

IIT RESEARCH PARK, CHENNAI - TENDER BILL OF QUANTITIES FOR CCTV AND ACCESS CONTROL SYSTEM

Sl.No	DESCRIPTION	Qty	Unit	SUPPLY (INR)		INSTALLATION (INR)	
				Rate	Amount	Rate	Amount
III.	Supply,Installation,Testing and Commissioning of following items in line technical specifications of the tender documents.						
1	IP BASED HD CAMERA						
a	Indoor HD bullet camera with IR with 1/4-inch CMOS, 720p, Sensor pixels 1280 x 960 with IR LED @ 30mts ,Sensitivity-0.24 lx (color),0.05 lx (mono), H.264 (MP); M-JPEG video compression, Motion, tamper and audio detection, Dyamic range, Electronic shutter, White balance, BLC, Privacy Masking, Fixed 3.0 mm lens , ONVIF etc	31	Nos		-		-
b	Out door Bullet camera with IR , 1/4-inch CMOS, 720P, Total sensor pixels 1952 x 1092 (2MP) , Built-in IR illuminator with 30 mts viewing distance, Fully configurable quad streaming, Regions of interest and E-PTZ, Sensitivity-0.24 lx,0.0 lx (IR), Dynamic range, Electronic shutter, BLC, Intelligent defog, Privacy Masking- Four independent areas, fully programmable, Audio Streaming, Varifocal 3 to 10 mm lens , ONVIF Profile , IP66 etc.	15	Nos		-		-
	For Existing campus						
c	Indoor HD bullet camera with IR with 1/4-inch CMOS, 720p, Sensor pixels 1280 x 960 with IR LED @ 30mts ,Sensitivity-0.24 lx (color),0.05 lx (mono), H.264 (MP); M-JPEG video compression, Motion, tamper and audio detection, Dyamic range, Electronic shutter, White balance, BLC, Privacy Masking, Fixed 3.0 mm lens , ONVIF etc	13	Nos		-		-
d	HD PTZ Camera with 1/4" progressive scan Exmor CMOS, 1080p, Effective pixels 1984 (H) x 1225 (V) approx. 2.43M pixels, 30x Optical Zoom (4.3 mm-129 mm), 16X Digital Zoom, Minimum Illumination- Sense up on- Color: 0.02 lux , B/W: 0.004 lux, With infrared (IR) 0 lux , WDR, Intelligent Dynamic Noise Reduction, BLC, White Balance, Mechanical switchable IR filter, Pan Range 360° continuous, Tilt Range 0°-90°, Pan/Tilt Modes - Pan: 0.1°/s - 240°/s; Tilt: 0.1°/s - 120°/s, Presets 256 , Tours, IR distance 180 m (590 feet) (Detection), Audio- 1/1 Channel In/Out, Micro SD card support, 24 individually configurable privacy masks, Simple single cable installation with POE+ support for indoor/Outdoor application, Defog, with wiper, IP66 , ONVIF Profiles S etc.	4	Nos		-		-
d	1.2 Mtr height wall mounted GI bracket suitable to install PTZ camera inclusive of all necessary civil work.	4	Nos		-		-
2	SERVER ,NETWORK STORAGE UNIT						

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				Rate	Amount	Rate	Amount
a	Quad Core Intel Xeon E5640 2.66 GHz or better, 8 GB of RAM or better, 64 bits operating system, 80 GB SATA II hard drive or better for OS and Security Center applications, Standard SVGA video card, 1024 x 768 or higher screen resolution, 100/1000 Ethernet Network Interface Card, DVD ROM Drive & Network storage unit shall be connected to the IBMS domain Ethernet switch using 10/100/1000Base Ethernet interface, shall be sized to accommodate continuous video storage for 30 days as per the requirements be low or 52TB (Tera Bytes) whichever is higher, 12fps for normal video 25 fps for alarm video with configurable prealarm and post alarm video duration, shall be record a minimum of 15 minutes pre alarm and 15minutes of post alarm video storage at 25fps, Alarm duration shall be 1 hour per day per camera for storage sizing purposes, the storage unit shall be provided with RAID 6 storage data protection against hard disk failure, the hard disks shall be hot swappable, shall have built in automatic defragmentation routines to avoid data getting fragmented, shall record H.264 Compressed video from Cameras, shall have redundant hot swappable power supply and fan units, shall support tagging of video, shall support a recording through put of 165Mbps to 330 Mbps of read through put at all times, shall be no limitation on the number of cameras being used with the storage unit for recording or reading activity, shall be fully manageable using the Ethernet interface.etc., as per the technical specifications.	1	Nos			-	-
3	MONITOR STATION						
a	42 " LED Monitor - Desk / wall mounted	3	Nos			-	-
4	NETWORKING COMPONENTS						
a	CAT6 I/O point with necessary fixing accessories, (complete set)	63	Nos			-	-
b	Single Port Face Plate on wall with necessary fixing accessories	63	Set			-	-
c	MS Mounting Box with powder coating suitable to mount on wall with necessary fixing accessories	63	Set			-	-
d	CAT 6 Patch Chords - 5M length at rack side	63	Nos			-	-
e	CAT 6 Patch Chords - 2M	0	Nos				
f	CAT 6 POE Patch Panel- Fully Loaded						
g	24 PORT POE SWITCH	17	Nos			-	-
h	24 PORT POE plus for PTZ camera	1	Nos			-	-
5	ACTIVE COMPONENTS						
a	Supply, installation and testing of 24 port L2 10/100 Base-T Fully managed switch, with 22Nos autosensing 10/100 Base-T port and 2Nos Dual-personality SFP port , Switch Should be life time warranty till the customer own. (per block each and gate)	7	Nos			-	-
6	NETWORK RACK						
a	12U Wall Mountable powder coted Rack with 3x5A Power Manager, , 1 position fan, min 1 nos of shelf, Front Glass door with Lock & key at respective floor WxDxH (600 x 450 x 635 mm).	11	Nos			-	-

