

Technical Specifications for IP Camera

Lens	2.8mm to 12mm
Device	2.0 Mega Pixels CMOS Sensor
Effective Pixels	2 MP:1600*1200,1MP:1280*720,DI:640*480
Functions	Yes(Motion Detection)
Electronic Shutter	1/5-1/15,000 sec
Ble	Yes
Agc	Auto
White Balance	Auto
S/n ratio	>50db
Video Compression	H.264,MJPEG Selectable
Picture Resolution	2MP:1600*1200,H D:1280*720,D 1:704*576
IR Cut	YES
IR sensitivity	YES
SD Card	NO
B/W	Yes
Size	1/3inch
Min Scene illumination	0 LUX(IR ON)
LINUX System	Internal Linux system
Bit rate	80k-2.0Mbps
Image Frame rate	15FPS
Audio Compression	G.726
Two way Audio Support	Yes
Alarm I/O	1 channel in/out put
Casing	Wall bracket
Network	Ethernet (10/100 Base-T),RJ-45 connector

Protocol	TCP,UDP,HTTP,FTP,SMTP,DHCP,DNS,ARP,ICMP,POP3,NTP,RTP and RTCP
Web browser	Microsoft internet explorer 6.0 above
SDK	SDK-H
Viewing Angle	33deg-78 (Horizontal)
Security	Three level administrator,Password Protection
Temperature	10to 50 deg(14-122degF)
Humidity	-10 to -85 deg
Power	POE (IEEE802.3af)
Physical	Dimension
Approvals	CE, FCC

NVR 16 Channel Specifications:

Chip		Hi3531
Memory		512 MB DDR3
Operating System		Linux
Network Input Bandwidth	64MBPS	
Video & Audio input	IPC input	Maxx16ch DI@30 fps(2 Mbps) 16 ch 720P@30fps(4 Mbps)/8ch 1080P#30fps(8Mbps) / 16ch
Video & Audio Output	CVBS Output VGA HDMI	1Ch, BNC(1.0Vp-p,75ohms) 1 Ch,1920x1080, 1280x1024, 1280*720, 1024x768,800*600 Resolution Optional 1.3a std 1920x1080,1280x1024,1280x720,1024x768,800x600 Resolution Optional
Audio Decode	Audio Decode standard Audio Bitrate	G.711A 64Kbps
Video Decode	IP Channel Resolution Video Bitrate Video Bit rate std	Main Stream: 5MP/3MP/1080P/UXGA/720P/VGA/4CIF /DCIF/2CIF/CIF/QCIF Minor Stream not above 4CIF Average:D21 2Mbps,720P 4Mbps,1080P 8Mbps H.264(Max High Profile@Level4.2)
Others	Voice Intercom Image capture	Two way Intercom Supports JPEG Image Capture
HOD	SATA Max capacity	2 Pcs Unlimited
External	Network USB Alarm input Alarm output RS-485 Size	1pc,RJ45:10M/100M Ethernet 2 Pcs 8channel 3channel 1Pc IU,360x250x44mm
Weight	2KG with out HOD	Playback.backward playback,fastforward/backward playback
Power	DC +12V 4A	
Work	Temperature Humidity	-10Deg to +55 deg 10%-90%
	Power consumption(with out HDD & Camera's)	20W(with out HOD)

QUALIFICATION CRITERIA:

'Bidder' means the Original Equipment Manufacturer / System Integrator who is offering the Security & Surveillance CCTV based system for this tender.

'OEM' means the Original Equipment Manufacturer whose equipment is being offered by the Bidder for this tender.

The Bidder shall fulfil the following qualification criteria, which shall be backed by necessary documents.

SNo	Description
1.1	<u>Equipment:</u> Bidder should be either Original Equipment manufacturer or should be Authorized System Integrator partner having direct purchase and support agreement with the OEM for CCTV based system quoted for this tender. In case the bidder is a system Integration Partner of the Principal Manufacturer, a valid certificate from the Principal Manufacturer clearly stating the relationship with the Partner and authorization to the Partner to quote for this specific tender is to be furnished. The Certificate /Authorization Letter specific to this tender must be enclosed by Authorized Representative of the OEM with the Technical Bid.
1.2	The Bidder shall have back-to-back agreement with the OEM to provide service and spare support for at least 3 years for the offered solution. Bidder shall give an undertaking to provide the agreement on award of contract.
1.3	Bidder should have experience of successful execution of project involving Security & Surveillance CCTV based system during preceding 3 years from tender due date, catering to more than 20 Security & Surveillance CCTV based system in at least one project. The complete project mentioned should be of total solution and infrastructure setup, training and support. The work order should be on the name of the bidder. The order copy of above mentioned projects and successful completion/ performance certificate from the customer along with the offer is to be submitted. Experience in installation of Security & Surveillance CCTV based system in any Government/PSU is preferable.
1.4	Vendor shall clearly mention all customer references with number of equipment's supplied and year of commissioning of Security & Surveillance CCTV based system operating anywhere in India such as Name of the unit / company, Name of the contact person; Address/ e-mail id, Mobile and Office phone of contact person. Month & year of commissioning of the Security & Surveillance CCTV based system, Capacity, Design, Configuration, System Guarantee, Service Support provided etc. for verification by BHEL, R&D directly.
1.5	The Bidder should have Registered and Incorporated office in India for last 3 years. Alliance/liaison office in India shall not be accepted.
1.6	Bidder and OEM should have a clean track record, i.e. the Bidder / OEM / any group company should not have been blacklisted by any PSU/Govt./Quasi Govt./Govt. Undertaking companies in India during the last three years. To this effect, a declaration should be given by the bidder.
1.7	All the main equipment offered by the Bidder shall be from single OEM only.
1.8	A bidder shall submit only one bid of a single OEM for CCTV systems.
1.9	The OEM should have support infrastructure in spares for the OEM components stocking, technical support in Hyderabad or nearby to provide quick after sales support. Specify the OEM Spares logistics locations in India with address.
1.10	Bidder should have professionals with necessary expertise in the quoted products and also having experience of implementing / maintaining CCTV based system.
1.11	Bidder should fulfil all statutory and safety requirements for personnel engaged while executing the contract. Due to noncompliance of the applicable statutory provisions, if BHEL has to incur any expenditure in this regard the same will be compensated by the Bidder.

