

Organisation Details	Buyer Details
<b>Type:</b> State Local Bodies <b>Ministry:</b> - <b>Department:</b> Urban Development Department <b>Organisation Name:</b> N/A <b>Office Zone:</b> Aurangabad Smart City Development Corporation Limited (ASCDCL)	<b>Name:</b> Pushkal Shivam <b>Designation:</b> Senior Consultant <b>Contact No.:</b> - <b>Email ID:</b> buycon1.amc.mhrt@gembuyer.in <b>GSTIN:</b> - <b>Address:</b> ASCDCL War Room, Ambedkar Research Centre, Near Amkhas, MAIDAN, AURANGABAD, MAHARASHTRA-431001, India

Financial Approval Detail	Paying Authority Details
<b>IFD Concurrence:</b> No <b>Designation of Administrative Approval:</b> Chief Executive Officer <b>Designation of Financial Approval:</b> Chief Executive Officer	<b>Name:</b> Moreshwar Ramchandra Thatte <b>Designation:</b> Chief Finance Officer <b>Email ID:</b> pao1.amc.mhrt@gembuyer.in <b>GSTIN:</b> - <b>Address:</b> ASCDCL War Room, Ambedkar Research Centre, Near Amkhas, MAIDAN, Aurangabad, MAHARASHTRA-431001, India

Seller Details	
<b>Company Name:</b> COMPUTER WORLD <b>Contact No.:</b> 09422400858 <b>Email ID:</b> computerworldsatara@yahoo.com <b>Address:</b> 150 KESARKAR PETH, SATARA, 150 KESARKAR PETH SHAHU CHOWK, SATARA, Satara, MAHARASHTRA-415002, - <b>MSME verified:</b> Yes <b>MSE Social Category:</b> General <b>MSE Gender:</b> Male <b>GSTIN:</b> 27AADFC9374Q1ZN	

Product Details							
#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Price (Inclusive of all Duties and Taxes in INR)
1	CP PLUS 2MP BULLET CAMERA	Camera for CCTV System	CP-UNC-TS21PL3	HSN not specified by seller	65	pieces	383,500
2	Samsung Flip 2 WM55R	Professional Large Format Display	SAMSUNG WM55R	HSN not specified by seller	4	pieces	1,276,000
3	CP PLUS 2MP DOME CAMERA	Camera for CCTV System	CP-UNC-DS21PL3	HSN not specified by seller	15	pieces	85,500
4	4U DVR/ NVR Network Rack	Networking/Server Rack	CP-MA-RK5540-4U	HSN not specified by seller	5	pieces	22,250
5	Panasonic 1+9 Multiparty Full HD Video Conferencing End Point	Video Conferencing End Point	KX-VC1600 HDVC-1903	HSN not specified by seller	1	pieces	1,078,000
6	C.P.PLUS Wall Mounted IP Camera Installation & Commissioning Charges	Installation & Commissioning charges for CCTV Cameras (Accessories)	INSTLATION	HSN not specified by seller	80	pieces	36,000

7	Panasonic Point to Point upgradable Video Conferencing End Point	Video Conferencing End Point	KX-VC1000 HDVC1101A-1Y	HSN not specified by seller	7	pieces	2,408,000
8	CAT 6 Cable for cctv	CAT 6 Cable for Indoor use	CAT 6 Cable	HSN not specified by seller	8,000	meter	208,000
9	LARGE FORMAT DISPLAY	Professional Large Format Display	SAMSUNG QB75R (5 YEARS WARRANTY)	HSN not specified by seller	1	pieces	324,000
10	CP-PLUS PVC Pipe Above Surface Laying & Installation Charges For Cables	Laying & Installation Charges for Cables (with or without conduit) Suitable for CCTV System(Accessories)	Laying & Installation	HSN not specified by seller	8,000	meter	144,000
11	PROFESSIONAL LARGE FORMAT DISPLAY	Professional Large Format Display	SAMSUNG QB55R (5 YEARS)	HSN not specified by seller	7	pieces	973,000
12	NETWORK VIDEO RECORDER	Video Recorder for CCTV System	CP-UNR-4K4162-V2	HSN not specified by seller	5	pieces	87,500
Total Order Value (in INR)							<b>7,025,750</b>

### Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Name: Pushkal Shivam Designation: - Email ID: buycon1.amc.mhrt@gembuyer.in Contact: - GSTIN: - Address: ASCDCL War Room, Ambedkar Research Centre, Near Amkhas Maidan, AURANGABAD, MAHARASHTRA-431001, India	Samsung Flip 2 WM55R	-	4	10-Aug-2020	25-Aug-2020
		Panasonic 1+9 Multiparty Full HD Video Conferencing End Point	-	1	10-Aug-2020	25-Aug-2020
		Panasonic Point to Point upgradable Video Conferencing End Point	-	7	10-Aug-2020	25-Aug-2020
		LARGE FORMAT DISPLAY	-	1	10-Aug-2020	25-Aug-2020
		PROFESSIONAL LARGE FORMAT DISPLAY	-	7	10-Aug-2020	25-Aug-2020
		CP PLUS 2MP BULLET CAMERA	-	65	10-Aug-2020	25-Aug-2020
		CP PLUS 2MP DOME CAMERA	-	15	10-Aug-2020	25-Aug-2020
		NETWORK VIDEO RECORDER	-	5	10-Aug-2020	25-Aug-2020
		4U DVR/ NVR Network Rack	-	5	10-Aug-2020	25-Aug-2020
		C.P.PLUS Wall Mounted IP Camera Installation & Commissioning Charges	-	80	10-Aug-2020	25-Aug-2020
		CAT 6 Cable for cctv	-	8,000	10-Aug-2020	25-Aug-2020
CP-PLUS PVC Pipe Above Surface Laying & Installation Charges For Cables	-	8,000	10-Aug-2020	25-Aug-2020		

### Product Specification for CP PLUS 2MP BULLET CAMERA

Specification	Sub-Spec	Value
CAMERA TYPE	Type of Camera Housing	BULLET CAMERA
	IP Camera	Yes
	PTZ Camera	No
	Image Sensor Type	CMOS
	Image Sensor Size	0.37
	Camera Image	

IMAGE SENSOR	Sensing capacity (Picture Mode)	2MP
	Resolution	Full HD (1920 x 1080 Pixel)
	Day/Night Capable	Yes
	IR illumination Range(mtr)	30
OPTICS	Lens Type	Fixed
	Focal Length(mm)	3.6
	Iris Control	Yes
	Focus Mode	Auto
VIDEO	Frame Rate (fps)	25
	Video Compression	H.265+
	Video Streaming	Dual compressed stream
PAN / TILT / ZOOM	Panning Range	NA
	Pan Speed (deg/sec)	NA
	Tilt Range below horizontal (deg)	NA
	Tilt Range above horizontal (deg)	NA
	Tilt Speed (deg/sec)	NA
	Optical Zoom	NA
	Digital Zoom	NA
AUDIO	Audio Support	No
	Audio Compression	NA
	Audio Streaming	NA
	Number of Audio Input Channel	NA
	Number of Audio Output Channel	NA
	External Microphone Support	No
ALARM	Alarm Support	No
	Number of Alarm Digital Input	NA
	Number of Alarm Relay Output	NA
	Pre/Post Alarm Buffer	No
SECURITY	Multi Level User ID/Password	Yes
	IP Address Filtering	No

