

BILL OF QUANTITIES							
CCTV SYSTEM							
COMMERCIAL COMPLEX AT SHIPRA VIHAR, UJJAIN							
	SOR item						
S.No.	Item No.		Description of Item	QTY.	UNIT	Rate (in Rs.)	Amt.
1	54.4	2 MP IP IR bullet camera	2 MP IP IR bullet camera with H.265 video compression				
	54.4.1	IP bullet camera	Supply, installation testing and commissioning of the IP bullet camera shall be equipped with a 1/2.9" 2MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 3.6 mm fixed lens, and a waterproof (IP66) enclosure. As a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 VDC power input. min. illumination:-0.08 lux color @ F2.0 (Color, 1/3s, 30 IRE),0 lux B/W with IR LEDs on @ F2.0) video compression :- H.265 +, noise reduction: 3DNR,backlight compensation :- BLC/HLC/DWDR, UL listed				
				30	Each	₹ 15,868.00	₹ 4,76,040
2	54.5	2MP IP varifocal MFZ dome camera	2MP IP varifocal MFZ dome camera				

	54.5.1	IP dome camera	Supply, Installation testing and commissioning of the IP dome camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 2.8 - 12 mm varifocal lens, and a waterproof (IP66) enclosure. As a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. illumination:-0.1 lux @F1.2, AGC ON, 0 lux with IR video compression :- H.264, noise reduction: 3DNR, backlight compensation :- BLC/HLC/DWDR, encode mode:- CBR/VBR (Fixed bit rate is CBR, Variable is VBR)				
				80	Each	₹ 16,280.00	₹ 13,02,400
3	54.21	16 channel NVR with 2 SATA	16 channel NVR with 2 SATA				
		16 channel NVR with 1080p	Supply, installation testing and commissioning of 16 channel NVR with 1080p real-time live view H.265/H.264MJPEG dual codec decoding up to 12 MP resolution preview & playback max 320 MBPS incoming bandwidth support 2 SATA HDDs up to 16TB, supports fisheye video de-warping in local and web user interface, supports visual or auditory notifications(a flashing light, bell, or siren) complete with UL certification				
				7	Each	₹ 84,721.00	₹ 5,93,047
4	54.23	32 channel NVR with 4 SATA	32 channel NVR with 4 SATA				

	54.23.1	32 channel NVR with 1080p	Supply, installation testing and commissioning of 32 channel NVR with 1080p real-time live view H.265/H.264 MJPEG dual codec decoding Up to 12 MP resolution preview & playback max 320 MBPS incoming bandwidth support 4 SATA HDDs up to 32TB, supports fisheye video de-warping in local and web user interface, supports visual or auditory notifications(a flashing light, bell, or siren) complete with UL certification				
				3	Each	₹ 1,40,084.00	₹ 4,20,252
5	54.27	8 port PoE switch with 2 SFP ports	8 port PoE switch with 2 SFP ports				
	54.27.1	8 port PoE switch with 2 SFP ports	Supply, installation testing and commissioning of 8 port PoE switch with 2 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP cat. 5, cat. 5e (100 m max.), full/half-duplex for 10/100 MBPS, full-duplex for 1000 MBPS, auto MDI/MDIX adjustment for all twisted-pair ports, switching capacity, 40 GBPS, maximum 64 bytes packet forwarding rate, 14.88 MBPS, ports 1 to 8 compliant with 802.3at				
				25	Each	₹ 23,024.00	₹ 5,75,600
6	54.28	24 port PoE switch with 4 SFP ports	24 port PoE switch with 4 SFP ports				

	54.28.1	24 port PoE switch with 4 SFP ports	Supply, installation testing and commissioning of 24 port PoE switch with 4 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP Cat. 5, Cat. 5e (100 m max.), full/half-duplex for 10/100 MBPS, full-duplex for 1000 MBPS, auto MDI/MDIX adjustment for all twisted-pair ports, switching capacity, 56 GBPS, maximum 64 bytes packet forwarding rate, 41.7mbps, Ports 1 to 24 compliant with 802.3 at				
				2	Each	₹ 51,329.00	₹ 1,02,658
7	38.17	Rack	Supply, installation testing and commissioning of wall mounting rack, for computer switches/Patch Panel etc complete as mentioned below :-				
	38.17.1	6U cabinet	6U cabinet with min. Dimensions 366X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement				
				20	Each	₹ 9,753.00	₹ 1,95,060
	38.17.2	9U cabinet	9U cabinet with min. Dimension 488X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement				
				5	Each	₹ 13,087.00	₹ 65,435

