3.

TENDER FORM

Provide & Supply of Surveillance Equipment & Walkthrough Gates

S.#	Specification	Location	Qty	Rate	Amount
1	**2 MP WDR fixed Dome Network Camera** HIK Vision/Sony & Samsung or Equivalent • 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	Not	Quoted.

SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
- 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 ± 25%, PoE (802.3af Class 3)

Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.

4 MP EXIR Bullet Network Camera HIK Vision/Sony & Samsung or Equivalent - 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 × 1520, 20fps (2688×1520), 30fps (1920×1080), 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		Not Quoted.

	Trigger Tampering alarm, Network disconnect, IP address conflict, Storage exception, Interface 1 RJ45 100M Ethernet interface • 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±25%, PoE (802.3af Class3) *Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.*				
3	**3 MP WDR Bullet Network Camera** HIK Vision/Sony & Samsung or Equivalent • 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 × 1536, Angle of view: 70°(4mm), 43.3°(6mm), 20.6°(12mm), IR 30 meters or above • 3 MP Camera - 2688 × 1520, 20fps (2688×1520), 30fps (1920×1080), Video Compression H.264+(Plus),VBR = 32 Kbps – 16 Mbps. • Triggered by Alarm In Network,	Boys Hostel, girls hostel VFR	27	*Not Quoted.*	

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 • 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) *Camera should be provided in proper box packing with company's monogram, AC adapter, water proof connector seal, installation tool, CD and screws.*				
NVR 32 Channel HIK Vision/Sony & Samsung or Equivalent • Up to 32 IP cameras, Recording at **up to 12 MP resolution** (4K-NVR) • Dual-OS design, ANR	Main Campus City Campus	4	*Not Quoted.*	

technology to enhance the storage reliability when the network is Disconnected • 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 □ 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.				
NVR 16 Channel HIK Vision/Sony & Samsung or Equivalent • 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 □ • Supports live view, storage, and playback of the connected camera at up to 12 MP	Girls Hostel, VFR	1	Not Quoted.	

	resolution HD Output ☐ • HDMI and VGA outputs provided. HDMI Video output at up to 4K (3840 × 2160) resolution HD Storage ☐ • 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 ☐ • Smart search for the selected area in the video; and smart playback to improve the playback efficiency ☐ • 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	**4 TB Surveillance grade Hard disk** • 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	*Not Quoted.*

- 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)
  - 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, ± .01 in.):4/101.6
- Weight (lb./kg, ± 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

	support. • Supports up to eight drives.				
7	**SD card 32 GB (Class 10)** Kingston or Equivalent • **Capacities**[1]: 32 GB. Must work with HIKVISION IP camera • **Speed**[2]: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 warranty[7]	With Support in Cameras	55	*Not Quoted.*	
6	**Walk Through Gates (Double sided / multi zone)** Brand : CEIA HIPE (plus) /Sony & Samsung or Equivalent • **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, NIIJ-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	*365,000/= + GST*	*2,135,250/= Inclusive GST.*

• 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			•	
17% GST				
Total Amount				

Total Amount Rupees (in words) <u>TWO MILLION ONE HUNDRED</u>

<u>THIRTY FIVE THOUSAND TWO HUNDERED FIFTY ONLY</u>

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