	Encrypted Data Transmission	HTTPS (SSL/TSL)
PERFORMANCE	Minimum Illumination for Capturing Color Image	0.1
	Electronic Shutter Speed(sec)	1/25 to 1/50000
	WDR (Wide Dynamic Range)	DWDR
	SNR (Signal to Noise Ratio)	40-50
	Auto Exposure	Auto Level Control
FEATURES	White Balance (Indoor/Outdoor/Manual Selectable)	Yes
	Auto Gain Control (On/Off selectable)	Yes
	Back Light Compensation	Yes
	Remote Administration (Remote configuration and status using web based tool)	Yes
	Remote System Update Over Network	Yes
	PC Client (PC application client with a channel recording feature support)	Yes
	Web Client (Viewer through HTTP system configuration)	Yes
	On Screen Display in English	Yes
	ONVIF Support	Yes
	Presets	0
	Group Touring	0
Privacy Zones	4	
NETWORK AND INTERFACE	Supported Protocols	UDP,SNMP,IGMP,DHCP,RTP,RSTP,HTTP,SMTP,FTP,ICMP,HTTPS,DNS,DDNS,RTSP,RTCP,NTP,UPnP,QoS,TCP/IP,NA
	IP Support	Static,Dynamic
	Signal Processing	Digital Signal Process
	IPv6 ready	Yes
	Wireless	No

	Simultaneous Connections	10
STORAGE	On Board SD Card Support	No
	SD Card Memory(GB)	NA
HOUSING	Installation Type	Indoor,Outdoor
	Material of the Housing construction	Plastic
	Protection	IP67
	Vandal Resistant Housing	No
	If Yes, IK rating	NA
	Mounting bracket	Wall Mounted
	Weight	220
	Dimensions (mm x mm x mm)	70x70x162
POWER SUPPLY	Power Input	PoE
	Power Consumption	5
	Suitable Adapter Shall be Supplied to Make the Equipment Work on 230 V (+/- 10 %), 50 Hz	Yes
OPERATING CONDITIONS	Operating Temperature Range	-20 to +50 deg C
	Relative Humidity Non Condensing (%)	95
WARRANTY / SERVICES	Warranty	1
	Time for Replacement of Defective Product During Warranty Period	24
	Supply of Compatible drivers and software included	Yes
	Availability of facility & infrastructure for verification of all parameters, features, and capability with Seller	Yes
	Availability of facility to test	Yes

ENVIRONMENTAL / CERTIFICATION

signal to noise ratio of camera at 0-01 lux	
Conformity to Dry Heat test at 55 degree C for 16 hours as per IS :9000 latest	Yes
Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	Yes
Conformity to Cold test at -10 / -20 degree C for 4 hours as per IS: 9000 latest, as applicable	Yes
BIS Registration for safety general requirements as per IS 13252 (Part 1):latest	Yes
Availability of Type Test Report from Central Govt /NABL/ILAC accredited lab to prove conformity to specification	Yes
Test Report Number and Date	NWGQ.E483958 13/9/17
Name and Address of Test Lab	Underwriters Lab
Certification	FCC,CE,UL

**Product Specification for Samsung Flip 2 WM55R**

Specification	Sub-Spec	Value
	Screen Size (Diagonal) Minimum (cm)	138
	Technology	LED Backlit
	Screen Type	Touch
	Panel Technology	Vertical Alignment (VA)
	Orientation	Portrait and Landscape
	Native Resolution (Pixels)	3840 x 2160 (UHD)
	Aspect Ratio	16:9
	Brightness (Nits) Minimum	350
	Native Contrast Ratio (Minimum)	4000:1
	Viewing Angle (Horizontal:Vertical)	178:178
	Response Time (milli seconds)	8

