HIGH COURT OF SINDH

Comparison Sheet of Supply & Installation of CCTV Camers for The Residences of The Hon'ble Judges

	Requirements of Sindh High Court		SI GLOBAL		Reliable Security Systems Pvt Ltd	
			Products offered by bidder	Compliance (Yes/ No)		Compliance
S. NO	MAKE & MODEL	DESCRIPTION	Make & Model and Descriptions			(Yes/ No)
1	Network IR Bullet Camera (Supply & Installation)	4 Megapixel Network IR Bullet Camera Max. 4M resolution, Built-in 3.6mm fixed lens, Max. 20fps@4M resolutions, Max. 30fps@2M resolutions, H.265, H.264, MJPEG codec supported, Multiple streaming, Motion detection Tampering, Defocus detection, Micro SD (128GB) memory slot PoE / 12V DC, IR viewable length 25m, IP66, IK10, LDC support (Lens Distortion Correction)	Brand: HIK Vision China Model: DS-2CD1043G0-I/F 4 MP IR Fixed Bullet Network Camera 1/3" progressive scan CMOS, 2560 x 1440 @20fps, 2.8 mm/4 mm fixed lens , H.265 +, H.265, H.264+, H.264, Triple stream , 120 dB WDR (wide dynamic range), 3D DNR (digital noise reduction), PoE (power over ethernet) upto 40 m IR range, IP67, IK10	Yes	DAHUA IPC-HFW4431T-ASE 1/3" 4Megapixel progressive scan CMOS > H.265&H.264 triple-stream encoding > 25/30fps@4M(2688×1520) > Smart Detection supported > WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC > Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS > 3.6mm fixed lens (6mm, 8mm, 12mm optional) > Max. IR LEDs Length 80m > Micro SD memory, IP67, IK10, PoE	Yes
2	Network HD IR Bullet Camera (Supply & Installation)	4 Megapixel Full HD Network IR Bullet Camera Max. 4M resolution 2.8 ~ 12mm (4.3x) motorized varifocal lens Max. 20fps@4M resolutions, Max. 30fps@2M resolutions H.265, H.264, MJPEG codec supported, Multiple streaming Motion detection, Tampering, Defocus detection micro SD (128GB) memory slot, PoE / 12V DC IR viewable length 30m IP66, IK10 LDC support (Lens Distortion Correction)	Brand: HIK Vision China Model: DS-2CD1643G0-I/Z resolution: 4 MP - 2688 x 1520, 2.8-12 mm/ 98° - 28° lens, H.265+/H.265/H.264+/H.264/MJPEG video compression, even IR lighting due to EXIR 2.0 technology: IR range up to 30 m, mechanically switching IR filter, hardware WDR 120 dB video enhancement functions: 3D-DNR, WDR, BLC, support for microSD/microSDHC/microSDXC cards up to 128 GB, region of interest (ROI), access via Hik-Connect, ANR function, IP67 rating, IK10 power supply: 12 VDC or PoE (802.3af).	Yes	DAHUA IPC-HFW2431T-ZS Supported Operating Systems:Windows 10,Windows Vista,Windows 8,Windows 7,Mac os,Windows XPTF Card:128G TF CardHigh Definition:4.0, Megapixelsis_customized:YesTechnology:InfraredNetwork Interface:RJ-45 10/100Mb Ethernet SlotIR Distance(m):Distance up to 60mInstallation:SideDimensions (L x W x D)(mm):244.1mm*79mm*75.9mmSpecial Features:Waterproof / WeatherproofPower Supply:With POEMinimum Illumination(Lux): 0.03Lux/F1.4, 0.3Lux/F1.4Sensor:CMOSType:IP CameraModel Number:IPC-HFW2431T-ZS/VFSWall Bracket:SideSupported Mobile Systems:Android,iosPower Consumption(W):<14W(-ZS), <12W(-VFS)Video Compression Format:MJPEG,H.264Sensor Brand:SonyPower Supply(V):DC12V,PoE+ (IEEE 802.3at)(Class 4)Style:Bullet CameraStorage:NoneBrand Name:PIZEColor:WHITEConnectivity:IP/Network WiredLens (mm):2.7~13.5mm IP67, IK10	Yes