Sl.No	DESCRIPTION	Qty	Unit	SUPPLY (INR)		INSTALLATION (INR)	
				Rate	Amount	Rate	Amount
b	42U, 600 x 1000 mm floor Mountable powder coted Rack with 6x5A Power Manager, 2 Horizontal Cable Manager, 4 position fan, min 3 nos of shelf, Front Glass door with Lock & key at IBMS room.	1	Nos		-		-
7	COMMUNICATION CABLE						
a	Cat 6 copper flexible shielded cable for communication.(test certification to be provided by contractor.)- Blue color	6,500	Mtrs		-		-
b	25mm dia PVC 2 mm thick conduits with all necessary fixing accessories as per site condition. - Blue color.	6,500	Mtrs		-		-
Sub total amount including all taxes							

	Supply,Installation,Testing and Commissioning of following items in line technical specifications of the tender documents.						
1	ACCESS DOOR CONTROLLER						
a	1 Door controller (2 Reader) Networkable type, 32 bit processor, 55000 card holder capacity and 45000 event memory with battery back up to power the EM Lock, Card Reader etc., as specified in the Tender Specifications for (IBMS room)	1	nos		-		-
b	2 Door controller (4 Reader) Networkable type, 32 bit processor, 55000 card holder capacity and 45000 event memory with battery back up to power the EM Lock, Card Reader etc., as specified in the Tender Specifications for (Boom Barriers+tripod)	2	nos		-		-
2	ACCESS CARD READERS						-
a	Long Range Smart Card Readers for outdoor boom barriers as specified in the Tender Specifications	3	Nos		-		-
b	Smart Card Readers for access door and flap barriers as specified in the Tender Specifications	2	Nos		-		-
c	Exit push button for service corridor access	3	Nos		-		-
3	BIO METRIC READER						
a	Electromagnetic Locks for Access Control System with necessary hardware as specified for centralized security monitoring. - suitable for double door	1	Nos		-		-
b	Magnetic Contact for Access Control System with necessary hardware as specified for centralized security monitoring.	1	Nos		-		-
c	Door Contacts for access Doors for monitoring door status with necessary hardware as specified for centralized security monitoring.	1	Nos		-		-
4	ACCESS CARDS						-
a	Smart Cards as specified in the Tender Specifications	10	Nos		-		-
5	FLAP BARRIER & TRIPOD						-
a	2 lane out door type, stainless steel housing Tripod (500 mm walk way) with dummy boxes , control units and accessories located at security/circulation entrance as per the drawing configuration and specification and suitable for mounting/ housing the access controllers/ readers as per requirement.	2	Nos		-		-

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6	BOOM BARRIER						-
a	Supply, Installation, Testing and Commissioning of 6.5 Mtr motorized Retractable Boom Barrier integrated to the access control for operation for 4 wheeler movement as specified in the Tender Specifications	3	Nos		-		-
7	CABLES & ACCESSORIES						-
a	8 core x 1.0 sq mm multi strand, shielded ATC, PVC Sheathed Cable to connect Card Readers to controller as specified in the Tender Specifications	200	Nos		-		-
b	4 core x 1.0 Sq mm multi strand, ATC, PVC Sheathed Cable to connect access controllers in as specified in the Tender Specifications	200	Mtrs		-		-
c	2 core x 1.0 Sq mm multi strand, ATC, PVC Sheathed Cable to connect access controllers in as specified in the Tender Specifications for power supply	75	Mtrs		-		-
d	25 mm dia MS Conduit on wall and celing with suitable necessary fixing accessories for FAS cabling.	200	Mtrs		-		-
11	OPERATOR WORK STATION						
a	Operator Workstation with latest intel micriprocessor, latest, 4 GB RAM, 1 TB HDD, 2.8 Ghz, Wirless keyboard, mouse, windows Operating system Software SQL with MS Office Software latest & Licenced Anti-Virus Software LED Monitor - 21 inch , DVD Writer, with A4 Size Laser Jet Printer for attendance	1	Nos		-		-
12	VISITOR PASS MANAGEMENT						
a	Visitors management software as per technical specfication and system PC Operator Workstation with latest intel micriprocessor, latest, 4 GB RAM, 1 TB HDD,3Ghz or above, Wirless keyboard, mouse, windows Operating system Software SQL with MS Office Software latest & Licenced Anti-Virus Software TFT Monitor - 21 inch , DVD Writer, with A4 Size Laser Jet Printer- Also, the PC shall be supplied with Web Camera.	1	Nos		-		-
Sub total amount including all taxes							
GRAND TOTAL AMOUNT INCLUDING ALL TAXES							