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	9010/=	288320/=

	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.*				
2	**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	13711/=	383908/=

	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	9794/=	264438/=

	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.*				
4	**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	75,607/-	302428/-

	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.				
5	**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	29903	29903

	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	16453/=	164530/=

- 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					

#	Description		Qty	Unit Price	Total
	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	1959/=	107745/=
8	**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	400,000/=	2,000,000/=

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• **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				3541272/=
17% GST				602016/=
Total Amount				4143288/=

Total Amount Rupees (in words) Four Million, One Hundred forty-three thousand, Two Hundred eighty eight.

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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