### **SURVEY OF PAKISTAN**

#### **TECHNICAL EVALUATION OF CCTV CAMERA SYSTEMS**

CCTV System including 09x IP Cameras, 1xPtz Dome Camera and 16 Channel NVR with all req Accessories

<b>Sr.</b> #	Items	Specifications	Qty	M/s egs	M/s	Vital International Ltd
1	NETWORK IP CAMERAS	6.0 mega pixel WDR (wide dynamic range)  Resolution: 3072 x 2048, Max 25fps  POE (power over Ethernet) Network camera HLC (Highlight Compensation) & BLC (Backlight Compensation) supported Water proof, Privacy mask, Motion Detection, Digital Defog Face detection, People counting, Tempering Alarm Day/night functionality 1/3" progressive scan, CMOS Smart IR up to 30M IR distance 2D/3D DNR (Digital noise reduction) Optical Glass Window, IR anti-reflection window  Ultra 265, MJPEG, ONVIF Conformance Multiple Stream IP 67 or IP 68 Dustproof	09	DAUHA (DH-HFW2831TPASS) Bullet 8 MP Fixed-Focol Camera  8MP (3840 x 2160) @ 15 fps, and supports 2688x1520 (2688 x 1520) @ 25/30 fps  POE  HLC/BLC  Water proof, Privacy mask, Motion Detection, Digital Defog Face detection, People counting, Tempering Alarm  Day/night functionality 1/2.7" 8Megapixel progressive CMOS Smart IR up to 80M IR distance 2D/3D DNR (Digital noise reduction)  Optical Glass Window, IR anti-reflection window  Ultra 265, MJPEG, ONVIF Conformance Multiple Stream  IP 67	Wiz Se Model:	A Tech 8MP IR Fixed-focal Bullet nse Network Camera IPC-HFW2841S-S 8-MP 1/2.7" CMOS image sensor, low luminance, and high-definition image Outputs max. 8 MP (3840 x 2160) @ 20 fps, and supports 2688 x 1520 (2688 x 1520) @25/30 fps H.265 codec, high compression rate, ultra-low bit rate Built-in IR LED, and the max. illumination distance is 30m ROI, SMART H. 264+/H.265+, flexible coding, applicable to various bandwidth and storage environments Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking applicable to various monitoring scenes. Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Abnormality detection: Motion detection, video tempering, audio detection, no SD card, SD card full,

2	NETWORK PTZ DOME	4 MP Progressive scan HD up to 1920 × 1080 resolution	01	1/1.8" 4-Megapixel CMOS progressive scan, 2560 x 1440	Networ	SD card error, network disconnection, Ip conflict, illegal access, and voltage detection. Supports Max. 256G Micro SD card; built in MIC 12VDC/Poe power supply IP67 protection SMD plus A TECH 4MP 25x Starlight IR k PTZ Camera
	CAMERA			resolution	SD4942	25GB-HNR
		Smart IR up to 100M IR distance		Smart IR up to 150M IR distance	>	1/2.8" STARVIS <sup>TM</sup> CMOS
		30 X Optical Zoom		25 X Optical Zoom	>	25x optical zoom
		Multiple stream, Micro SD up to 64 GB		Multiple stream, Micro SD card (512 GB); FTP/SFTP; NAS	>	Starlight technology
		Digital Zoom Supported		Digital Zoom Supported	>	Max. 25/30fps@4M IR distance up to 100m
		IP 66 or 67		IP67, IK10, TVS 6000 V lightning		Perimeter protection
				proof; surge protection; voltage	>	Face detection
				transient protection	>	SMD 4.0.
		POE Network camera. HLC and BLC supported		POE, HLC/BLC	\$	IP66
		Water proof, Privacy mask, Motion Detection,		Water proof, Privacy mask, Motion		11 00
		Digital Defog		Detection, Digital Defog		
		Face detection, People counting, Tempering Alarm		Face detection, People counting, Tempering Alarm		
		Day/night functionality		Day/night functionality		
		2D/3D DNR (Digital noise reduction)		2D/3D DNR (Digital noise reduction)		
		Optical Glass Window, IR anti-reflection window		Optical Glass Window, IR anti-reflection		
				window		
		Ultra 265, MJPEG, ONVIF Conformance		Ultra 265, MJPEG, ONVIF Conformance		
3	NVR	16 channel NVR with 20-25 days recording	01	Dahua (DHI-NVR5216-EI) 16		A TECH 16 channels 4HDDs
		capacity		Channels 1U 2HDDs WizSense AL		nse Network Video Recorder
				NVR with 20-25 days recording		NVR5416-EI
				capacity	>	Smart H.265+/H.265/Smart
		Support 2-ch HDMI, 1-ch VGA, HDMI2 at up to		1 VGA, 1 HDMI VGA: 1920x1080,		H.264+/H.264/MJPEG decoding
1		4K (3840x2160) resolution		1280x1024, 1280x720		format
1				HDMI: 3840x2160,	>	Max. decoding capability: 32 x
1				1920x1080,1280x1024,1280x720	_	1080p@30fps or 16 x 4MP @30fps.
				Heterogeneous video source output		Max. 384 Mbps incoming/recording/outgoing
		Up to 12 Megapixel resolution recording		for HDMI and V 32MP; 24MP; 16MP; 12MP; 8MP;		bandwidth
		Op to 12 Megapixel resolution recolding		5MP; 4MP; 1080p; 720p; D1; CIF;	>	Support AcuPick with Max. 16-
				QCIF		Channel
				QCII,		CHAIIICI

