

TECHNICAL SPECIFICATIONS OF NEW IP CAMERA SYSTEM (42-Cameras) WITH 2-YEARS WARRANTY

SL NO	DESCRIPTION	TECHNICAL SPECIFICATIONS	QTY Reqd	(Nos/ Mtr)
1	64-CH NVR (CP-UNR-4K664R8-EI)	* 32-channel 1080p self-adaptive decoding capability. * Max 1024/1024/800Mbps incoming/recording/outgoing bandwidth. * Supports N+M cluster. Support Raid0/1/5/6/10 & Support Multi-brand network cameras. * AI by NVR: 4-channel face detection and recognition; 8-channel metadata; 24-channel perimeter protection. * Support AI by Camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting. * Video Compression-H.265; Smart H.264+; H.264; MPEG4; MJPEG. * ANPR by Camera (for 20 or more Number of Channels). * Should contain Interface Ports: 4 USB Ports, 1 x A/B RS485, 1 RS232, 1 eSATA port, 4 HDMI Ports, 2 VGA Ports. * Should support 8 SATA HDDs with up to 16TB Each.	1	Nos
2	2MP - 25x PTZ Outdoor IP Camera (Day/Night)	* 1/2.8" 2MP CMOS Image sensor (0.9071 centimeters) * Max. 25/30fps@1080P, 25x Optical, WDR(120dB), 3D-DNR, Day/Night (ICR), ROI, Defog, AWB, BLC, HLC * Support Starlight Function * Up to 300 presets, 5 auto scan, 8 tour, 5 pattern * IR Range of 100 Mtr. * Support Face Detection, SMD Plus * Max 200° /s pan speed, 360° endless pan rotation * Built-in 2/1 alarm in/out, IP66, Support PoE+	1	Nos
3	4MP Outdoor Bullet IP Camera (IR 30mtr) 3.6mm	* 1/3" 4MP PS CMOS Image Sensor(0.84667cm) * Max. Outputs 4MP (2560 x 1440)@25/30 fps. * Instastream and H.264 dual-stream encoding	3	Nos
4	4MP Outdoor Bullet IP Camera (IR 30mtr) 2.8mm	* DWDR, Day/Night(ICR), 3D-NR, ROI, AWB, AGC, BLC, HLC * IR Range 30 Mtrs, IP67	1	Nos
5	2MP Outdoor Bullet IP Camera (IR 30mtr) 3.6mm	* 1/2.8" 2MP PS CMOS Image Sensor (0.9071cm) * Max. 2MP (1920 x 1080) @25/30 fps * Instastream and Smart H.264+ dual-stream encoding	9	Nos
6	2MP Outdoor Bullet IP Camera (IR 30mtr) 2.8mm	* DWDR, Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC * IR Range of 30 Mtrs, IP67, PoE	3	Nos
7	2MP Indoor Dome IP Camera (IR 30mtr) 3.6mm	* 1/2.8" 2MP PS CMOS Image Sensor (0.9071 centimeters) * Max. 2MP (1920 x 1080) @25/30 fps * Instastream and Smart H.264+ dual-stream encoding	8	Nos
8	2MP Indoor Dome IP Camera (IR 30mtr) 2.8mm	* DWDR, Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC * IR Range of 30 Mtrs, IP67, PoE	11	Nos
9	2MP Indoor Dome MIC IP Camera (IR 30mtr) 3.6mm	* 1/3.2" 2MP PS CMOS Image Sensor (0.7937cm) * Max. 2MP (1920 x 1080) @25/30fps * Instastream, H.265 and Smart H.264+ dual-stream encoding * DWDR, Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC * Support Built-in Mic * IR Range of 30 Mtrs, IP67, PoE	6	Nos
10	16TB HDD (Surveillance Grade)	Reputed Brand (SeaGate OR Western Digital)	2	Nos
11	10port Gigabit POE Switch with 2-Uplink Ports & 8-POE Network Ports (with 2 Ports range Extend capability)	* 08 1000Mbps RJ45 ports; Max. 30W Output in one Port. * Should support IEEE802.3i/802.3u/802.3x/802.3af/802.3ab * 02 1000Mbps uplink; Transmission Distance: 0-100m. * Surge Protection for Common mode/RJ45 port upto 4KV. * 0-100m/1000Mbps; and 2 Ports Max. 250m/10Mbps via under Extend mode.	9	Nos
12	CAT6 Cable	Reputed brand/ D-link or equivalent.	2700	Mtr
13	CAT6 Cable - Outdoor Heavy Duty	Reputed brand/ D-link or equivalent.	300	Mtr
14	1" PVC round Conduit with Collars/Elbows/Clamps (White & Black)	Reputed brand having ISI Marking.	3000	Mtr
15	Camera Stand - Outdoor (2Feet Extendable)	Rust-proof, entendable from 1feet upto 2feet.	10	Nos
16	55" LED TV, Bezel-less Screen	3HDMI Ports, 3840x2160 pixels resolution, 60Hertz refresh rate, WiFi & Bluetooth connectivity.	1	Nos
17	4x4 PVC Box	Reputed brand OR have ISI/ISO Marking	20	Nos
18	6U Rack 500-Depth	Reputed brand OR have ISI/ISO Marking	1	Nos
19	2U Rack 350-Depth	Reputed brand OR have ISI/ISO Marking	3	Nos
20	2U Rack 350-Depth, Outdoor Water-proof	Reputed brand OR have ISI/ISO Marking	3	Nos
21	HDMI Cable (15 Mtrs)	Reputed brand OR have ISI/ISO Marking	1	Nos
22	Wireless Mouse	Reputed brand/ Logitech or equivalent. 10Mtr range.	1	Nos
23	RJ45 Connector	Reputed brand OR have ISI/ISO Marking	1	Pkt