MEMBER INSPECTION TEAM-II
HIGH COURT OF SINDH
KARACHI

Member Inspection Team-II

Kamran Ahmed Hamid.
Director General (F&A)
High Court of Sindh

DG (Finance and Accounts)

(NADEEM IFTIKHAR)
Accounts Officer, AG Sindh

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			Products offered by bidder	Complian ce		Compliance
S. NO	MAKE & MODEL	DESCRIPTION	Make & Model and Descriptions	(Yes/ No)		(Yes/ No)
3	Network IR Dome Cameras (Supply & Installation)	4-Megapixel Network IR Dome Camera Max. 4M resolution 2.8 ~ 12mm (4.3x) motorized varifocal lens Max. 20fps@4M, Max.30fps@2M all resolutions H.265, H.264, MJPEG codec supported Day & Night (ICR), WDR (120dB) Motion detection, Tampering, Defocus detection micro SD (128GB) memory slot, PoE / 12V DC IR viewable length 20m	Brand: HIK Vision Model: DS-2CD1743G0-IZ 4Mp 1/3" progressive scan CMOS 2560 x 1440 @20fps 2.8 mm to 12mm manual/motorized (with -Z) vari-focal lens H.265 +, H.265, H.264+, H.264 dual stream 120 dB WDR (wide dynamic range) 3D DNR (digital noise reduction) PoE (power over ethernet) upto 30 m IR range IP67	Yes	DAHUA IPC-T2B40-ZS 1/3" 4Megapixel progressive CMOS > H.265+ & H.265 dual-stream encoding > 20fps@4M(2560×1440) &25/30fps@3M(2304×1296) > DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC > Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS > 2.8~12mm varifocal lens > Max IR LEDs Length 40m > Micro SD card memory, IP67, PoE	Yes
4	Network PTZ IR Camera (Supply & Installation)	2 Megapixel Full HD 30x (or higher) Network IR PTZ Dome Camera Max. 2M (1920 x 1080) resolution 16 : 9 Full HD (1080p) resolution support 4.4 ~ 140.8mm (32x) IR corrected optical zoom, 16x digital zoom H.264, MJPEG dual codec, Multiple streaming Day & Night (ICR), WDR (120dB) Auto tracking, Intelligent video analytics SD/SDHC/SDXC memory slot, Bi-directional audio support IP66, IK10, IR LED (2)	Brand: HIK Vision Model: DS-2DE72321W-AZ(B) 2MP 32X Network IR PTZ Camera 1/2.8" progressive scan CMOS upto 1920 x 1080@60fps resolution Min.illumination color 0.005 Lux @(F1.6, AGC ON) B/W 0.001 Lux @(F1.6,AGC ON) 0 Lux with IR 32 x optical zoom, 16 x digital zoom WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional Exposure, Regional Focus upto 150 m IR distance 24 VAC & Hi-PoE Support H.265+/H.265 video compression, IP67, IK10	Yes	DAHUA SD6CE45U-HNI Chip Inch Size 1/3, Colour Type Colour / Monochrome, Resolution TVL 2MP Megapixel Yes, Dome Type PTZ, Sensitivity lux 0 ~ 0.005, Indoor/Outdoor Indoor/Outdoor, Digital (DSP) Yes, Electrical Specifications Voltage: 24 V AC / PoE, Power Consumption: 17W, Focal length 3.95 ~ 177.7 mm, Compression H.265+/H.265/H.264+/H.264, Back Light Compensation Yes, Auto Gain Control Yes, White Balance Yes, Electronic Shutter range 1/1s ~ 1/30,000s, S/ N (Signal/ Noise) Ratio dB > 55 , Built-in IR LED Yes Zoom Ratio x45, Network Properties Interface: RJ-45 (10Base-T/100Base-TX), Network Protocols: IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP,ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Image Frame Rate: 50/60 fps, Physical Specifications Dimensions mm: 209 x 337.4, Weight g: 5800, Environmental Specifications Operating Temp oC: -40 ~ +70 C (-40 ~ +158 F), Operating Humidity %: < 95, Protection: IP67, IK10 System Requirments Web Browser: IE, Chrome, Firefox, Safari, Additional info , Powerful 45x optical zoom, Starlight technology, Max. 50/60fps@1080P Auto-tracking and IVS, IR distance up to 250m, Support PoE+	Yes

