

AVIATION COMPLEX AT BLUE AREA, ISLAMABAD

BILL NO. 3.C: ELV WORKS

BILL OF QUANTITIES

Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)
GENERAL NOTE. SCOPE : <i>(Applicable to all sections)</i> Supply, installation, testing and commissioning of the following items of work, including all labour, tools, plant, accessories, etc. required for completion of each item as per specifications and as approved by the Engineer.					
STRUCTURED CABLING NETWORK Ref.Spec.Sec. 8212, 8230, 8240, 8290, 8312					
ELV-01	Wiring of CAT-6A, F/UTP Cable from Telecommunication RJ45 outlet point to relevant Floor distributor including appropriate size concealed or surface PVC conduit or PVC channel and all accessories with cutting/making holes in walls making surface good complete in all respect.	Rft.	900,000		
ELV-02	150mm x 75mm of G I sheets of 16 SWG sheet steel Powder coated trunking with cover including joints bends mounting brackets joints bends mounting Brackets hanger complete with all accessories	Rft.	3,000		
Following type CAT-6A, F/UTP Giga Speed patch cord with required connector at both ends:					
ELV-03	1 metre (3 ft.) long	No.	4,500		
ELV-04	3 metre (10 ft.) long	No.	4,500		
ELV-05	Installation of Data Point with Single shutter face plate, F/UTP Cat-6A Keystone Jack, including I/O Complete in all respect, as per drawing and specifications.	No.	4,500		
ELV-06	24 port Cat-6A F/UTP Giga Speed modular loaded (RJ45) jack Loaded patch panel compatible with 19" rack installed in floor/wall mounted cabinet including built-in rear cable management with all mounting accessories.	No.	500		
ELV-07	19" Rack mounted Front Cable Management.	No.	500		
Following sizes Rack with Plexiglass door including Hoops, side management, cable trays, fan tray and required number of power sockets including all mounting accessories.					
ELV-08	Server Rack 42 U	No.	70		
ELV-09	27 U	No.	35		
ELV-10	12 core, 9/125 um, Dielectric optical fibre (MM) 10G Supported back bone cable in already installed conduit / trunking.(Back Bone)	Mtr	20,000		
ELV-11	12 port optical fibre patch panel MULTIMODE LC type including pigtails and splice tray with all installation accessories.	No.	9		

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	Layer-3 Network Core Switch				
ELV-12	Core Fiber Switch, 1RU, 10GE L3 Routing, fixed chassis with 20 SFP+ ports, one optional module slot, Switching Capacity 220 Gbps, Front to back cooling. Includes AC power supply and cord. Ships with user manuals access card, rack mounts, and USB to RJ-45 adaptor, license included, with all accessories, complete in all aspects. (Huawei Core Switch - 24-ports S6730-H24X6CV2 x 1 Huawei Distribution Switches - 48-ports S6730-H48X6CV2 x 3)	No.	9		
	PoE Switch Layer-2				
	Layer-2 PoE Gigabit Ethernet switches 1RU chassis, 24/48 (10/100/1000) BaseT, 2 fixed SFP+ 1G/10G ports, 1 expansion slot. 10G uplink speed enabled by default. Switching Capacity 128 Gbps, Basic Layer-3 Routing, Includes internal AC PSU, power cord, manuals access card, rack mounts, RJ45 to DB9 adaptor, including all accessories complete in all respects.				
ELV-13	24 Port PoE switch	No	500		
ELV-14	48 Port PoE switch	No	50		
ELV-15	WIFI device (11ax indoor, 2+2 dual bands, smart antenna	No	216		
	OFDF-48 Ports (Optical Fiber Distribution Frame)				
ELV-16	48 Ports 19" Rack Mounted Fiber Optic distribution frame (1U) with Multimode Couplers, Pigtails, Fiber Patch Cords, including cost of fiber splicing charges, Complete in all respect.	No	70		
	OFDF-96 Ports (Optical Fiber Distribution Frame)				
ELV-17	96 Ports 19" Rack Mounted Fiber Optic distribution frame (1U) with Multimode Couplers, Pigtails, Fiber Patch Cords, including cost of fiber splicing charges, Complete in all respect.	No	10		
ELV-18	Fiber Patch Cord LC/LC Duplex MM/SM 3 Meter	No	600		
	SFP Transceivers - 10 Giga.				
ELV-19	10 Gigabit optical transceiver SFP+). Supports multimode fiber over 850nm wavelength nominal) with an LC connector. Typical reach of 300m.	No	600		
ELV-20	PDU,6 Way With Main Switch, 3.0M Cord And Plug	No.	148		