		Support H.265 video formats		Support H.265 video formats	> Support N+M cluster
		4 SATA HDDs, up to 8 TB for each HDD support	1	2 SATA HDDs, up to 8 TB for each	<ul><li>Support N+M cluster</li><li>AI by recorder: 2-Channel face</li></ul>
				HDD support	detection and recognition, 4-channel
		Support various VCA detection alarm and VCA		Support various VCA detection	perimeter protection, and 8-channel
		search		alarm and VCA search	SMD Plus
		Support for P2P, UPnP, NTP, DHCP, PPPoE		Support for P2P, UPnP, NTP,	AI by camera: Face detection and
				DHCP, PPPoE	recognition, perimeter protection
					SMD Plus, metadata, ANPR, stereo
					analysis, heat map and people
					counting
					Security baseline 2.3
4	LED	Smart TV LED (SONY/SAMSUNG/LG)	01	LG C3 48inch OLED Screen	43" UHD LED Monitor, 4K Ultra-HD
		Screen display 32 inch		Screen display 48 inch	resolution, Built-in 3D COMB filter and 3D
		4K (UHD) - 2160p, or 3840 x 2160 pixels		4K (UHD) - 2160p, or 3840 x 2160	noise reduction, 8.5ms response time for no
		TIDD		pixels	motion blur, judder or ghosting, 1.07G
		HDR Dual screen		HDR	colors, for a realistic and immersive visual
			1	N/A OLED with viewing angle upto 85	experience, High fidelity digital processing
		OLED with viewing angle upto 85 degree		degree degree	for a brilliant and vivid video, 178°/178°
				degree	extra-wide viewing angle for overall viewing
					performance, Professional thermal design to
					extend equipment lifespan, Built-in power,
					low energy consumption
5	UPS	2Kva with Dry Battery upto 150 AH (Exide or	01	UPS 2KVA Deluxe Optima 2000	2 KVA online UPS with 150 AH Dry Battery
		Volta), 100 watts rated output, 3 to 4 hours recharge time, 1 Hour backup time		with 2 X 150AH dry Battery	
		Complete networking solution for the proposed	01	Local, complete	DAHUA TECH 4-Port PoE Managed Switch
		mode of communication with Optical fibre and	01	Local, complete	Model: PFS4206-4P-96
		Cat-6 (Quote with Fiber Network including			Layer 2 Managed PoE switch
		Switches, Module, Outdoor/Indoor cabinet etc.)			MAC auto study and aging, MAC
		Proper power sockets with an weather proof		Local	address list capacity is 8K
		security box for POE's and other equipment to			> Support IEEE802.3af, IEEE802.3at,
		keep all the supporting items like POE's, switches			Hi-PoE standard
		etc.			> Support RSTP
6	NETWORKING	Good strength poles for the deployment of cameras.		-	<ul><li>Industrial wide temperature design</li></ul>
1		Underground cabling where required, Proper	<del>                                     </del>		> PoE Management
		ducting where required		1	Payment: As per Tender Terms.
1		Proper power provisioning for each pole to		-	Delivery Period: : As per Tender Terms.
		provide electric power.			Installation: : As per Tender Terms.
1		Warranty: 2 year's parts and 3 years' service.		-	Validity: : As per Tender Terms.
		All participating vendors/bidders must be		-	Delivery Location: Free Delivery at
1		registered with Pakistan Engineering Council with			Consignee.
		field of Specialization, EE02 under relevant class			

_	ear 2023/24. All Bidders must visit office id meeting/ consultation for correct		Warranty One year warranty or as per the Tender Terms.
Note:	Wiring with all relevant material must be provided by the vender.	-	
	Quote Complete wiring package with detail qty and P/RFT cost.	-	

# <u>Specifications - CCTV System including 16x IP Cameras, 1 x PTZ Dome Camera And 32 Channel NVR With All Req Accessories</u>