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			Products offered by bidder	Compliance (Yes/ No)		Compliance
S. NO	MAKE & MODEL	DESCRIPTION	Make & Model and Descriptions			(Yes/ No)
5	16-Channel Network Video Recorder (Supply & Installation)	16-CH Network Video Recorder with 6TB HDD Up to 16CH 12megapixel supported H.265, H.264, MJPEG codec supported 180Mbps network camera recording Plug & play by 16 PoE/PoE+ ports Max. 4HDDs, e-SATA storage supported HDMI / VGA local monitor	Brand: HIK Vision, Model: DS-7716NI-14/169/UHK, Video/Audio Input,Two-way audio input: 1-ch, RCA (2.0 Vp-p, 1kΩ) IP video input: 16-ch, Network Incoming bandwidth: 160Mbps Outgoing bandwidth: 80Mbps Video/Audio Output, HDMI Output: 1-ch, resolution:4K (3840 × 2160)/30Hz,1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 ×1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz. Recording Resolution: 8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF Audio Output: 1-ch, RCA (Linear, 1kΩ) VGA Output: 1-ch, resolution: 1920*1080P/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz Decoding, Decoding format: H.265/H.265+/H.264/H.264+/MPEG4 Capability: 1-ch @ 8 MP / 4-ch @ 1080p Live view / Playback: 8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF, Hard Disk Interface Type: 4 SATA interfaces Capacity: Up to 6TB capacity for each HDD External Interface, Network Interface: 1RJ-45 10/100/1000Mbps self-adaptive Ethernet interface, Serial Interface: RS-232; RS-485; POE Supported Standard: AF and AT, Interface: 8 independent 10 /100 Mbps PoE Ethernet interfaces Max. Power: 80W General Power Supply: 100 to 240 VAC, Power: ≤ 300 W Consumption(without hard disk and POE): ≤ 15 W Working Temperature:-10 oC ~ +55 oC (+14 oF~ + 131 oF), Working Humidity: 10 % ~ 90 % Dimensions: 440 × 393 × 75 mm (17.3" × 15.5" × 3.0") Weight(without HDD): ≤ 5 kg (11 lb)	Yes	DAHUA NVR5416-16P-4kS2E 16/32/64Channel 1.5U 16PoE 4K&H.265 Pro Network Video Recorder > Smart H.265+/H.265/Smart H.264+/H.264/MJPEG > Max 320Mbps Incoming Bandwidth > Up to 12MP Resolution for Preview and Playback > 2HDMI/2VGA simultaneous video output > 1-8 PoE Ports Support 800m ePoE & EoC	Yes