Ungrouped

Bezel width (mm)	0
Number of Speakers	2
Arrangement of Speakers	Inbuilt
Wattage of Speaker (with maximum 10% THD) (Watt)	20
Output Port for audio output if internal speakers are not there	Not Available
VGA Port	Not Available
HDMI Port	Available
DVI-D Port	Not Available
Display Port	Not Available
USB Port	Available
RS 232C Port	Available
RJ 45	Available
In built Sinage Software	Not Available
Power Consumption in Operating Mode (Maximum) (Watt)	154
Power Consumption in Sleep Mode (Maximum) (Watt)	0.5
Duty Cycle	16 x 7
Mounting arrangement	OEM TROLLEY
BIS Registration under CRS of Meity	Yes
If Yes, BIS Registration number	R-41033448
ROHS Compliance	Yes
Power Supply	230 V AC, 50 Hz
Operating Temperature Range (Degree C)	0 ? ~ 40 ?
Operating Humidity (%RH)	10 % ~ 80 %
Dimensions (L X B) (cm x cm)	129.74x 5.99
Weight (Kg)	28.2
Accessories to be supplied : AC Power cord, remote control, user manual, wall mount bracket, necessary cables and connectors	Yes
On Site OEM Warranty (Year)	5

### Product Specification for CP PLUS 2MP DOME CAMERA

Specification	Sub-Spec	Value
CAMERA TYPE	Type of Camera Housing	DOME CAMERA
	IP Camera	Yes
	PTZ Camera	No
IMAGE SENSOR	Image Sensor Type	CMOS
	Image Sensor Size	1
	Camera Image Sensing capacity (Picture Mode)	2MP
	Resolution	D1 (704 x 480 Pixel),HD (1280 x 720 Pixel),Full HD (1920 x 1080 Pixel)
	Day/Night	

	Capable	Yes
	IR illumination Range(mtr)	30
OPTICS	Lens Type	Fixed
	Focal Length(mm)	3.6
	Iris Control	Yes
	Focus Mode	Manual
VIDEO	Frame Rate (fps)	50
	Video Compression	H.264,H.265+,H.265+,MJPEG,MPEG4
	Video Streaming	Dual compressed stream
PAN / TILT / ZOOM	Panning Range	NA
	Pan Speed (deg/sec)	NA
	Tilt Range below horizontal (deg)	NA
	Tilt Range above horizontal (deg)	NA
	Tilt Speed (deg/sec)	NA
	Optical Zoom	NA
	Digital Zoom	NA
AUDIO	Audio Support	No
	Audio Compression	NA
	Audio Streaming	NA
	Number of Audio Input Channel	NA
	Number of Audio Output Channel	NA
	External Microphone Support	No
ALARM	Alarm Support	No
	Number of Alarm Digital Input	NA
	Number of Alarm Relay Output	NA
	Pre/Post Alarm Buffer	No
SECURITY	Multi Level User ID/Password	Yes
	IP Address Filtering	Yes
	Encrypted Data Transmission	HTTPS (SSL/TSL)
	Minimum Illumination for	



PERFORMANCE	Capturing Color Image	0.6
	Electronic Shutter Speed(sec)	1/3 to 1/10000
	WDR (Wide Dynamic Range)	DWDR
	SNR (Signal to Noise Ratio)	50-60
	Auto Exposure	Electronic Level Control
FEATURES	White Balance ( Indoor/Outdoor/Manual Selectable)	Yes
	Auto Gain Control (On/Off selectable)	Yes
	Back Light Compensation	Yes
	Remote Administration (Remote configuration and status using web based tool)	Yes
	Remote System Update Over Network	Yes
	PC Client (PC application client with a channel recording feature support)	Yes
	Web Client (Viewer through HTTP system configuration)	Yes
	On Screen Display in English	Yes
	ONVIF Support	Yes
	Presets	15
	Group Touring	10
Privacy Zones	4	
NETWORK AND INTERFACE	Supported Protocols	UDP,SNMP,IGMP,DHCP,RTP,RSTP,HTTP,SMTP,FTP,ICMP,HTTPS,DNS,DDNS,RTSP,RTCP,NTP,UPnP,QoS,TCP/IP,NA
	IP Support	Dynamic
	Signal Processing	Digital Signal Process
	IPv6 ready	Yes
	Wireless	No
	Simultaneous Connections	5
STORAGE	On Board SD Card Support	No