(Relaxation of the above pre-qualification and eligibility criteria will not be entertained under any circumstance. Hence bidders who do not comply with one or more of the above eligibility criteria need not apply.)

TECHNO-COMMERCIAL TERMS AND CONDITIONS	
2.1	Installation of CCTV based system with Power supply, Connectivity to the equipment's including termination, data connectivity & configuration of the equipment, etc.
2.2	Development & Customization of Software and reports as per BHEL requirements.
2.3	Software installations and configuration.
2.4	All relevant software upgrades should be provided during the warranty period at free of cost shall be handed over to BHEL for future maintenance
2.5	Any other items required to complete the system in full is under vendor's scope. Freight, handling and packing charges, transit insurance, installation.
2.6	Spares & Software/Firmware Updates
2.7	It is acceptable only after successful supply, installation, and commissioning of the entire equipment's, its interconnectivity, and the expected performance of the system in all respects to the satisfaction of BHEL Engineers as per the scope of the contract. The completion of installation and commissioning shall be as per the mutually agreed ATP (Acceptance Test Plan) and shall be certified by BHEL. The installation and commissioning shall be completed in all respects within 6 weeks from the date of completion of total supplies which shall be made accordingly.
2.8	Delivery & Project Implementation Schedule The Bidder shall be responsible for timely delivery, installation, & commissioning of all the Hardware/software given in the scope of supply/work at the BHEL's premises. All the Hardware/software shall be delivered such that the installation and commissioning of the CCTV based system shall be completed within time specified by BHEL. In case of delay in delivery schedule, standard LD clause of BHEL will be imposed.
2.9	Ordered items shall be offered for pre-dispatch inspection before shipment. BHEL reserves the right to inspect the components or give dispatch clearance based on Bidder's inspection and other reports.
2.10	All equipment supplied and installed at the stipulated locations shall be new and conforming to the contract technical specifications. Relevant test certificates, certificate of newness of equipment and any other statutory documents should be furnished.
2.11	Complete technical literature including specification, catalogue pertaining to the products as required, and any relevant bench mark Results/test results are to be submitted along with technical offer.
2.12	SHIFTING OF EQUIPMENT FROM ONE LOCATION TO OTHER: BHEL reserves the right to relocate the equipment. Supplier is responsible for Shifting of equipment from one location to another within BHEL campus and to integrate the system.
2.13	TRAINING Training of BHEL personnel shall be part of the supply. During installation at BHEL, the associated BHEL coordinators shall be guided on the system usage. Exhaustive and detailed maintenance training including the backup maintenance etc. shall be provided to BHEL Engineers to enable BHEL to carry out maintenance.

PRICE BID FORMAT

Sl. No.	Item Description	Qty	Unit of Measurement	Unit Price	Total Price	Applicable Taxes in %	Tax Amount in Rs.	Total Price including Taxes
1	IP Bullet camera, 2MP 2.8 to 12mm lens	16	Nos					
2	NVR 16 Channel	1	Nos					
3	Fibre 6 core armored - single mode	1000	Meter					
4	Cat 6 Cable	200	Meter					
5	Cat 6 armored Cable	100	Meter					
6	8 port POE Switch 10/100	16	Nos					
7	2TB HDD	2	Nos					
8	Syntex box	16	Nos					
9	Media Converter	2	Nos					
10	Termination Box	2	Nos					
11	Sc-sc Patch cords	2	Nos					
12	Fibre Laying charges	1000	Meter					
13	Splicing	2	Nos					
14	Installation Charges	1	Set					
15	Total cost to BHEL							

Note:

- a This Price Bid Format shall be enclosed with technical bid without prices
- b This Price Bid Format shall be enclosed with price bid with prices
- c Both a & b shall be signed & stamped by authorised.