



IBA Institute of
Business Administration
Karachi

Leadership and Ideas for Tomorrow

PURCHASE ORDER

To : M/s AR-Raheem Security Services (Pvt) Ltd
Order No : IBA-MC/PD/EM/206/0111/2016-17
Date of Issue : January 11, 2017
Date of Delivery : February 27, 2017
Place of Delivery : IBA, Main Campus
Total Amount : **Rs.1,323,385.83 (Including GST)**
(Rupees One Million Three Hundred Twenty Three Thousand Three Hundred Eighty Five & Paisa Eighty Three Only)

S. #	Description	Qty	Brand	Rate (Rs.)	Amount (Rs.)
1	Cameras 2 Mega Pixel WDR Fized Dome Network Camera <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 s2 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 browserBuilt-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.	32 units	HIK Vision	Rs9,010.00	Rs288,320.00

	<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 • 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>Cameras 4 Mega Pixel EXIR Bullet Network Camera</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 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, 	28 units	HIK Vision	Rs13,711.00	Rs383,908.00

	<p>QoS, IPv6, Bonjour</p> <ul style="list-style-type: none"> • 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) <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>Cameras 3 Mega Pixel WDR Bullet Network Camera</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 × 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, 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, 	27 units	HIK Vision	Rs9,794.00	Rs264,438.00

	Anonymous access				
	<ul style="list-style-type: none"> • 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 16 Channel</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 l • Supports live view, storage, and playback of the connected camera at up to 12 MP resolution HD Output l • HDMI and VGA outputs provided. HDMI Video output at up to 4K (3840 × 2160) resolution HD Storage l • 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 l • Smart search for the selected area in the video; and smart playback to improve the playback efficiency l 	1 unit	HIK Vision	Rs29,903.00	Rs29,903.00

	<ul style="list-style-type: none"> • 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 				
5	<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): • Load/unload cycles: 300,000 • Non-recoverable read errors per bits read: <1 in 10¹⁴ • 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, ± .01 in.):4/101.6 • Weight (lb./kg, ± 10%):1.50/0.68 • Reduces video frame loss with surveillance-class storage. 	10 units	Seagate	Rs16,453.00	Rs164,530.00

<ul style="list-style-type: none"> 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. 				
2 per NVR (2x5)				
Total				Rs1,131,099.00
17% GST				Rs192,286.83
Total Amount				Rs1,323,385.83

Terms & Conditions:

1. Material of this order is subject to final inspection at the time of delivery.
2. We reserve the right to cancel any or all the above items if material is not in accordance with our specification or if the delivery is delayed.
3. Payment will be made through crossed cheque after the receipt of the bill and delivery of the above item.
4. General Sales Tax will be paid on applicable items only.
5. Penalty at the rate of 2% per month on actual will be imposed on delayed delivery.
6. The rate / item cost is final and no change what so ever will be accepted.
7. Government tax(es), levi(es) and charge(s) will be charged at actual as per SRO.
8. Competent Authority reserves the right to change / alter / remove any item or article or reduce / enhance quantity without assigning any reason.
9. Invoice / bill, Purchase Order & Delivery Challan should be submitted to Finance Department.
10. Advance Payment subject to Bank Guarantee
11. All Government taxes (including Income tax and stamp duty), levies and charges will be charged as per applicable rates / denomination of Purchase Order.
12. Stamp duty 0.35% for Goods against total value of Purchase Order will be levied accordingly.
13. The terms and conditions of the AGREEMENT have been read over to the parties which they admit to be correct and abide by the same.
14. All terms and conditions of tender vide # ME/01/16-17 will be the integral part of this agreement and can't be revoked.
15. One year maintenance & replacement warranty required without any extra payment in the name of Institute of Business Administration, Karachi (IBA, Karachi).


Manager Purchase & Stores


Registrar

Jan 11/17