8	38.18	Floor mounting rack, base frame	Supply installation, testing and commissioning of floor mounting rack, base frame, top & bottom, front glass door with perforation, rear vented door, lockable & detachable side panels, 2 pairs 19" rail with depth members. fixed shelf, complete as mentioned below :-				
	38.18.4	42U cabinet	42U cabinet 1900X600X1000, floor mounting with power supply and fan, tray, equipment support angle, vertical cable manager, 12 point 5Amp. vertical power strip, earthing continuity kit, castors (1 set of 4 nos.), captive H/W set of 10, fan tray with 4 fan, for computer				
				1	Each	₹ 87,147.00	₹ 87,147
9	38.19		CAT6A/OFC Networking (10G Support)				
	38.19.1.1	CAT6A U/FTP Cable	Supply, Installation, lying, drawing of 4 Pair CAT6A U/FTP Cable having 23AWG conductor, LSZH Compliant with ETL & TIA/EIA- 568-C.2, Coupling Attenuation should be 45dB min @30-100 MHz 40-20 Log (f/100) @ 100-500 MHz, Should be certified by ETL/UL in existing conduit / wiring system as direction of EIC.				
				3000	Mtr	₹ 178.00	₹ 5,34,000
10	38.19.5	Optical fiber cable					
	38.19.5.2	12 Core OS-2 SM Cable	SITC of 12 Core OFC Cable with Armored Uni-Tube, 9/125µm, OS 2 Type, . Complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3, Telcordia GR-20, Uni-tube construction, Water Blocking Thixotropic Gel (Tube) Petroleum Jelly (Interstices) in indoor / outdoor ducts, direct burial and backbone cabling				
				500	Mtr	₹ 148.00	₹ 74,000

11	57.2	LED TV	Supply, installation, testing & commissioning of L.E.D. Television (4K L.E.D. Display O.S. Webos /Android or equivalent, minimum 50 Hz refresh rate Min. 20 W speaker, Wifi/bluetooth enabled, minimum 2 HDMI & 1USB Port, i/c remote and wall/table top accessories)				
	57.2.4	55"	55"	5	Mtr	₹ 50,997.00	₹ 2,54,985
12	47.1	UPS (1 phase input & 1 phase output)	Supply, installation, testing and commissioning of UPS with isolation transformer & battery for backup, minimum load power factor 0.8,power factor 0.99, having OVCD (over voltage cut-off device), having CVCF (constant voltage constant frequency, bypass parameters configurable, 2 stage charging(constant current/float charge), having temperature compensated charger, Fan speed control, digital signal processor controller, total harmonic distortion (current)- THDi (<10%@50% R Load, Input 1 phase voltage 230v, voltage range 110-300v, Output voltage (220AC/230AC/240AC ± 1%), Total harmonic distortion Voltage (THDv- <3% linear load, <5% nonlinear load, 90 % AC/AC efficiency, Over load capacity(105-110%: 3min, 111- 130%: 30Sec), operating temperature with full load 0-40°C,Communication features (RS232, USB com port, Intelligent slot(optional). UPS installation with all required material arrangements as				
	47.1.4.1	30 min backup	For 30 minute backup, min. 4000 VAH	1	Each	₹ 1,38,062.00	₹ 1,38,062

13	38.14	HDMI connector &braided cord	Supply, installation testing and commissioning of High-Speed HDMI corrosion-resistant connector & braided cable, Supports Ethernet, 3D, 4K video, computers and other HDMI-enabled devices Black as required to complete the job as mentioned below :-				
	38.14.3	5 Metre, HDMI cord	5 Metre, HDMI cord	5	Each	₹ 3,825.00	₹ 19,125
				TOTAL SOR			₹ 48,37,811
NON- SOR							
1	NON SOR		Providing & fixing of 8 TB hard disk of make Seagate/Toshiba/WD Capacity - 8TB, Form Factor - 3.5-Inch, Connector - SATA Transfer Rate - up to 215MB/s Disk Speed (RPM)- 5640 RPM or better Cache Size - 256MB or better				
				12	Each	₹ 25,000	₹ 3,00,000
2	NON SOR		Providing & fixing SFP Modules Gigabit of make HP/CISCO/DLINK/Netgear Small Form factor Pluggable (SFP) • Multi-Source Agreement (MSA) specification compliant • IEEE 802.3z standard • Supports cable distances of up to 1km or better • Hot pluggable - 1000mbps or better. • FDA, CDRH, TUV Laser Eye safety certified • TTL signal detect indicator • Metal enclosure for lower EMI				
				54	Each	₹ 9,900	₹ 5,34,600

3	NON SOR		Providing and fixing Power cable for Rack power and loose accessories of make legrand/Polycab/GM/Havells Copper power cable with required connectors and 6Amp and 16Amp switches for Rack power, cable must be suitable to take load of all the components connected in RACKs.				
				25	Each	₹ 4,500	₹ 1,12,500
4	NON SOR		Providing and fixing of Wireless keyboard and Mouse system for NVR Control of make Logitech/Dell/HP Full-sized keyboard with numpad Ergonomically designed 1600 DPI optical sensor Standard sized mouse and Multimedia Keyboard				
				5	Each	₹ 3,500	₹ 17,500
						TOTAL NON	₹ 9,64,600
				GRAND TOTAL NON SOR+SOR			₹ 58,02,411
				SAY			₹ 58,02,000

In Words Rs. - FIFTY EIGHT LACS TWO THOUSAND ONLY