO/IEC 11801-1:2017 & ETL Certified		
Support to 10BASE-T Ethernet		
Flame retardancy is verified according to IEC 60332-1-2		
Diameter of the outer jacket not greater than 6.5mm		
Bend radius of the cable in the termination area shall not be less than 4 times the outside diameter of the cable.		
Cabling System shall be tested with Industrial approved method and report should submit		
25 Years for system performance warranty should be provided		
Warranty should provide a 05-year component warranty		

<b>5.0. CAT-6 Patch Cords</b>		
<b>Description / Required minimum specification</b>	<b>Confirm (Yes/No)</b>	<b>Remarks</b>
Make: Please specify		
Model: Please specify		
Country of origin (Europe, USA or UK will be preferred)		
Country of manufacture: Please specify		
Same as Cat6 Cable Manufacturer		
Comply to ISO/IEC 11801-1 Class E 207, ANSI/TIA 568.2-D		
AWG 23 or greater conductor		
Fire safety standard: IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2		
Shall achieve low smoke density of IEC 61034 standard		
Comply to Zero halogen non corrosive gasses of IEC 60754 standard		
Desired performance of 350 MHz to form Class E end-to-end cabling channel.		
PS NEXT test at 250MHZ should not be less than 40dB		
All patch cords proposed shall be factory terminated at both ends, field terminated patch cords will not be acceptable.		
25 Years for system performance warranty should be provided		
Warranty should provide a 05-year component warranty		
Same Manufacturer as CAT6 cable		

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(Network Admin)

#### 4.0. Single Faceplate

Description / Required minimum specification	Confirm (Yes /No)	Remarks
Make: Please specify		
Model: Please specify		
Country of origin (Europe, USA or UK will be preferred)		
Country of manufacture: Please specify		
Same as Cat6 Cable Manufacturer		
Faceplate shall accept only keystone Modular Jacks		
Faceplate shall be spring loaded shuttered on the jack holder		
TO shall meet the British Standard type with cover frame of 86 mm x 86mm.		
Complete BS type Single wall outlet with shutter		
A replaceable transparent plastic label holder.		

#### 6.0 CAT-6 Keystone Modular Jack

Description / Required minimum specification	Confirm (Yes /No)	Remarks
Make: Please specify		
Model: Please specify		
Country of origin (Europe, USA or UK will be preferred)		
Country of manufacture: Please specify		
Same as Cat6 Cable Manufacturer		
25 Years for system performance warranty should be provided		
Warranty should provide a 05-year component warranty		
Manufacturer should be complying to UL94 V-0, T568 A&B wiring		
Bandwidth of 500 MHz or higher		
The connector should be used for terminating all types of Shielded cable		
The connectors- phosphor bronze, 50µ inch gold plated over nickel or better		
Accept copper wire accepts 22-26 AWG solid cables		
Modular Jack shall be specified and support to 10BASE-T Ethernet		
Modular Jack shall be with dust shutter		
Operating Life: ≥ 750 insertion		

#### 7.0 UPS – 1kVA

Description / Required minimum specification	Confirm (Yes/No)	Remarks
Output power rating of 1kVA		
Output voltage 220V/240V +-5%, Frequency 50Hz +- 0.5Hz		
Input voltage range 180V-260V AC, 50Hz		
10-minute backup time at full load, and 20-minute backup time at 50% load		
Sealed type batteries		
Audible alarms to indicate battery operation		
RS-232 interface and matching cable for remote shutdown		
Three-year manufacture authorized Warranty		

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*(Redmond Admin)*



### 8.0 Layer 3 switch: 8G PoE+ Switch

Description / Required minimum specification		Compliance (Yes / No)	Remarks
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
Form Factor	1U Rack Mountable		
Management	Manageable		
<b>Ports</b>			
LAN Ports	8 x Auto-negotiating 10/100/1000 BASE-T PoE ports		
SFP+ Ports	2 x SFP fixed ports		
Console Port Type	1 x RJ45/USB-C/Micro USB (Please specify)		
<b>Memory and Processor and Capacity</b>			
Memory	512MB or more		
Processor	800 MHz or more		
Packet buffer	1.5MB or more		
<b>Performance</b>			
Switching Capacity	20 Gbps or more		
Throughput	14 Mbps or more		
Latency	< 1.5 uSec or better at 1Gbps		
Routing Table Size	30 or more static routes		
Jumbo Frame Size	Supports up to 9216 bytes frame size		
MAC Address Table Size	4000 or more		
Supported VLANs	Up to 4094 VLANS		
PoE Power	120 W or more		
<b>Layer 2 features</b>			
	Support for 256 VLANs		
	IEEE 802.1Q VLAN encapsulation.		
	IEEE 802.3ad LACP supports up to 8 trunks, each with up to 8 ports per trunk		
	Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP), and IEEE 802.1s Multiple Spanning tree protocols		
<b>Layer 3 features</b>			
	IPv4 static routing		
	Shall support IGMP v1, v2 Snooping		
	IPv6 Host mode		
<b>QoS features</b>			
	Rate limiting on per-port ingress traffic limits		
	Shall support DSCP or IEEE 802.1p classification		
	Shall support SP and WRR queuing to be configured on individual switch ports		
<b>Security features</b>			
	IPv4 and MAC Access control list		