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ELV-21	Digital Telephone Exchange having Oxo Connect PCX Office with latest release 12.3, ISDN PRI Circuit : 01, with CLI Facility support 50 incoming lines, PRI Card, 1000 IP Extension Licenses, Analog Extension Interfaces with CLI Facility 10 Nos expandable up to 500 analog extensions, Digital Premium Desk phone for Operator Console 01 No, Voice Mail (2 ports,1 hour), Automated Attendant, Call Logging Software (Vista 8770), Battery Backup with Maintenance free Batteries for 2 Hours Autonomy, Music on Hold (external calls only), Call Forwarding - Call Pickup (Direct and Group), Voice Mail - Speed Dialing - Call by name - Appointment Reminder, Call Back - Call Parking - Intrusion - Automatic Route Selection, Call Restriction - Call Routing - Time Ranges - Outgoing call duration classes, VoIP (SIP/H.323) Support, Set Locking - Call Broadcast on Executive Sets - Hunt Groups, Tele-Maintenance Access to remotely maintain the system, including cost of Core i7 Computer with 25mm diaTB Hard Drive, Keyboard, Mouse. complete in all respects with accessories.	No	1		
ELV-22	IP Phone (16 lines, 4.3" 480x272 color LCD, 10 DSS keys, PoE, GE) For Operator	No	10		
ELV-23	Executive IP Telephone Set with CLI facility, Complete in all respects.	No	40		
ELV-24	IP Telephone Set with CLI facility, Complete in all respects.	No	400		
FIRE ALARM SYSTEM					
Ref.Spec.Sec. 8230, 8331					
ELV-25	Supply , Installation , Testing and commissioning of Intelligent Addressable , Networkable Fire Alarm Control Panel (12-Loop), Wall Mount, Microprocessor Based, Lcd Display, Multi-Function Status Leds, 127 Devices / Elements Per Loop , Network Able Via 2-Core Copper Cable & Cat-VI Cable Simultaneously Upto A Range Of 40 Km on Single Mode Optical Fiber, Graphical User Interface Support, Remotely Programmable, Free Of Cost Programming Software, Input/Output Interfacing, Multi Configuration Level, 24 Hours Back Up Time & 30 Minutes Alarm Time Compatible with Building Management system complete in all respect as approved by the Engineer.	No.	4		
ELV-26	2 Loop Addressable Network Fire Alarm Control Panel	No.	16		
ELV-27	Supply , Installation , Testing and commissioning of Addressable Photo electric Smoke Detector with Base including all installation accessories complete in all respect.	No.	1,500		
ELV-28	Supply , Installation , Testing and commissioning of Addressable heat detector with base including all installation accessories complete in all respect.	No.	200		
ELV-29	Supply , Installation , Testing and commissioning of Addressable Multi detector with base including all installation accessories complete in all respect.	No.	500		
ELV-30	Supply , Installation , Testing and commissioning of I/O module to connect fire alarm system with access control devices including all installation accessories complete in all respect.	No.	80		

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ELV-31	Supply , Installation , Testing and commisioning of Addressable sounder with Flasher, with base including all installation accessories complete in all respect.	No.	300		
ELV-32	Supply , Installation , Testing and commisioning of Addressable Manual Call Point, with base including all installation accessories complete in all respect.	No.	300		
ELV-33	2 x 2.5 sq.mm twin + earth fire resistant cable 1" inch dia pvc conduit complete in all respect.	Rft.	200,000		
ELV-34	CLSS Module/CLSS Gate Way for multiple fire control panels to communicate on network	Job	1		
ELV-35	BACnet Module for BMS Integration	Job	1		
ELV-36	Smoke Testing Spray For Testing of Smoke & Multi Detectors	Job	1		
ELV-37	Programming Testing & Commissioning of Fire Alarm System	Job	1		
ELV-38	Programming Testing & Commissioning of CLSS & BacNet	Job	1		
IP CCTV SYSTEM (Ref. Spec. Sec. 8001, 8335)					
ELV-39	Wiring of CAT-6, F/UTP Cable from Telecommunication RJ45 outlet point to relevant Floor distributor including appropriate size concealed or surface PVC conduit or PVC channel and all accessories with cutting/making holes in walls making surface good complete in all respect.	Rft	200,000		
ELV-40	Supply, Installation ,Testing and comisioning of 4 Megapixel Full HD Network IR Bullet/Dome Cameras with Motorized Varifocal Lens. 4MP resolution, Up to 30fps Color : 0.1Lux (F1.6, 1/30sec), B/W : 0Lux (IR LED On) 2 ~ 10mm (3.1x) motorized varifocal, IR viewable length: 30m (98.42ft) Day & Night (ICR), WDR (120dB) H.265, H.264, MJPEG, Multiple streaming supported Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering Hallway view (90°/270°), Digital Noise Reduction SSNR, Motion Detection 4ea, polygonal zones, Audio Compression G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz, G.726 16Kbps, 24Kbps, 32Kbps, 40Kbps, Application Programming Interface ONVIF Profile S/G/T, SUNAPI (HTTP API), LDC support (Lens Distortion Correction) , Micro SD/SDHC/SDXC memory slot (Max. 128GB) IP66, IK10 complete in all respect as approved by the Engineer.	Job.	800		

