

3. TENDER FORM

Provide & Supply of Surveillance Equipment & Walkthrough Gates

S.#	Specification	Location	Qty	Rate	Amount
1	<p>2 MP WDR fixed Dome Network Camera HIK Vision/Sony & Samsung or Equivalent</p> <ul style="list-style-type: none"> Image Sensor 1/2.8" Progressive Scan CMOS Min. Illumination 0.01Lux @ (F1.2, AGC ON), IR Shutter Speed 1/3 s to 1/10,000 s 2 MP camera, 30fps (1920×1080), 30fps (1280×960), 0 Lux with IR 0.028Lux @ (F2.0, AGC ON), IR Up to 30meter. Lens Mount M12, Lens 2.8mm, 3D DNR, WDR 120 dB, ICR, BLC, ROI, IP67, Impact Protection IK10. Video Compression H.264+(Plus), VBR = 32 Kbps ~ 16 Mbps Dual streams. Image Setting Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser Built-in Micro SDXC slot, up to 128 GB , Network Storage NAS, RJ45 100M Ethernet port On-board storage. ANR Detection Intrusion detection, Line crossing detection, Motion detection, Dynamic analysis, Region of interest feature, Alarm Trigger Tampering alarm ,Network disconnect, IP address conflict, Storage exception. TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, 	City campus Aman & FCS)	32	10,831	346,600

48



	<p>SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour</p> <ul style="list-style-type: none"> • Protocol Standard = CGI, ISAPI • Should support IVMS 4200 PC NVR • Audio and Alarm interface 1x alarm, 1x audio I/O. • Wireless Standards IEEE 802.11n (up to 150Mbps) :OFDM, Range upto 50 meters, Security 128-bit WPA-PSK/WPA2-PSK, WPS • Power Supply DC12V \pm 25%, PoE (802.3af Class 3) <p><i>Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.</i></p>				
2	<p>4 MP EXIR Bullet Network Camera</p> <p>HIK Vision/Sony & Samsung or Equivalent</p> <ul style="list-style-type: none"> • Image Sensor 1/3" Progressive Scan CMOS Min. Illumination 0.01Lux @(F1.2, AGC ON), IR Shutter Speed 1/3 s ~ 1/10,000 s Slow Shutter Support • Lens 6 mm, Lens Mount M12, ICR, WDR 120dB, IR 80 meters, BLC, 3D DNR, ROI, IP67 • 4 MP Camera - 2688 \times 1520, 20fps (2688\times1520), 30fps (1920\times1080), Video Compression H.264+(Plus), VBR = 32 Kbps - 16 Mbps. • Triggered by Alarm In Network, Network Storage NAS (Support NFS, SMB/CIFS) Detection Intrusion detection, Line crossing detection, Motion detection, Dynamic analysis, region of interest feature, Alarm 	Main campus boundary wall	28		16482-38 461506-50



	<p>Trigger Tampering alarm, Network disconnect, IP address conflict, Storage exception, Interface 1 RJ45 100M Ethernet interface</p> <ul style="list-style-type: none"> • TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour • Anti-Flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access • Should support IVMS 4200 PC NVR • Protocol Standard = CGI, ISAPI • Power Supply 12V DC\pm25%, PoE (802.3af Class3) <p><i>Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.</i></p>				
3	<p>3 MP WDR Bullet Network Camera HIK Vision/Sony & Samsung or Equivalent</p> <ul style="list-style-type: none"> • Image Sensor 1/3" Progressive Scan CMOS Min. Illumination 0.01Lux @(F1.2, AGC ON), IR Shutter Speed 1/3 s ~ 1/10,000 s Slow Shutter Support • 4mm@ F2.0, 2048 \times 1536, Angle of view: 70°(4mm), 43.3°(6mm), 20.6°(12mm), IR 30 meters or above • 3 MP Camera - 2688 \times 1520, 20fps (2688\times1520), 30fps (1920\times1080), Video Compression H.264+(Plus), VBR = 32 Kbps – 16 Mbps. • Triggered by Alarm In Network, 	Boys Hostel, girls hostel VFR	27	11459-18	309397-73