<b>Sr.</b> #	Items	Specifications	Qty	M/s egs	M/s Vital International Ltd
1	NETWORK IP CAMERAS	Resolution: 3072 x 2048, Max 25fps  POE (power over Ethernet) Network camera HLC (Highlight Compensation) & BLC (Backlight Compensation) supported Water proof, Privacy mask, Motion Detection, Digital Defog Face detection, People counting, Tempering Alarm Day/night functionality 1/3" progressive scan, CMOS Smart IR up to 30M IR distance 2D/3D DNR (Digital noise reduction) Optical Glass Window, IR anti-reflection window Ultra 265, MJPEG, ONVIF Conformance  Multiple Stream IP 67 or IP 68 Dustproof	16	DAJUA (DH-IP-HFW2831TPASS2) Bullet 8MP Fixed-Focol Camera 8MP (3840 x 2160) @ 15 fps, and supports POE HLC/BLC Water proof, Privacy mask, Motion Detection, Digital Defog Face detection, People counting, Tempering Alarm Day/night functionality 1/2.7" 8Megapixel progressive CMOS Smart IR up to 80M IR distance 2D/3D DNR (Digital noise reduction) Optical Glass Window, IR anti- reflection window Ultra 265, MJPEG, ONVIF Conformance Multiple Stream IP 67	DAHUA TECH 8 MP IR Fixed-focal Bullet WizSense Network Camera Model: IPC-HFW2841S-S  > 8-MP ½.7" CMOS image sensor, low luminance, and high definition image.  > Outputs max. 8 MP (3840 x 2160) @20 fps, and supports 2688 x 1520 (2688 x 1520) @25/30fps.  > H.265 codec, high compression rate, ultra-low bit rate.  > Built-in IR LED, and the max. Illumination distance is 30 m.  > ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.  > Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.  > Intelligent monitoring: Instruction, tripwire (the two functions support the classification and accurate detection of vehicle and human).  > Abnormality detection: Motion detection, video tampering, audio detection, video tampering, audio detection, no SD card, SD card error, network disconnection, IP conflict,illegal access, and voltage detection.  > Supports max. 256 G Micro SD card; built in MIC.  > 12VDC/Poe power supply.  > IP67 protection.  > SMD Plus.

3	NVR	32 channel NVR with 20-25 days recording capacity  Support 2-ch HDMI, 1-ch VGA, HDMI2 at up to 4K (3840x2160) resolution  Up to 12 Megapixel resolution recording  Support H.265 video formats	01	DAHUA (DHI-NVR5432-4KS2) 32 Channel 1.5U 4K&H.265 pro, 4HDD, 320Mbps, NVR 4K NVR, Up to 32 channel IP cameras can be connected.  1VGA, 1 HDMI VGA: 1920x1080, 1280x1024, 1280x720 HDMI:3840x2160, 1920x1080, 1280x1024, 1280x720 Heterogeneous video source output for HDMI and V Up to 12MP Resolution for preview and Playback  Support H.265 video formats  4 SATA III ports, up to 8 TB capacity for each HDD	<ul> <li>32 Channels 2HDDs WizSense Network Video Recorder Model: NVR5232-EI</li> <li>Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.</li> <li>Max. Decoding capability: 32 x 1080p@30 fps or 16-x 4MP@30 fps.</li> <li>Max. 384 Mbps incoming/recording/outgoing bandwidth.</li> <li>Support AcuPick with Max, 16-Channel.</li> <li>Support N+M cluster.</li> <li>AI by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and recognition, perimeter protection, SMD plus, metadata, ANPR, stereo analysis, heat map, and people counting.</li> <li>Security baseline 2.3</li> </ul>
		Support various VCA detection alarm and VCA search  Support for P2P, UPnP, NTP, DHCP, PPPoE	_	Support various VCA detection alarm and VCA search  Support for P2P, UPnP, NTP, DHCP, PPPoE	
4	LED	Smart TV LED (SONY/SAMSUNG/LG) Screen display 40 inch 4K (UHD) - 2160p, or 3840 x 2160 pixels  HDR, OLED  Dual screen  OLED with viewing angle upto 85 degree	02	LG C3 48 Inch OLED screen Screen display 48 inch 4K (UHD) - 2160p, or 3840 x 2160 pixels HDR N/A OLED with viewing angle upto 85 degree	**43" UHD LED Monitor, 4K Ultra-HD resolution, Built-in 3D COMB filter and 3D noise reduction, 8.5ms response time for no motion blur, judder or ghosting, 1.07G colors, for a realistic and immersive visual experience, High fidelity digital processing for a brilliant and vivid video, 178°/178°extra-wide viewing angle for overall viewing performance, Professional thermal design to extend angle for overall viewing performance, Professional