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ELV-41	Supply, Installation ,Testing and comisioning of 4K 30x Network IR Wiper PTZ Dome Camera • 4K resolution • IR viewable length : 200m (656ft) • 30x optical zoom lens (5mm ~150mm) (57.42° ~ 2.19°) • -20° tilt look-up capability to see above the horizon • H.265, H.264, MJPEG triple codec support • Multiple streaming, support • Day & Night (ICR), extreme WDR • DIS with Built-in Gyro sensor • Azimuth display (Cardinal & intermediate directions) • AI-based Object Auto tracking (Person, Vehicle), target lock tracking, Intelligent video analytics • Dual Memory slots (Maximum 512GB x 2) • IP66, IK10, NEMA4X, NEMA TS-2 2.2.8 (Vibration) & 2.2.9 (Shock) • HPoE (IEEE802.3bt, Class6, Type3, Injector included) • UL CAP Cybersecurity certified Brand: Hanwa /SAMSUNG, SONY, BOSCH, PELCO, AXIS and Avigilon. complete in all respect as approved by the Engineer.	Job.	4		
ELV-42	Supply, Installation ,Testing and comisioning of Network Controller for PTZ Speed Dome Camera Specifications: • Compatible with PTZ Cameras • Superior system compatibility by CMS • NET-i-viewer Support • 3D Joystick control for Zoom • USB Interface • Easy Firmware Upgrade , Galvanized Poles for CCTUp to 10 feet complete in all respect as approved by the Engineer.	Job.	4		
ELV-43	24 port Cat-6 FTP shielded Giga Speed modular loaded (RJ45) jack patch panels compatible with 19" rack installed in floor/wall mounted cabinet including built-in rear cable management with all mounting accessories.	Job.	70		
ELV-44	19" Rack mounted Front Cable Management with all installation accessories.	Job.	70		

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ELV-45	Supply, Installation ,Testing and comisioning of 256 CH• Up to 256CH, 32MP Resolution Max. 400Mbps network camera recording , HDMI out, User friendly UI / UX , AI search support when working with AI camera , Dynamic Event support , New event function of cameras is available without software update , Bookmark management (Up to 100 set) H.265, H.264, MJPEG compression support SATA 8ea (Up to 80TB, Non-RAID mode) RAID 5/6 support 8K NVR, up to 256channels, License-free recording Decoding > Multi Screen Display [Local Monitor] - Dynamic layout, Virtual channel view - Clone Mode : Up to 36 Division - Expand Mode : HDMI1 up to 36 Div. HDMI2 up to 16 Div. [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9 Supports H.265, H.264, & MJPEG CODECs, Up to 16 fixed internal SATA HDDs (10TB max per HDD), RAID 5 & 6 recording , Hot swap ARB (Automatic Recovery Backup) & Failover(N+1) support 400 Mbps recording / up to 32 Mbps playback Dual stream recording, WiseStream technology HDMI/VGA dual display, max. resolution of 32MP recording/display Add AI search capabilities to select Cameras AI search (Wisenet AI cameras only) web UI 2.0 (no plugins required) P2P / QR Code for easy connection to t Viewer / Mobile NDAA & FCC Compliant complete in all respect as approved by the Engineer.	Job.	4		
ELV-46	Storage capacity 10 TB (Enterprise grade HDD) Interface SAS, Security SE, Disk Speed (RPM) 7200rpm , Cache Size 256MB , Transfer Rate Up to 250MB/s complete in all respect as approved by the Engineer.	Job.	100		
ELV-47	75" LED TV for CCTV video viewing & along with vedio controller including all mounting accessories for wall mounting or hanging from ceiling. Following type of Gigabit Network POE Switches, stackable with modular OS and AV input output.	Job.	18		
ELV-48	24-Port Industrial Grade Gigabit Poe+ Managed Ethernet Switch Supports 24*10/100/1000Tx IEEE 802.3 af/at PoE+ Gigabit Ports (PSE: 30W/Port) + 4*Gigabit Copper/SFP Combo Ports (4*10/100/1000Tx RJ45 + 4*100/1000 SFP Slots) , SFP Socket for Easy and Flexible Fiber Expansion , Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB , Security: 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), HTTPS, SSH and SNMPv3 , Redundancy: Proprietary Ring (Ultra-High-Speed Recovery Time < 20 ms), RSTP/STP (802.1w/1D), MSTP Does not support ERPS 48VDC Power Input (46-57 VDC for PoE af, 53-57 VDC is Recommended for PoE at) & 2 Relay Outputs Extended Operating Temperature: -40°~75°C , Power Polarity Reverse Protection, Overload Current Protection, 1U Rackmount Design , IP30 Protection , 5-Year Warranty 240 Watt Industrial Single Output DIN Rail Power Supply - 48 VDC / 5.0 Amp for LNP-2804GN-SFP-T Network Switch 240 Watt Industrial Single Output DIN Rail Power Supply - 48 VDC / 5.0 Amps complete in all respect as approved by the Engineer.	Job.	70		
ELV-49	10-Meter-High Quality HDMI Cable complete in all respect as approved by the Engineer.	Job.	40		