	SD Card Memory(GB)	NA
HOUSING	Installation Type	Indoor
	Material of the Housing construction	Plastic
	Protection	IP67
	Vandal Resistant Housing	No
	If Yes, IK rating	NA
	Mounting bracket	Wall Mounted
	Weight	0.38
	Dimensions (mm x mm x mm)	109MM*85.5MM
POWER SUPPLY	Power Input	12 V DC,PoE
	Power Consumption	3.6
	Suitable Adapter Shall be Supplied to Make the Equipment Work on 230 V (+/- 10 %), 50 Hz	NA
OPERATING CONDITIONS	Operating Temperature Range	-20 to +50 deg C
	Relative Humidity Non Condensing (%)	95
WARRANTY / SERVICES	Warranty	1
	Time for Replacement of Defective Product During Warranty Period	72
	Supply of Compatible drivers and software included	Yes
	Availability of facility & infrastructure for verification of all parameters, features, and capability with Seller	Yes
	Availability of facility to test signal to noise ratio of camera at 0-01 lux	Yes
	Conformity to Dry Heat test at 55	

ENVIRONMENTAL / CERTIFICATION	degree C for 16 hours as per IS :9000 latest	Yes
	Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	Yes
	Conformity to Cold test at -10 / -20 degree C for 4 hours as per IS: 9000 latest, as applicable	Yes
	BIS Registration for safety general requirements as per IS 13252 (Part 1):latest	Yes
	Availability of Type Test Report from Central Govt /NABL/ILAC accredited lab to prove conformity to specification	Yes
	Test Report Number and Date	CE-RS-1706-1973 12/06/2017
	Name and Address of Test Lab	ROYAL STANCERT INC
	Certification	FCC,CE

### Product Specification for 4U DVR/ NVR Network Rack

Specification	Sub-Spec	Value
Specifications	Type of Server Racks	Rack Enclosures
	Size of Server Rack Enclosure	4U
	Depth of the Rack (mm)	Upto 500
	Mount Type	Wall mount
	Front glass Door	Yes
	Type of glass used in front door	Transparent Toughened Glass
	Material used for rear door	SPCC Quality Cold Rolled Steel Metal
	Both rear and front doors with Perforation	No
	Side Panels With Key Locks and Slam Latch	No
	Secure Locks	Available
	Rear split door design	Yes
	Keyboard Tray Sliding and Rotary	No
	Shelf For CRT/TFT Display	Yes
	Cable channel in rear side for cable management	Yes
	Support cable entry from top or bottom	Yes

Vertical & Horizontal managers	No
Numbers of Rack trays	0
Number of Fan For Heat dissipation (nos)	0
Number of fan trays	0
Heavy Duty Caster Wheels	NA
If yes, then Front Break Options	NA
Load Bearing Capacity (Kgs)	30
If Wall mount racks then ,Swing-Out Racks	NA
Dust or water resistant	Yes
PDU Power Strips	Available
Weight (Kg)	7
Warranty (Years)	1

### Product Specification for Panasonic 1+9 Multiparty Full HD Video Conferencing End Point

Specification	Sub-Spec	Value
	Type of End Point	1+9 Multiparty Full HD
	Does it require mandatory registration with MCU	NA
	Video Conferencing System Resolution	1080p, 60 fps
	Minimum Bandwidth Required for Specified video quality at End point/far-site end (Kbps)	1024
	Type of Camera	PTZ
	Camera Positioning System	Preset
	Type of sensor	CMOS
	Camera Control (focusing, brightness, and white balance)	Automatic
	Multiple Camera System in case of Automatic Voice activated CameraTracking	NA
	Optical zoom	12X
	Digital zoom	10X
	Field of View at zoom (Degree)	72.5
	Pan range Minimum to Maximum (+/- Degree)	-130,130
	Tilt Range (Degree)	-25,90
	Cord and Connector to be supplied	Yes
	System delivers Full HD video and voice & Full HD content for an overall Full HD experience at specified bandwidth	Yes
	Video coding support Protocol	H.263,H.264AVC,H.264 High Profile
	System has G-722/ G-711/ G-729 or equivalent nt wideband audio coding support	Yes
	System supports sharing of video and graphics content during the video call	1080p, 30fps
	It is possible to see both the near and far site on one Screen thus making most efficient use of a single display area	Yes
	System is equipped with one or more Omni directional High Definition Microphones as required to cover large conference room	Yes
	Number of microphone supported	4
	Number of microphone supplied	1
	Number of camera support from the same OEM	2
	Number of Ethernet connection points for System supports for RJ-45, 10/100/1000 Mbps Base-T Ethernet connection	2