						thermal design to extend equipment lifespan, Built-in power, low energy consumption"		
5	UPS	Volta), 100 watts	Battery upto 150 AH (Exide or s rated output, 3 to 4 hours Hour backup time	01	UPS 2KVA Deluxe Optima 2000 with 2 X 150AH dry Battery	2 KVA Online UPS with 2 X 100AH Dry Battery		
		Complete networking solution for the proposed mode of communication with Optical fibre and Cat-6 (Quote with Fiber Network including Switches, Module, Outdoor/Indoor cabinet etc.)			Local Complete	4-Port PoE Managed Switch Model: PFS4206-4P-96  ➤ Layer 2 managed PoE switch		
		Proper power soo security box for l to keep all the su switches etc.	ckets with an weather proof POE's and other equipment apporting items like POE's,		Local	<ul> <li>MAC auto study and aging, MAC address list capacity is 8k</li> <li>Support IEEE802.3at, Hi-PoE standard</li> <li>Support RSTP</li> </ul>		
		Good strength poles for the deployment of cameras.			-	<ul><li>Industrial wide temperature design</li><li>PoE Management</li></ul>		
		Underground cab ducting where re-	oling where required, Proper quired		-	Payment: As per Tender Terms.  Delivery Period: : As per Tender Terms.		
6	NETWORKING	Proper power provisioning for each pole to provide electric power.  Warranty: 2 year's parts and 3 years' service.			-	Installation: : As per Tender Terms.  Validity: : As per Tender Terms.		
					-	Delivery Location: Free Delivery at Consignee.		
		registered with P with field of Spe- relevant class for Bidders must vis consultation for o			-	Warranty One year warranty or as per the Tender Terms		
		1	Wiring with all relevant material must be provided by the vender.		-			
			Quote Complete wiring package with detail qty and P/RFT cost.		-			

# <u>Specifications - CCTV System including 09x IP Cameras, 2 x PTZ Dome Camera and 32 Channel NVR With All Req Accessories</u>

<b>Sr.</b> #	Items	Specifications	Qty	M/s egs	M/s Vital International Ltd
	NETWORK IP CAMERAS	Resolution: 3072 x 2048, Max 25fps  POE (power over Ethernet) Network camera HLC (Highlight Compensation) & BLC (Backlight Compensation) supported Water proof, Privacy mask, Motion Detection, Digital Defog Face detection, People counting, Tempering Alarm Day/night functionality 1/3" progressive scan, CMOS Smart IR up to 30M IR distance 2D/3D DNR (Digital noise reduction) Optical Glass Window, IR anti-reflection window Ultra 265, MJPEG, ONVIF Conformance Multiple Stream IP 67 or IP 68 Dustproof	<b>Qty</b> 16	M/s egs  DAHUA (DH-IP-HFW2831TPASS2) Bullet 8MP Fixed-Focol Camera  8MP (3840 x 2160) @ 15 fps, and supports 2688x1520 (2688x1520) @ 25/30fps  POE  HLC/BLC  Water proof, Privacy mask, Motion Detection, Digital Defog  Face detection, People counting, Tempering Alarm  Day/night functionality 1/2.7" 8Megapixel progressive CMOS  Smart IR up to 80M IR distance 2D/3D DNR (Digital noise reduction)  Optical Glass Window, IR anti-reflection window  Ultra 265, MJPEG, ONVIF Conformance  Multiple Stream  IP 67	
					full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection  Supports max. 256 G Micro SD

			1	1		1.1. 11.1. 1400
						card; built in MIC
					<i>&gt;</i>	12VDC/Poe power supply
					>	IP67 protection
					>	SMD Plus
2	NETWORK	4 MP Progressive scan HD up to $1920 \times 1080$	01	1/1.8" 4-Megapixel CMOS progressive		A TECH 4MP 25x Starlight IR
	PTZ DOME	resolution		scan, 2560 x 1440 resolution		k PTZ Camera
	CAMERA	Smart IR up to 100M IR distance		Smart IR up to 150M IR distance	SD4942	25GB-HNR
		30 X Optical Zoom		25 X Optical Zoom		1/2.8" STARVIS <sup>TM</sup> CMOS
		Multiple stream, Micro SD up to 64 GB		Multiple stream, Micro SD card (512 GB);	۶	25x optical zoom
				FTP/SFTP; NAS	>	Starlight Technology
		Digital Zoom Supported		Digital Zoom Supported	>	Max. 25/30fps@4M
		IP 66 or 67		IP67, IK10, TVS 6000 V lightning proof;	>	IR distance up to 100m
				surge protection; voltage transient	>	Perimeter protection
				protection	>	Face detection
		POE Network camera. HLC and BLC		POE, HLC/BLC		SMD 4.0.
		supported		,		1 - 1
		Water proof, Privacy mask, Motion Detection,		Water proof, Privacy mask, Motion	<b>&gt;</b>	IP66
		Digital Defog		Detection, Digital Defog		
		Face detection, People counting, Tempering		Face detection, People counting, Tempering		
		Alarm		Alarm		
		Day/night functionality		Day/night functionality		
		2D/3D DNR (Digital noise reduction)		2D/3D DNR (Digital noise reduction)		
		Optical Glass Window, IR anti-reflection		Optical Glass Window, IR anti-reflection		
		window		window		
		Ultra 265, MJPEG, ONVIF Conformance	0.1	Ultra 265, MJPEG, ONVIF Conformance	22 24	
3	NVR	32 channel NVR with 20-25 days recording	01	DAHUA (DHI-NVR5432-4KS2) 32		nnels 2HDDs Wiz Sense Network
		capacity		Channel 1.5U 4K&H.265 pro, 4HDD,		Recorder
				320Mbps, NVR 4K NVR, Up to 32		NVR5232-EI
				channel IP cameras can be connected.	>	Smart H.265+/H.265/Smart
		Support 2-ch HDMI, 1-ch VGA, HDMI2 at up		1VGA, 2 HDMI VGA: 1920x1080,		H.264+/H.264/MJPEG decoding
		to 4K (3840x2160) resolution		1280x1024, 1280x720		format
				HDMI:3840x2160, 1920x1080,	>	Max. decoding capability: 32 x
				1280x1024, 1280x720 Heterogeneous		1080p @30fps or
				video source output for HDMI and V		16x4MP@30fps
		Up to 12 Megapixel resolution recording		Up to 12MP Resolution for preview and	>	Max. 384 Mbps
				Playback		incoming/recording/outgoing
		Support H.265 video formats		Support H.265 video formats		bandwidth
		4 SATA HDDs, up to 8 TB for each HDD		4 SATA III ports, up to 8 TB capacity	>	Support AcuPick with Max. 16-
		support		for each HDD		Channel.
		Support various VCA detection alarm and		Support various VCA detection alarm and	>	Support N+M cluster
		VCA search		VCA search	>	AI by recorder: 2-channel face
		Support for P2P, UPnP, NTP, DHCP, PPPoE	1	Support for P2P, UPnP, NTP, DHCP, PPPoE		detection and recognition, 4-
			<u> </u>	Tr,,,,	<u> </u>	detection and recognition, 7-