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ELV-50	PC for Cameras Monitoring and Management. • 12th Generation Intel Core i9-12900/or latest (16 Cores/30MB/32T/2.4GHz to 5.1GHz/65W) • 32GB DDR5 Non-ECC Memory • 1 TB SSD 7200 RPM • 8x DVD+/-RW 9.5mm Slim line Optical Disk Drive • Intel Integrated Graphics, RTX 3080 • Dell USB Optical Mouse-MS116 (EPEAT) – Black • Dell Wired Keyboard KB216 Black (English) • Pro Support and Next Business Day Onsite Service-ACDTS Initial, 36 Month(s) complete in all respect as approved by the Engineer.	Job.	4		
ELV-51	NVR Management Software • Multiple OS support (Windows, macOS) • Easy and intuitive UI • Flexible channel division and custom layout • Playback speed 1x, 2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x • Search and play recorded video • AI search (Person, Face, Vehicle, LPR) • Fisheye dewarping • Multiple applications on multiple monitors • Display web pages (ex. NVR web-viewer) • Media files play in the layout • Event trigger and action rule management • Log search (Event, System, and Audit) • Remote connection (DDNS/P2P*) • User permission management Device analytics events. • Motion detection, Video analytics (Passing, Intrusion, Entering, Exiting, Appearing, Disappearing, Loitering), Tampering detection, Face detection, Defocus detection, Fog detection, Audio detection, Audio analytics (Scream, Gunshot, Explosion, Crashing), Auto tracking, Video loss, Alarm in, Dynamic event. Device system events • Power status, Fan status, recording status, setting change, System status complete in all respect as approved by the Engineer.	Job.	1		