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	Requirements of Sindh High Court		Si GLOBAL		Reliable Security Systems Pvt Ltd	
			Products offered by bidder	Compliance (Yes/ No)		Compliance
S. NO	MAKE & MODEL	DESCRIPTION	Make & Model and Descriptions	(Yes/ No)		(Yes/ No)
6	08-Channel Network Video Recorder (Supply & Installation)	08-CH Network Video Recorder with 4 TB HDD Up to 8CH, 8megapixel camera supported H.265, H.264, MJPEG codec support, WiseStream support 100Mbps network camera recording Plug & play by 8 PoE/PoE÷ ports. Max. 2HDDs supported HDMI / VGA local monitor ARB supported P2P service(QR code connect) support320.0	Brand: HIK Vision Model: DS-7608NI-K2/8P/UHK, Video/Audio Input Two-way audio input: , 1-ch, RCA (2.0 Vp-p, 1kΩ) IP video input: , 8-ch Network, Incoming bandwidth: 80Mbps, Outgoing bandwidth: 160Mbps, Video/Audio Output HDMI Output:, 1-ch, resolution: 4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920*1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz Recording Resolution: MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF VGA Output: 1-ch, resolution: 1920*1080P/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz, Decoding, Capability: , 8-ch@1080P, Live view / Playback: 8MP/6MP/5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF, Hard Disk, SATA: 2 SATA interfaces for 2 HDDs, Capacity:Up to 6TB capacity for each HDD, External Interface USB Interface:, 2, USB2.0, Alarm In:, 4-ch, Alarm Out: 1-ch, POE, Interface: , 8 independent 10 /100 Mbps PoE Ethernet interfaces, General, Power Supply:, 100 to 200 VAC Consumption(without hard disk and POE): ≤ 15 W, Working Temperature: -10 oC ~ +55 oC (+14 oF~ + 131 oF) Working Humidity: 10 % ~ 90 %, Chassis:, 385 mm chassis Dimensions: 385 × 315× 52 mm (15.2" 12.4" 2.0") Weight(without HDD):, ≤ 3 kg (6.6 lb)	Yes	DAHUA NVR-4208-8P-4KS2 8 Channel 1U 8PoE 4K&H.265 Lite Network Video Recorder > Smart H.265+/H.265/Smart H.264+/H.264 > Max 200Mbps Incoming Bandwidth > Up to 8MP Resolution for Preview and Playback > Up to 2ch@4K/8ch@1080P decoding > HDMI/VGA simultaneous video output > Support IPC UPnP, 8PoE ports	Yes
7	PTZ Network Controller (Supply & Installation)	Network Controller Superior system compatibility 3D joystick control USB Interface / Network Interface	Brand: HIK Vision Model:PTZ Network Controller DS-1200KI System, LCD screen:128 x 64 pixel screen, Joystick: 4-axis joystick Control mode: Network, RS-232, RS-422, RS-485, External Interfaces, Network interface:1; 10 M/100 Mbps self-adaptive Ethernet interface, Serial interface:1 RS-232, 1 RS-422, 1 RS-485 USB interface: 1 × USB 2.0, Power supply:12 VDC, General Consumption: ≤ 4.5 W Working temperature: -10 to +55° C (14 to 131° F)	Yes	DAHUA NKB1000 Dahua DH-NKB1000 Features General Keyboard: Electromechanical Joystick: 3-axis, vector-solving, with twisting, return to-center head Keyboard Connector: RJ-45,RS232,RS485,RS422,USB Keyboard Communication: Direct Mode, Network Mode Direct Mode Interface: RS232/RS485 DVR Protocol: DH2	Yes