					channel perimeter protection, and 8-channel SMD Plus.  AI by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, Stereo analysis, heat map and people counting  Security baseline 2.3
4	LED	Smart TV LED (SONY/SAMSUNG/LG) Screen display 40 inch 4K (UHD) - 2160p, or 3840 x 2160 pixels HDR Dual screen OLED with viewing angle upto 85 degree	02	LG C3 48 Inch OLED screen Screen display 48 inch 4K (UHD) - 2160p, or 3840 x 2160 pixels HDR N/A OLED with viewing angle upto 85 degree	43" UHD LED Monitor, 4K Ultra-Hd resolution, Built-in 3D COMB filter and 3D noise reduction, 8.5ms response time for no motion blur, judder or ghosting, 1.07G colors, for a realistic and immersive visual experience, High fidelity digital processing for a brilliant and vivid video, 178°/178°extra-wide viewing angle for overall viewing performance, Professional thermal design to extend equipment lifespan, Built-in power, low energy consumption.
5	UPS	2Kva with Dry Battery upto 150 AH (Exide or Volta), 100 watts rated output, 3 to 4 hours recharge time, 1 Hour backup time	01	UPS 2KVA Deluxe Optima 2000 with 2 X 150AH dry Battery	2KVA online UPS with 2 x 100AH Dry Battery
6	NETWORKING	Complete networking solution for the proposed mode of communication with Optical fibre and Cat-6 (Quote with Fiber Network including Switches, Module, Outdoor/Indoor cabinet etc.)  Proper power sockets with an weather proof security box for POE's and other equipment to keep all the supporting items like POE's, switches etc.  Good strength poles for the deployment of cameras.  Underground cabling where required, Proper ducting where required Proper power provisioning for each pole to provide electric power.  Warranty: 2 year's parts and 3 years' service.  All participating vendors/bidders must be registered with Pakistan Engineering Council with field of Specialization, EE02 under relevant class for the year 2023/24. All	01	Local Complete  Local  -  -  -  -	4-Port PoE Managed Switch Model: PFS4206-4P-96  Layer 2 managed PoE switch  MAC auto study and aging, MAC address list capacity is 8K  Support IEEE802.3af, IEEE802.3at, Hi-PoE standard  Support TSRP  Industrial wide temperature design  PoE Management.  Warranty One year warranty or as per the Tender Terms.

	isit office for pre-bid meeting/ r correct bidding.		
Note:	Wiring with all relevant	-	
	material must be provided		
	by the vender.		
	Quote Complete wiring	-	
	package with detail qty		
	and P/RFT cost.		