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
ELV-52	20-Port Industrial Grade Gigabit Managed Ethernet Switch Supports 8*10/100/1000Tx Gigabit Ethernet with IEEE 802.3af/at Compliant PoE+ (30W/Port) and 12*100/1000 SFP Slots , Network Redundancy Support: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms) , Supports IPv4/IPv6, and DHCP Option 66/67/82 , Supports Modbus/TCP Protocol for Device Management and Monitoring , IGMP v1/v2 for Multicast Traffic Filtering , QoS (IEEE 802.1p/1Q), CoS/ToS to Increase Determinism , IEEE802.1Q VLAN for Easy Network Planning , Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL , Auto Warning by Exception through Relay Output , Operating Temperature Range – EOT: -40°C to 75°C ,5-Year Warranty , 45 Watt Series Industrial Single Output DIN Rail Power Supply - 24 VDC / 2.0 Amps for LNX-2012GN-SFP-T Network Switch complete in all respect.	Job.	4		
ELV-53	SFP MODULE Extended Operating Temperature 1310nm FP LD Data Rate: 1.25Gbps, NRZ Single +3.3V Power Supply RoHS Compliant and Lead-free AC/AC Differential Electrical Interface Compliant with Multi-Source Agreement (MSA) Small Form Factor Pluggable (SFP) Duplex LC Connector Compliance with specifications for IEEE-802.3z Gigabit Ethernet at 1.25 Gbps Compliance with ANSI specifications for Fiber Channel applications at 1.06 Gbps Eye Safety (Designed to meet Laser Class 1, complies with EN60825-1)	Job.	150		
ELV-54	Single-Mode Duplex Fiber Patch Cord	Job.	70		
ELV-55	Single-Mode Fiber Pigtail	Job.	70		
ELV-56	1METER CAT-6A, S/FTP LSZH Giga Speed patch cord with required connector at both ends:	Job.	800		
ELV-57	Supply ,Installation of 42U 800X1000mm Imported,Perforated Cabinet with two vertically mounted PDU 32A,220V in Rear and 2 Vertical Cable Managers in Front ,Including Fan Units Ip-20 Rated , Cold Rolled Steel Cabinet complete in all respect.	No.	4		
ELV-58	Supply ,Installation of 9U Imported,Perforated Cabinet with two vertically mounted PDU 32A,220V in Rear and 2 Vertical Cable Managers in Front ,Including Fan Units Ip-20 Rated , Cold Rolled Steel Cabinet complete in all respect.	No.	70		
ELV-59	12 port optical fibre patch panel MULTIMODE SC type including pigtails and splice tray with all installation accessories.	Job.	70		
ELV-60	6 core, 50/125 um, optical fibre multimode (SM) back bone cable in already installed conduit / trunking.	Rft.	10,000		

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ELV-61	SC-LC MULTI MODE 3 metre (10 ft.) longFibre Optic Patch Cord.	Job.	70		
	PUBLIC ADDRESS SYSTEM (Ref. Spec. Sec. 8001, 8341)				
ELV-62	Supply, installation and commissioning of speakers wiring,to be wired with PVC insulated,PVC sheathed twin core 2.5mm ² flexible shielded control wire in already laid 3/4" dia PVC conduit with all necessary fitting accessories,pull boxes,steel pull wires,complete in all respects.	Rft	130,000		
ELV-63	Supply, installation and commissioning of Table Top Digital Microphone, Uni-directional, condensor microphone with PTT (Push to Talk) and Status LED complete in all respect.	No.	4		
ELV-64	Supply,installation and commissioning of Premium-sound Cabinet Loudspeaker 30 Watt ABS enclosure,	No.	220		
ELV-65	Supply,installation and commissioning of CEILING LOUD SPEAKER	No.	1,600		
ELV-66	Supply,installation and commissioning of Digital Mixer Amplifier builtin 240W,	No.	100		
ELV-67	Supply,installation and commissioning of Digital Mixer Amplifier builtin 120W,	No.	30		
ELV-68	Supply,installation and commissioning of Call Station	No.	4		
ELV-69	Supply, installation and commissioning of Controller	No.	4		
	ACCESS CONTROL SYSTEM (Ref. Spec. Sec. 8001, 8341)				
ELV-70	Supply, installation, testing & Commissioning of Access Modular Door controller, Networkable type, 32 bit processor with following capacities - 04 Access Points/ Entrances - 04 Readers - Cardholder Capacity 100,000 - Event Capacity 100,000 including power supply, Maintanance Free Dry Battery & MS Enclosure with Mounting Plates complete in all respects as per the requirements as Approved By the Engineer.	Job	60		
ELV-71	Supply, installation, testing & Commissioning of Mifare Reader (ISO 14443 Type A) Read range 2" - 3" Dimension 57"L x 17"W x 09"D Back color bezel 32 bit CSN Wiegand Output complete in all respects as per the requirements as Approved By the Engineer.	Job	120		
ELV-72	Supply, installation, testing & Commissioning of Mifare DesFire EV2 8K, Card 38bit-OmniAssure and LuminAXS, Gloss white, Printable complete in all respects as per the requirements as Approved By the Engineer.	No.	2000		
ELV-73	Supply, installation, testing & Commissioning of Exit push buttons complete in all respects as per the requirements as Approved By the Engineer.	No.	100		