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S NO	MAKE & MODEL	DESCRIPTION	Products offered by bidder Make & Model and Descriptions	Complian ce (Yes/ No)		Compliance (Yes/ No)
			Working humidity: 10% to 90% Dimensions (W × D × H): 435 × 193 × 110 mm (17.1 × 7.6 × 4.3 inch) Weight: ≤ 1 kg (2.2 lb)		Dome Protocol: DH-SD/PELCO-D/PELCO-P/PELCO-D1/PELCO-P1..... Network Mode Interface: RJ45, DVR/Network Dome, IP Address/Port/Protocol N/A N/A Display: LCD, 75.2mm x 33.85mm Environmental Power Supply: Power adapter, input 100V~240V 50Hz / 60Hz,output DC12V/1000mA Power Consumption: 5W Working Temperature: -10℃~+55℃ Working Humidity: 10%~90% Atmosphere Pressure: 86kpa~106kpa Dimension: 330mmx160(140)mmx37.5(21)mm (W×D×H) (height: 100mm including joystick) Weight: 2.5KG	
8	Iron Pole (Supply & Installation)	20' (feet) Iron Pole with foundation etc.	LOCAL	Yes	LOCAL	Yes
9	Special Brackets (Supply & Installation)	Special Iron Brackets for Cameras (4' feet L-Shape)	LOCAL	Yes	LOCAL	Yes
10	LCD / LED SUplly and Installation	18.5" / 19" Inch Color LED / LCD for alternate display at Police / Guard Room	HIKVISION DS-D5019QE Display Display Type: LED-Backlit TFT LCD Screen Size: 18.5"	Yes	DELL/HP	Yes
11	LCD / LED Suplly and Installation	40" Inch Color LED	HIKVISION DS-D5043QE Backlight: D-LED Backlight Screen Size: 42.5 inch	Yes	TCL	Yes
12	UPS Supply and installation	1-KVA UPS (Inclusive of 3 years warranty for batteries)	PowerEdge PAELISB-1200-AV	Yes	LOCAL	Yes
13	Stabilizer Supply and installation	1-KVA Servomotor Stabilizer	POWEREdge SVR-1000-VA	Yes	STABIMATIC	Yes

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S. NO	MAKE & MODEL	DESCRIPTION	Products offered by bidder Make & Model and Descriptions	Compliance (Yes/ No)		Compliance (Yes/ No)
14	HDMI Cable (Supply and installa	30' HDMI Cable	Local	Yes	IMPORTED	Yes
15	Network Switches	a) 16 ports PoE N/W Switch b) 8 ports PoE N/W Switch	**a) Hikvision-DS-3EO318P-E** Ports Network Ports: 18 PoE Port: 16, 10/100Mbps RJ45 ports Uplink Port: 2, 1000M Combo Port Standard **B) hikvision-DS-3EO109P-E(B)** Ports Network Ports: 9 PoE Port: 8, 10/100Mbps RJ45 ports Uplink Port: 1, 100M Ethernet Port Standard	Yes	PFS-4218-ET-190 Network ports 16 layer 2 management PoE switch PoE budget 190W Support PoE, PoE+, Hi-PoE Orange port support Hi-PoE can be used with the PoE extender (PFT 1300) 250 meters long distance PoE transmission PoE managementt, PoE setting/ Event Statistics/ Green PoE PFS3010-8ET96 Network Ports 8 Layer two commercial switch supports IEEE802.3, IEEE802.3u, IEEE802.3x standards MAC auto learning, aging, MAC address capacity is 2K Supports MDI/MDIX self adaptation	Yes
16	Converter (VGA to AV) (Supply & Installation)	Converter (VGA to AV) for 2nd output at Police / Guard Room	Local	Yes	IMPORTED	Yes
17	U-Rack (Supply & Installation)	4 U-Rack with Cooling Fan, Lock & PDU.	Local	Yes	LOCAL	Yes
18	Cabling / Fitting	Material included Per Running Feet Cat-6 Cable 3M or Schneider, Power Cable Wire (3/29), Pakistan Cable Jeddah / Pak Arab PVC Pipe with Fittings & Adamjee Channel Patti or better. Note: Initially rates may be quoted on 43,500 RFT (as benchmark). Later the payment will be made on actual running feet.	Local	Yes	3M Pakistan Cables	Yes
19	Digging	Hard Digging & Backfilling.	Local	Yes	SERVICES	Yes
20	Warranty, Servicing & Maintenance	NOTE: Warranty for all the above mentioned items must be 3 Years including power-supplies, adaptors, UPS-batteries, Iron-pole etc.	Price Included	Yes	SERVICES	Yes

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