#### SPECIFICATION OF "CCTV SYSTEM NVR WITH 06 X IP CAMERAS"

Sr.	<b>Peripherals/Functions</b>	Specifications	M/s egs	M/s Vital International Ltd
1	Brand	Renowned Brand commonly used in Pakistan	DAHUA	DAHUA DH-IPC-HFW1439TL1-A-IL 4MP Smart Dual Light Network Camera  • 4MP Snart Dual Light Bullet Network
	6IP Camera	4 MP or Higher each with full color	DAHUA (DH-IPCHFW143S1LEDS4) 4MP Bullet Full-Color Fixed-Focal Bullet Network Camera	Camera  IR Illumination Distance is 30 meter  Warm light distance is 30 meter
3	NVR 16 Channel	Hybrid NVR with HD resolution	Dahua (DHI-NVR5216-EI) 16 Channels 1U 2HDDs WizSense AI NVR	Built-in MIC  16CH compact 1U HDD Wiz Sense Network
4	HDD	8TB	Western Digital PURPLE 8 TB Hard Drive	video recorder Model NVR4116HS-EI
6	Cable for connectivity  Power Requirements	3M Cat 6 STP Input voltage (auto rang Ving): 240 VAC (± 10%), 50/60 Hz, 5 A max, or Pakistan Compatible	Digitus CAT 6 STP Cable  DAHUA POE switch	<ul> <li>Smart H.265+/H.265/Smart         H.264+/H.264/MJPEG decoding         format</li> <li>Access, storage or forwarding at         256Mbps (180 Mbps when AI         function enabled)</li> </ul>
7	LED 50 Inch	5 Series, Res 1920x1080	Samsung (Original) 50" 50B8000 Android TV, LED 4K Smart TV, 3840x2160	Max. Decoding capability: 16-x 1080p@30fps. Supports adaptive
8	Warranty	01 Year on-site comprehensive	1-Year	decoding  ➤ AI by NVR: 1-channel face detection
9	Dealership	Authorized Dealership with OEM certification	N/A	and recognition; 2-channel perimeter protection; up to 10 face databases and
10	Installation and configuration with e	xisting system and training	Complete	<ul> <li>20,000 face images; 4-channel SMD Plus</li> <li>AI by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map.</li> <li>Connected to the third-party network cameras</li> <li>Security bassline 2.3</li> <li>Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format</li> <li>Max. Decoding capability: 32 x</li> </ul>

	Mod Lay 1*1 Bass LEI Sup in P cont Pay Deli Inst	1080p@30fps or 16-x 4MP@30fps  Max. 384 Mbps incoming/recording/outgoing bandwidth  Support AcuPick with Max. 16- Channel  Support N+M cluster  AI by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus  AL by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, Stereo analysis, heat map and people counting  Security baseline 2.3 ort Switch with 8-Port Poe del: PFS3110-8ET-96 er 2 Hardened PoE Switch, 96 Watts, 000 Base-X + 1*10/100/1000 e-T + 8*10/100 Base-T POE  D 50 inch  ply & installation of CAT-6 Network Cable VC Pipe/Duct/Conduit including the RK-45 nectors.  ment: As per Tender Terms. ivery Period: : As per Tender Terms. allation: : As per Tender Terms.
	Pay Deli Inst Vali Deli War	ment: As per Tender Terms. ivery Period: : As per Tender Terms.

<u>Tents</u>			M/s Bisma Enterprises	
1	Tent Class	Double ply & double fly Tent inside measuring 8 ft wide and 11 ft long made out of 400 to 600 g/m² 100% Cotton Canvas rot & water proof & fireproof (Optional). The tent has 3 ft high side walls. Tent has a height of 8 ft at the center with 2 x 3 in dia & 10 ft long bamboo vertical supports at edges and 1 x 3 in dia & 11 ft long horizontal support on top of two long vertical supports. Vertical supports must have 3/8 to ½ in dia steel pins projecting out by 5 inches for tightening ropes.  The horizontal support must have round shaped steel	Double ply & single fly Tent inside measuring 8 ft wide and 8 long made out of 400 to 600 g/m <sup>2</sup> 100% Cotton Canvas rot water proof & fireproof (Optional). The tent has 3 ft high side walls. Tent has a height of 8 ft at the center with 2 x 3 in dia & 1 ft long bamboo vertical supports at edges and 1 x 3 in dia & 1 ft long horizontal support on top of two long vertical supports Vertical supports must have 3/8 to ½ in dia steel pins projecting out by 5 inches for tightening Ropes.  The horizontal support must have round shaped steel connectors at both ends and having 2-inch dia, 2 mm thickness.	
		connectors at both ends and having 2-inch dia, 2 mm thickness with ½ inch dia hole at the center to receive vertical post pin. On two shorter sides, the tent should have openable qannat panels, conforming to the shape of opening. A blue or brown inner layer made up of cotton cloth should be fixed to enhance interior of the tent. At rear end of tent there should be double ply but single fly semicircular attached partition (for bath or cooking) some 3.5 ft wide at center. Inside tent should have Cotton Canvas rot & water proof & fireproof (Optional) daree Tent package must include 22 steel pegs each measuring 15 inches long and ½ dia with hooks at one end and point edge at the other end. There should be 15 small pegs measuring 6-inch length with 3/8-inch dia with hook at one end and pointed end at other side.  The tent should durable and good in wind and outdoor camping conditions. It should be easy setup in all	with ½ inch dia hole at the center to receive vertical post pir On two shorter sides, the tent should have openable qannal panels, conforming to the shape of opening. A blue or brown inner layer made up of cotton cloth should be fixed to enhance interior of the tent. At rear end of tent there should be double ply but single fly semicircular attached partition (for bath of cooking) some 3.5 ft wide at center. Inside tent should have Cotton Canvas rot & water proof & fireproof (Optional) daree. Tent package must include 14 steel pegs each measuring 1 inches long and ½ dia with hooks at one end and point edge at the other end. There should be 15 small pegs measuring 6-inchength with 3/8-inch dia with hook at one end and pointed end at other side.  The tent should durable and good in wind and outdoor camping conditions. It should be easy setup in all weather, easy to take down, easy to roll up.	

weather, easy to take down, easy to roll up.