	<p>Network Storage NAS (Support NFS,SMB/CIFS) Detection Intrusion detection, Line crossing detection, Motion detection, Dynamic analysis, region of interest feature, Alarm Trigger Tampering alarm, Network disconnect, IP address conflict, Storage exception, Interface 1 RJ45 100M Ethernet interface</p> <ul style="list-style-type: none"> • TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour • Anti-Flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access • Wireless Standards IEEE 802.11n(up to 150Mbps) :OFDM, Range up to 50 meters, • Built-in Micro SDXC slot, up to 128 GB , Network Storage NAS, RJ45 100M Ethernet port On-board storage. • Should support IVMS 4200 PC NVR • Protocol Standard = CGI, ISAPI • Power Supply 12V DC±25%, PoE (802.3af Class3) <p><i>Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.</i></p>				
4	<p>NVR 32 Channel HIK Vision/Sony & Samsung or Equivalent</p> <ul style="list-style-type: none"> • Up to 32 IP cameras, Recording at up to 12 MP resolution (4K-NVR) • Dual-OS design, ANR 	Main Campus City Campus	4	98791-88	395167-50



	<p>technology to enhance the storage reliability when the network is Disconnected</p> <ul style="list-style-type: none"> • HDD hot swap with RAID0, RAID1, RAID5 and RAID10 storage scheme configurable. • 4K Camera Inputs H.265, H.264-Plus(+) video formats, third-party network cameras, recording, playing back, and backing up of VCA alarms can be realized <input type="checkbox"/> VCA detection alarm is supported • HDMI1 Video output at up to 4K (3840 × 2160) resolution, Support ezviz cloud • 8 SATA interfaces (6TB HDD Support), eSATA interface, 1000M two network interfaces, two VGA and two HDMI, USB 3.0 ,RS-232, AUDIO/Line: RCA, Controller Port, Alarm In/Alarm Out . • USB interface Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0 Alarm in/out 16/4 • Outgoing bandwidth 256 Mbps, or 200 Mbps (when RAID is enabled) , Video/Audio output • Remote connection:128 , 19-inch rack-mounted 2U chassis. 				
5	<p>NVR 16 Channel HIK Vision/Sony & Samsung or Equivalent</p> <ul style="list-style-type: none"> • Dual-OS design , Recording at up to 12 MP resolution (4K-NVR)ANR technology to enhance the storage reliability, 4K Camera Inputs H.265, H.264-Plus(+) video formats • Connectable to the third-party network cameras, Up to 32 IP cameras can be connected <input type="checkbox"/> • Supports live view, storage, and playback of the connected camera at up to 12 MP 	Girls Hostel, VFR	1	51016-88	51016-88



	<p>resolution HD Output <input type="checkbox"/></p> <ul style="list-style-type: none"> • HDMI and VGA outputs provided. HDMI Video output at up to 4K (3840 × 2160) resolution HD Storage <input type="checkbox"/> • Up to 4 SATA interfaces(6TB HDD Support) , VCA detection alarm is supported. • Centralized management of IP cameras, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc. • Synchronous playback 16-ch . • Instant playback for assigned channel during multi-channel display mode <input type="checkbox"/> • Smart search for the selected area in the video; and smart playback to improve the playback efficiency <input type="checkbox"/> • Supports HDD quota and group modes; different capacity can be assigned to different channels. • Physical Interfaces : 2 self-adaptive 1000M Ethernet network ports, Two-way audio 1-ch, RCA (2.0 Vp-p, 1kΩ) , USB interface Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0, 1 RS-485 (half-duplex), 1 RS-232 				
6	<p>4 TB Surveillance grade Hard disk</p> <ul style="list-style-type: none"> • Formatted capacity: 4 TB • Form factor: 3.5-inch • Advanced Format (AF): Yes • RoHS compliant: Yes • Data transfer rate (max) • Buffer to host: 6 Gb/s • Host to/from drive (sustained): 150 MB/s • Cache (MB): 64 • Rotational speed (RPM): 	2 per NVR (2x5)	10	189,00	189000