Specification

Wi Fi Connectivity	No
If Yes, Type of Wi Fi Connectivity	NA
System supports AES encryption video calls; System has Encryption On and Off capability	Yes
Video Codec shall support 16:9 format	Yes
Power supply: 230 + or - 10% volts, 50 Hz	Yes
Shall come with easy to use infra-red hand held remote control / Touch Panel with operating distance	Yes
All equipment are in compliance with the requirements of ITU-T (SIP Protocol & H Dot 323) Standard related to Video Conferencing	Yes
System to be IPv6 ready from day one	Yes
System uses standards based protocols & the offered system is inter operable with any existing H-323 AVC/SVC based VC equipment in a P to P call on VC end point; All H/W and S/W required to make it interoperable is included in the scope of supply	Yes
Number of Input DVI Ports	0
Number of Input HDMI or equivalent Ports	3
Number of Input USB Ports	0
Number of Output DVI Port	0
Number of Output HDMI or equivalent Port	3
Number of output USB Port	1
Calendering Feature	No
Recording @ 1080p on the end point	Yes
System supplied complete with the following components from the same OEM (a) Codec (b) Camera (c) At least one Microphones with suitable connectivity (d) Remote Control/Touch Panel (e) Data sharing capability using H/W or S/W (f) Necessary Cables	Yes
Type of Microphone	Omni Directional
System is also tropicalized and report available from ILAC/NABL/Govt Lab with all add on including Environmental Sequence	Yes
(a) Dry Heat- For 16 hrs at 55 deg C as per IS:9000/pt-3/sec-5/1977(b) Cold-For 4 hrs at 0 deg C as per IS:9000/pt-2/sec-4/1977 (c) Damp Heat- For 2 Cycles of 24 h each at 40 deg C & 95% RH as per IS:9000/pt-5/sec-1/1991 (All Reaffirmed 2007)	Yes
After each environmental test and a recovery period of two hours, the video conferencing system has been checked for complete functional parameters, and the results found satisfactory	Yes
Type Test Report from ILAC/NABL/Govt lab confirming conformance to above technical specifications - to be made available to buyer	Yes
BIS Registration under CRS of Meity	Yes
BIS Registration Number and its Validity	R-41016012
UL/CE certification	Yes
If Yes, UL/CE certificate Number (Corresponding UL/CE Certificate to be furnished when demanded by the buyer)	20160426-E140407
Minimum Operating temperature (Degree C)	0
Maximum Operating Temperature (Degree C)	40
Minimum Operating humidity (%RH)	10
Maximum Operating humidity (%RH)	90
Free installation and commissioning	Yes
On Site OEM Warranty (Year)	3

### Product Specification for C.P.PLUS Wall Mounted IP Camera Installation & Commissioning Charges

Specification	Sub-Spec	Value
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Installation & Commissioning charges for CCTV Cameras (Accessories)	Type of Camera	IP Camera
	Shape of Camera Housing	Dome
	Installation Type	Indoor
	Type of Mounting	Wall Mounted
	Number of Cameras to be installed	Upto 10
	Agreed to STC of the Product	Yes