½ kg hammer and complete in all respects.

Tent should be with all parts mentioned above along 1 x

Tent should be with all parts mentioned above along 1 x ½ kg

hammer and complete in all respects.

			Warranty: - 3 years from the date of inspection	
2	Tent	F	Double ply & single fly Tent inside measuring 8 ft wide	Double ply & double fly Tent inside measuring 8 ft wide and 11
	Class		and 8 ft long made out of 400 to 600 g/m <sup>2</sup> 100% Cotton	ft long made out of 400 to 600 g/m <sup>2</sup> 100% Cotton Canvas rot &
			Canvas rot & water proof & fireproof (Optional).	water proof & fireproof (Optional).
			_	_
			The tent has 1 ft high side walls. Tent has a height of 8 ft	The tent has 3 ft high side walls. Tent has a height of 8 ft at the
			at the center with 2 x 3 in dia & 10 ft long bamboo vertical	center with 2 x 3 in dia & 10 ft long bamboo vertical supports at
			supports at edges and 1 x 3 in dia & 11 ft long horizontal	edges and 1 x 3 in dia & 11 ft long horizontal support on top of
			support on top of two long vertical supports. Vertical supports must have 3/8 to ½ in dia steel pins projecting	two long vertical supports. Vertical supports must have 3/8 to \frac{1}{2} in dia steel pins projecting out by 5 inches for tightening
			out by 5 inches for tightening ropes. The horizontal	ropes. The horizontal support must have round shaped steel
			support must have round shaped steel connectors at both	connectors at both ends and having 2-inch dia, 2 mm thickness
			ends and having 2-inch dia, 2 mm thickness with ½ inch	with ½ inch dia hole at the center to receive vertical post pin.
			dia hole at the center to receive vertical post pin. On two	On two shorter sides, the tent should have openable qannat
			shorter sides, the tent should have openable qannat	panels, conforming to the shape of opening. A blue or brown
			panels, conforming to the shape of opening. A blue or	inner layer made up of cotton cloth should be fixed to enhance
			brown inner layer made up of cotton cloth should be fixed to enhance interior of the tent. At rear end of tent	interior of the tent. At rear end of tent there should be double
			there should be double ply but single fly semicircular	ply but single fly semicircular attached partition (for bath or cooking) some 3.5 ft wide at center. Inside tent should have
			attached partition (for bath or cooking) some 3.5 ft wide	Cotton Canvas rot & water proof & fireproof (Optional) daree
			at center. Inside tent should have Cotton Canvas rot &	Contain Carriag for a water proof a morphoof (Optional) days
			water proof & fireproof (Optional) daree	Tent package must include 22 steel pegs each measuring 15
				inches long and $\frac{1}{2}$ dia with hooks at one end and point edge at
			Tent package must include 14 steel pegs each measuring	the other end. There should be 15 small pegs measuring 6-inch
			15 inches long and ½ dia with hooks at one end and point	length with 3/8-inch dia with hook at one end and pointed end
			edge at the other end. There should be 15 small pegs	at other side.
			measuring 6-inch length with 3/8-inch dia with hook at one end and pointed end at other side.	The tent should durable and good in wind and outdoor camping
			one end and pointed end at other side.	conditions. It should be easy setup in all weather, easy to take
			The tent should durable and good in wind and outdoor	down, easy to roll up.
			camping conditions. It should be easy setup in all	
			weather, easy to take down, easy to roll up.	Tent should be with all parts mentioned above along $1 \times \frac{1}{2} kg$
				hammer and complete in all respects.
			Tent should be with all parts mentioned above along 1 x	
			$\frac{1}{2}$ kg hammer and complete in all respects.	