<ul style="list-style-type: none"> • Load/unload cycles: 300,000 • Non-recoverable read errors per bits read: <1 in 10^{14} • Limited warranty (years)⁵ :3 • Average power requirements (W) • Read/Write :5.1 • Idle : 4.5 • Standby and Sleep: 0.4 • Temperature (°C, on the base casting) <ul style="list-style-type: none"> ○ Operating :0 to 65 ○ Non-operating: -40 to 70 • Shock (Gs) • Operating (2 ms, read/write) :30 • Operating (2 ms, read): 65 • Non-operating (2 ms): 250 • Acoustics (dBA)⁷ • Idle : 25 • Seek (average): 26 • Height (in./mm, max): 1.028/26.1 • Length (in./mm, max): 5.787/147 • Width (in./mm, $\pm .01$ in.):4/101.6 • Weight (lb./kg, $\pm 10\%$):1.50/0.68 • Reduces video frame loss with surveillance-class storage. • Specifically tuned for surveillance security systems. • Caching algorithms are tuned for write-intensive, low bit rate, high stream count applications that are typical of surveillance applications. • Priority change for write allocations and preemptive caching policies. • TLER & ATA streaming 				
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	support. • Supports up to eight drives.				
7	SD card 32 GB (Class 10) Kingston or Equivalent <ul style="list-style-type: none"> • Capacities¹: 32 GB. Must work with HIKVISION IP camera • Speed²: Class 10 or above (Data writing speed 10MB/s or higher) • Dimensions: 11mm x 15mm x 1mm • Operating temperature: -25° C to 85° C • Storage temperature: -40° C to 85° C • Voltage: 3.3v • Compliant: with the SD Card Association specification • Compatible: with micro SDHC/SDXC host devices • Reliable: lifetime warranty⁷ 	With Support in Cameras	55	1080	59400
8	Walk Through Gates (Double sided / multi zone) Brand : CEIA HIPE (plus) /Sony & Samsung or Equivalent <ul style="list-style-type: none"> • 60 Pinpoint Zones with high resolution and precision • Met Identity for identification of threat composition • Double display. • High sensitivity, Capable to detect from guns, 9mm Bullets to ½ cutter blade • Green and red metering signal, indicate the quantity of the metal • Standard Alarms • Intermittent / Different Alarm • Immediate selection of international Security standards. NILECJ, 3Gun TST, 3GUN TSE, GA, GD, NIJ-LO. • Accurate detection of magnetic, non -magnetic and mixed alloy – metal weapons 	Main campus (Gate 1, Student center, Auditorium) City Campus (Aman Tower gate, Main gate)	5	369350	1846756



<ul style="list-style-type: none"> • 60 Persons per minute. • Chip card system for fast, simple & secure parameters changes • High precision both direction counter (in & Out Separate) with automatic rescreening compensation • RS-232 serial connection to PC or computer network. • Harmless to wearers of pacemakers, defibrillators or other vital support systems, pregnant women and magnetic storage media (floppy disk, audio cassettes, video cassettes and similar) • No need for initial or periodic calibration 				
Total				3658839.40
17% GST				622002.70
Total Amount				4280842.10

Total Amount Rupees (in words) Four Million Two hundred eighty thousand eight hundred forty two & one ten.

General Instructions:-

- All the items should be available in ready stock and displayed in front of the end user.
- No un marked items acceptable
- No Neutral version acceptable.
- Authorized dealer of manufacturer.
- Supplier should have office located in Karachi.
- Items should have local warranty.


Stamp & Signature