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ELV-74	Supply, installation, testing & Commissioning of Electromagnetic Locks for Access Control System with necessary hardware as specified for centralized security monitoring. - suitable for double door complete in all respects as per the requirements as Approved By the Engineer.	Job	100		
ELV-75	Supply, installation, testing & Commissioning of Magnetic Contact for Access Control System with necessary hardware as specified for centralized security monitoring. - suitable for single door complete in all respects as per the requirements as Approved By the Engineer.	Job	20		
ELV-76	Supply, installation, testing & Commissioning of Door Contacts for access Doors for monitoring door status with necessary hardware as specified for centralized security monitoring complete in all respects as per the requirements as Approved By the Engineer.	No.	130		
ELV-77	Supply, installation, testing & Commissioning of Manual Emergency Override key Switch complete in all respects as per the requirements as Approved By the Engineer.	No.	130		
ELV-78	Supply, installation, testing & Commissioning of High-security card printer with software and license including all components and accessories complete in all respects as per the requirements as Approved By the Engineer.	Job	1		
ELV-79	Supply & wiring of 02 No.s of Cat-6 cable for Access Control System in 25mm dia PVC conduit as per drawings including termination and tagging at both ends(controller to Reader & Lock complete in all respects as per the requirements as Approved By the Engineer.	Job	60		
ELV-80	Supply Installation Testing & Commissioning of Access Control Management Software with licenses for Server , Access Control System , Alarm Management , Operator Client , 2000 cards , required number of doors , along with Security Control system features a password protected user logon system suitable to interface with CCTV and Fire Alarm/ BMS of the building including all licensing and security requirements complete in all respects as per the requirements as Approved By the Engineer.	Job	1		
ELV-81	Supply Installation Testing & Commissioning of Separate machine as per the requirements of customized software/controller with following minimum specifications Intel Desktop Board , CPU Core i9 4.3 Ghz 11th generation , Intel based graphics card , 64GB RAM , SSD , Super Drive , Keyboard , Mouse , LED Screen , Operating System , Minimum 04 USB ports , 10/100/1000 Mbps LAN Card , CUP Core i52 complete in all respects as per the requirements as Approved By the Engineer.	Nos.	1		
ELV-82	Supply Installation Testing & Commissioning of latest generation Server with MS Win-Server Pre-Installed with latest specifications License & Media Kit, 3 Year Official Warranty & NBD Support with all necessary accessories & Monitor complete in all respects	Job	1		
ELV-83	Programming, Testing, Commissioning and Training of complete system Complete in all respect.	Job	1		

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VIDEO WALL					
B-ELV-84	Supply Installation, Testing & Commissioning of 55" FHD Video Wall Display Unit Narrow Bezel 0.44mm + 0.44mm = 0.84mm, 700Nits Brightness with Push and Pull Bracket for Video Wall including local base Structure and back Wall/ Entrance Aluminum Back Bracket for Each Screen Specifications: 55", 0.88mm Bezel, 24/7 use, 700nits Brightness, Depth 69.9mm,Razor-thin 0.44mm even bezel design delivers one immersive, seamless image, Wide viewing angles enable clear image presentation for more viewers in large spaces,700 nit brightness and non-glare panel provide high visibility 24/7,Picture enhancement technology delivers optimized visuals, Slim design creates neat environment and saves space, Color Expert Pro Mobile provides quick and easy video wall calibration using a mobile device, Multi-step factory calibration delivers content with near-perfect uniformity ,Meets industry standards, EMC class B compliant and ISTA-6 certified , Daisy-chain enables easy UHD content presentation without external equipment complete in all respects as per the requirements as Approved By the Engineer.	No.	18		
B-ELV-85	Supply Installation, Testing & Commissioning of Video Wall Multi-Screen Controller with 24 output Ports and 06 Input Ports complete in all respects as per the requirements as Approved By the Engineer.	Job	1		
B-ELV-86	Supply Installation, Testing & Commissioning of High Speed HDMI Cable(10 Meter) complete in all respects as per the requirements.	No.	40		
B-ELV-87	Supply Installation, Testing & Commissioning of Core i-9 16 Cores/30MB/32T/2.4GHz to 5.1GHz/65W) Computer System, 12th Generation,1 TB SSD 7200 RPM Hard Drive, 32GB DDR5 RAM, with Window-10 Pro Operating System with Intel UHD Graphic 630, all for Video Wall complete in all respects as per the requirements.	No.	1		
ELV-88	Integrated Audio & Video Conferencing with DSP and Audio System. Interactive Screen with Mic Tracking PTZ cameras for 20 persons including Touch Screen MultiMedia Audio Conference unit , System controller and Audio Processor with Basic software speakers with 120 Watts Amplifier for the Audience on the Back Seat , Wireless Hand held Microphone with reciver , Interactive Screen with WIFI connectivity for the Laptop/PC , PTZ Camera with al acceriors complete in al respect	Job	10		

Total Amount (Rs.) =