3	PT	Warranty: - 3 years from the date of inspection  Wooden board made up of seasoned Diyar wood measuring 750 mm x 600 mm with 20 mm thickness with 2 x braces measuring 300 mm x 580 mm with 25 mm thickness made from seasoned Diyar wood. Having 190 mm diameter round base plate having 7 mm thickness made of steel/sliver securely screwed up with 2 mm thick and 60 mm outer dia flange and 25 mm outer dia (& 15 mm inner dia) and 15 mm projecting threaded brass socket for bolting stand. All complete as per sample.	Wooden board made up of seasoned Diyar wood measuring 750 mm x 600 mm with 20 mm thickness with 2 x braces measuring 300 mm x 580 mm with 25 mm thickness made from seasoned Diyar wood. Having 190 mm diameter round base plate having 7 mm thickness made of steel/sliver securely screwed up with 2 mm thick and 60 mm outer dia flange and 25 mm outer dia (& 15 mm inner dia) and 15 mm projecting threaded brass socket for bolting stand. All complete as per sample.
4	PT Stand	<ul> <li>Wooden PT Stand / tripod made up of seasoned Diyar wood and having 3 equal-sized and length legs and each following sepcs: <ul> <li>Length/height – 1200 mm</li> <li>2 x 30 mm x 15 mm wooden pieces</li> <li>1 x 120 mm long &amp; 18 mm thick trapezoidal wooden brace at the center having 45 mm upper width at one end and 35 mm lower width at the other end.</li> <li>65 mm long 25 mm wide &amp; 1.5 mm thick pointed steel shoe at bottom projecting out by 25 mm.</li> <li>1 x 160 mm long bolt made up of brass having 5 mm thickness and 40 cm long threads on both ends and with 2 x 35 mm wide &amp; 2 mm thick butterfly nets for both ends.</li> <li>Edges must be beveled.</li> <li>All complete as per sampl;e.</li> </ul> </li> <li>PT Stand Top Support: PT Stand top triangular support made of seasoned Diyar wood with following dimensions:</li> </ul>	Wooden PT Stand / tripod made up of seasoned Diyar wood and having 3 equal-sized and length legs and each following sepcs:  • Length/height – 1200 mm • 2 x 30 mm x 15 mm wooden pieces • 1 x 120 mm long & 18 mm thick trapezoidal wooden brace at the center having 45 mm upper width at one end and 35 mm lower width at the other end. • 65 mm long 25 mm wide & 1.5 mm thick pointed steel shoe at bottom projecting out by 25 mm. • 1 x 160 mm long bolt made up of brass having 5 mm thickness and 40 cm long threads on both ends and with 2 x 35 mm wide & 2 mm thick butterfly nets for both ends. • Edges must be beveled. • All complete as per sampl;e.  PT Stand Top Support: PT Stand top triangular support made of seasoned Diyar wood with following dimensions: • Each projecting piece measuring 70 mm x 50 mm (thick).

		<ul> <li>Each projecting piece measuring 70 mm x 50 mm (thick).</li> <li>2 x co-centric holes at center. Outer hole having 52 mm dia with 4 mm depth, whereas, inner having 27 mm dia with 46 mm depth (going through &amp; through) for securing stand bold into PT Base Plate.</li> <li>Stand bolt made up of brass having 60 mm length and 15 mm thickness with 20 mm long threads and having 65 mm wide &amp; 6 mm thick butterfly bolt head far easy operation.</li> <li>All complete as sample.</li> </ul>	<ul> <li>2 x co-centric holes at center. Outer hole having 52 mm dia with 4 mm depth, whereas, inner having 27 mm dia with 46 mm depth (going through &amp; through) for securing stand bold into PT Base Plate.</li> <li>Stand bolt made up of brass having 60 mm length and 15 mm thickness with 20 mm long threads and having 65 mm wide &amp; 6 mm thick butterfly bolt head far easy operation.</li> <li>All complete as sample.</li> </ul>
2	Sight Rule	Wooden sight Rule made up from seasoned Diyar wood with 76 mm length, 18 mm thickness and having 45 mm width at bottom and 30 mm width at the top.  1 x sight at one end made up of brass and measuring 19 mm wide, 100 mm high with 70 mm long beveled 0.5 mm wide slit along the center and 1 x 1 mm size hole at the top to tie string.  1 x sight at other end made up of brass and measuring 19 mm wide, 100 mm high with 70 mm long 10 mm wide opening and 2 x 1 mm size holes at the top & bottom to tie string  The sight should have 45 mm long and 18 mm wide 5 mm thick with 2 mm deep cut at center base for securely fixing the sight onto the sight rule with help of screws. A 35 mm long diagonal U-shaped support tightened with sight rule with help of screws/nuts.	Wooden sight Rule made up from seasoned Diyar wood with 76 mm length, 18 mm thickness and having 45 mm width at bottom and 30 mm width at the top.  1 x sight at one end made up of brass and measuring 19 mm wide, 100 mm high with 70 mm long beveled 0.5 mm wide slit along the center and 1 x 1 mm size hole at the top to tie string.  1 x sight at other end made up of brass and measuring 19 mm wide, 100 mm high with 70 mm long 10 mm wide opening and 2 x 1 mm size holes at the top & bottom to tie string.  The sight should have 45 mm long and 18 mm wide 5 mm thick with 2 mm deep cut at center base for securely fixing the sight onto the sight rule with help of screws. A 35 mm long diagonal U-shaped support tightened with sight rule with help of screws/nuts.
6	Warranty	2 years.	2 years

Bid offered by M/s Bisma Enterprises meets technical specifications and is recommended for further necessary action, please.