*Network Admin*

	802.1X for per port basis access control prior to permitting network access		
	Terminal Access Controller Access-Control System authentication		
	MAC-based client authentication		
	Shall support for DHCP Snooping		
	Shall support for denial-of-service attack		
	Storm protection with user defined threshold for unicast, broadcast and multicast		
	SSL and encrypted HTTP traffic		
<b>Other features</b>			
	SNMP For network management features		
	Switch port support for intelligent POE for automatically shutting down power to inactive ports		
	Dual image support for two software images for backup and upgrading process		
	Certification for Safety, emission and immunity		
	All the above features should be provided without any time base subscription or additional cost		
<b>Warranty</b>			
	Three-year manufacture authorized Warranty Manufacture authorization shall be attached as proof.		

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*(Network Admin)*

9.0 Video Management System			
Description / Required minimum specification		Compliance	Remarks
		(Yes / No)	
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
<b>Device Management</b>			
Features	Auto device discovery Add devices by IP address/domain name.		
	Cloud device management (add, edit, delete view status, group devices, remote config/restart)		
<b>Live View</b>			
Screen Layout	1 / 4 / 5 / 6 / 8 / 9 / 10 / 13 / 16 / 17 / 25 / 32 / 36 / 64 split view		
	1 / 4 / 9 / 16 / 25 default view and custom view		
	3 auxiliary screens		
PTZ Control	Pan, tilt, zoom, shortcut PTZ, focus, preset, patrol, 3D positioning, IR control, wiper control, heat control, fog removing.		
Features	Group display, sequence display, snapshot, digital zoom, scene, instant playback, local recording, default and custom view, custom stream, corridor mode, audio, two-way audio, and manual alarm.		
<b>Playback</b>			
Recording	Play back recording from NVR and SD card, in .ts, .mp4 format		
	16-ch (Async)/16-ch (Sync) playback		
	Display recording status on a calendar.		
Features	Local recording, scheduled recording, alarm triggered recording, search recording by time/recording type, recording download, snapshot, digital zoom, -16x~16x speed for forward and backward, audio, instant playback, play back local recordings, playback by image, playback by frame, playback in default/custom view.		
<b>Alarm, triggering and records</b>			
	Multiple alarm types, Live view, recording, email, preset, sound. Trigger other IPCs.  Real-time alarm info display and acknowledge. History alarm display/acknowledge/query		
<b>E-Map</b>			
Format	PNG/JPEG/BMP		
Map Alarm	Alarm flash, search and acknowledge.		
Features	Hot spot, hot zone, map zoom in/out, eagle eye.		
<b>User Management</b>			

*Network Admin*

User Management	Add, edit and delete user, query user		
User Level	Super administrator, administrator, operator		
User Info	User name, password, user level, permissions Different default permissions for different user levels Assignable permission(s) of each IPC		
<b>System Configuration</b>			
Audio & Video	Configure video processing mode, display mode, stream transmission protocol. Enable shortcut PTZ control, GPU mode. Configure snapshot mode, image save path. Configure format and save path for local and downloaded recordings.		
System	Set retention period for operation/alarm log and Import and export configuration		
Operation	Set alarm duration, alarm recording start and end time Enable auto time sync, set synchronization interval Configure SMTP server and email address used to send/receive emails		

*Nano*  
 (Network Admin)

<b>10.0 Video Management Hardware Specification</b>			
<b>Description / Required minimum specification</b>		<b>Compliance</b>	<b>Remarks</b>
		<b>(Yes / No)</b>	
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
Form Factor	Microtower		
<b>Specification &amp; Performance</b>			
Operating systems	Windows 10 (64-bit) or better		
Processor	Intel Core i5 or better 4.5GHz turbo or 3.1GHz base or higher 9 MB Cache and 6 cores		
Memory	4GB or higher; DDR4 memory up to 2666 MT/s data rate		
Memory	512MB or more		
Graphic	Intel UHD or better		
Storage	1 TB, 7.2 K rpm, SATA 6.0 Gb/s, 6.35 cm (2.5 in)		
Inputs	Keyboards and pointing devices		
Networking	Ethernet (RJ-45) Gigabit Network (GbE) connection		
Multimedia and ports	Line-in, Line-out, Microphone-in or Headphone-out port (front), 4x USB 3.1: (2) front, (2) rear 1x DisplayPort 1.2 (rear) 1x VGA (rear) Should support 3x SATA ports and expandable PCI Express 3.0 slots and 4x M.2 PCIe slots		
Security	Network BIOS Update, Power On Authentication, BIOS Password		
Power Supply	80+ Platinum and 230/240 VAC at 50/60 Hz		
Warranty	Three-year manufacture authorized Warranty Manufacture authorization shall be attached as proof.		