24	Installation & Configuration, including laying conduits/cables, Splicing, digging wherever required.	The workmanship for Installation & Configuration of the entire CCTV System should be of highest quality.	1	Nos
----	--	--	---	-----

**Terms and conditions:**

- 1 Hikvision products are not acceptable as per Government of India Guidelines.
- 2 **NVR, Gigabit POE Switch and Cameras, all these three spares should be from the same OEM.**
- 3 The CCTV System installed and commissioned **should be capable to store 90days of uninterrupted video footage for all the 42 cameras** . 10% of the Purchase Order value will be withheld upto 90days from the date of commissioning OR till this recording capability is proven, whichever is earlier.
- 4 All other materials supplied Civil/Electrical/Cables/Conduit etc should be of reputed brand OR have ISI/ISO Marking.
- 5 The workmanship for Installation & Configuration of the entire CCTV System should be of highest quality.
- 6 The supply & installation of the CCTV System shall be on **Turn-Key basis**. The full function of the system should be tested and proven to user on the date of commissioning. Commissioning report has to be submitted after obtaining counter-sign of the User Department.
- 7 **All the accessories supplied and installed and the installation work shall be given On-site warranty by the firm for 2-years from the date of Commissioning.**  
SERVICE BACK-UP:  
(a) In case of breakdown during warranty, the firm should attend with necessary spares within 24 hours of being notified about the breakdown and set right the CCTV System irrespective of whether it is Holiday or Sunday.  
(b) For this reason, **only firms based at Bangalore City OR having at least one service centre at Bangalore City will be eligible.**  
(c) Proof of the firm being based at Bangalore City or having its service centre at Bangalore City should be provided by the firm COMPULSARILY (License/GST Registration etc).
- 9 All the line Items should be quoted along with the Unit Price (Per piece price).
- 10 Post the warranty period of 2-years, the **firm should be ready to enter into AMC for the next 2-years with annual AMC cost not exceeding 8% of this Purchase Order** value. During the AMC period, spares should be supplied by the firm at the rates quoted in the current bid. Taxes as applicable at the time of Service.
- 11 The schematic digram/layout (both soft copy & printed copy) of the whole installation should be provided by the firm on the Commissioning date. The digram shall contain details of all wiring/cabling and accessories along with IP Addresses and Passwords.
- 12 Brochure/details of all materials and spares which is quoted for, should be enclosed in their bid by all firms participating in the tender.
- 13 Electric power will be provided by BEML Ltd at the installation site. All other requirements including tools, appliances, ladders, safety ropes/belts etc should be arranged by the firm. BEML will not be responsible for providing any other facility for the installation & commissioning, apart from the electric power.
- 14 The installation & commissioning work should not disrupt or damage other existing facilities and fixtures. The firm shall bear the cost of any such disruption/damage.
- 15 PERFORMANCE BANK GUARANTEE (PBG): A bank guarantee for 10% of the total Purchase Order value has to be furnished by the firm within 1-month from the date of receipt of Purchase Order. The PBG should cover the agreed warranty period (with additional 3-months as claim-period) through Scheduled commercial bank Authorized by RBI.
- 16 All the workmen employed for installation & commissioning should be covered under ESI/Workman Compensation Policy, & necessary safety precautions should be taken compulsorily by the firm while carrying out the work at heights, or near power lines etc....
- 17 TRAINING: The firm should arrange the training for the operation & maintenance of the CCTV System to BEML personnel at our location up to the satisfaction of BEML at free of cost.
- 18 For proper understanding of the requirement of this tender, firms participating in the tender should **COMPULSORILY visit the installation site** physically and contact the Security (User) department before submitting their quotes.
- 19 During the Warranty Period, periodic Servicing, Cleaning, Checking of the entire CCTV System should be **carried out once in a month.**