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*(Arbun Adnan)*

11.0 CCTV Monitoring Display		Compliance (Yes / No)	Remarks
Description / Required minimum specification			
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of Manufacture	Please Specify		
Form Factor	Surveillance monitor		
<b>Panel</b>			
Light source	LED backlight		
Panel size	43 inches		
Pixel pitch (mm)	0.2451*0.2451		
Resolution	3840*2160		
Brightness (cd/m2)	300		
Contrast ratio	1000:01:00		
Response time (ms)	14		
Color support	1.07B		
Display size (mm)	941.184*529.416		
Viewing angle (H/V)	178° /178°		
<b>Interface</b>			
Video input	2*HDMI, 2* DP		
Audio output	3.5mm headphone jack		
<b>Speaker</b>			
Speaker	2*5W		
<b>OSD</b>			
Language	English		
<b>VESA</b>			
Wall mount hole (mm)	200*200		
Wall mount screw	M6 (10mm deep thread)		
<b>General</b>			
Input voltage	AC 100~240V, 50/60Hz		
Typical power consumption (W)	≤90		
Standby power consumption (W)	≤0.5		
Accessories should provided	1*HDMI cable、1*Quick Guide、 1*Remote Control、1*Power Cable		

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(Network Admin)

12.0 UPS – 3kVA		
Description / Required minimum specification	Confirm	Remarks
	(Yes/No)	
Output power rating of 3kVA		
Output voltage 220V/240V +-5%, Frequency 50Hz +- 0.5Hz		
Input voltage range 180V-260V AC, 50Hz		
120 -minute backup time at full load, and 20-minute backup time at 50% load		
<b>Sealed type batteries with extra battery bank</b>		
Audible alarms to indicate battery operation		
RS-232 interface and matching cable for remote shutdown		
Three-year manufacture authorized Warranty		

13.0 Equipment Rack – 7U		
Description / Required minimum specification	Confirm	Remarks
	(Yes/No)	
Wall mount 7U		
Depth: 600mm minimum		
Width: EIA Standard 19" Rack Rails		
Power strip with at least 4 No's of 13A switched outlets 4-Way PDU UK Type		
4 x 230V 90CFM Fans tray		
Lockable and transparent front door, removable side panels		
Welded Structure, with Epoxy Powder Quoted Finish		
Warranty		

14.0 Equipment Rack – 35U		
Description / Required minimum specification	Confirm	Remarks
	(Yes/No)	
Wall mount 35U		
Depth: 640mm minimum		
Width: EIA Standard 19" Rack Rails		
Power strip with at least 4 No's of 13A switched outlets 4-Way PDU UK Type		
4 x 230V 90CFM Fans tray		
Lockable and transparent front door, removable side panels		
Welded Structure, with Epoxy Powder Quoted Finish		
Warranty		

*Adnan*  
*(Redmond Adnan)*

SPECIMEN FORM OF BID SECURITY

By this Bond we ..... (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at ..... (hereinafter called "the Surety") are held and firmly bound onto ..... (hereinafter called the Authority") in the sum of ..... for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents. Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of ..... and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

**Now the Conditions of this Bond are:**

- a. That it shall remain in full force and effect until the earliest of
  - i. (Date), being ( ) days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.
  - ii. In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- b. Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand from the Authority stating that
  - i. The Bidder has withdrawn his Tender during the validity of this Bond, or
  - ii. The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance or forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this( ) day of( ) 20 ( )

For and on behalf of the Bidder  
-----

For and on behalf of the Surety  
-----

Signed by -----

Signed by -----

In the capacity of -----

In the capacity of -----

and by -----

and by -----

In the capacity of -----

In the capacity of -----

Seal (where applicable)

Seal (where applicable)



**DELIVERY SCHEDULE**

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER)

TENDER NO :

ITEM : .....

QTY : .....

DURATION	QTY
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
<b>TOTAL</b>	

NAME OF THE BIDDER : .....

SIGNATURE OF BIDDER : .....

DATE : .....

COMPANY SEAL