**Product Specification for Panasonic Point to Point upgradable Video Conferencing End Point**

Specification	Sub-Spec	Value
	Type of End Point	Point to Point upgradable
	Does it require mandatory registration with MCU	NA
	Video Conferencing System Resolution	1080p, 60 fps
	Minimum Bandwidth Required for Specified video quality at End point/far-site end (Kbps)	1024
	Type of Camera	PTZ
	Camera Positioning System	Preset
	Type of sensor	CMOS
	Camera Control (focusing, brightness, and white balance)	Automatic
	Multiple Camera System in case of Automatic Voice activated CameraTracking	NA
	Optical zoom	3X
	Digital zoom	4X
	Field of View at zoom (Degree)	85
	Pan range Minimum to Maximum (+/- Degree)	100,-100
	Tilt Range (Degree)	20,-20
	Cord and Connector to be supplied	Yes
	System delivers Full HD video and voice & Full HD content for an overall Full HD experience at specified bandwidth	Yes
	Video coding support Protocol	H.263,H.264AVC,H.264 High Profile
	System has G-722/ G-711/ G-729 or equivalent nt wideband audio coding support	Yes
	System supports sharing of video and graphics content during the video call	1080p, 30fps
	It is possible to see both the near and far site on one Screen thus making most efficient use of a single display area	Yes
	System is equipped with one or more Omni directional High Definition Microphones as required to cover large conference room	Yes
	Number of microphone supported	1
	Number of microphone supplied	1
	Number of camera support from the same OEM	2
	Number of Ethernet connection points for System supports for RJ-45, 10/100/1000 Mbps Base-T Ethernet connection	1
	Wi Fi Connectivity	No
	If Yes, Type of Wi Fi Connectivity	NA
	System supports AES encryption video calls; System has Encryption On and Off capability	Yes
	Video Codec shall support 16:9 format	Yes
	Power supply: 230 + or - 10% volts, 50 Hz	Yes
	Shall come with easy to use infra-red hand held remote control / Touch Panel with operating distance	Yes

Specification	All equipment are in compliance with the requirements of ITU-T (SIP Protocol & H Dot 323) Standard related to Video Conferencing	Yes
	System to be IPv6 ready from day one	Yes
	System uses standards based protocols & the offered system is inter operable with any existing H-323 AVC/SVC based VC equipment in a P to P call on VC end point; All H/W and S/W required to make it interoperable is included in the scope of supply	Yes
	Number of Input DVI Ports	0
	Number of Input HDMI or equivalent Ports	3
	Number of Input USB Ports	0
	Number of Output DVI Port	0
	Number of Output HDMI or equivalent Port	1
	Number of output USB Port	1
	Calendering Feature	No
	Recording @1080p on the end point	Yes
	System supplied complete with the following components from the same OEM (a) Codec (b) Camera (c) At least one Microphones with suitable connectivity (d) Remote Control/Touch Panel (e) Data sharing capability using H/W or S/W (f) Necessary Cables	Yes
	Type of Microphone	Omni Directional
	System is also tropicalized and report available from ILAC/NABL/Govt Lab with all add on including Environmental Sequence	Yes
	(a) Dry Heat- For 16 hrs at 55 deg C as per IS:9000/pt-3/sec-5/1977(b) Cold-For 4 hrs at 0 deg C as per IS:9000/pt-2/sec-4/1977 (c) Damp Heat- For 2 Cycles of 24 h each at 40 deg C & 95% RH as per IS:9000/pt-5/sec-1/1991 (All Reaffirmed 2007)	Yes
	After each environmental test and a recovery period of two hours, the video conferencing system has been checked for complete functional parameters, and the results found satisfactory	Yes
	Type Test Report from ILAC/NABL/Govt lab confirming conformance to above technical specifications - to be made available to buyer	Yes
	BIS Registration under CRS of Meity	Yes
	BIS Registration Number and its Validity	R-41016012
	UL/CE certification	Yes
	If Yes, UL/CE certificate Number (Corresponding UL/CE Certificate to be furnished when demanded by the buyer)	20160426-E140407
	Minimum Operating temperature (Degree C)	0
	Maximum Operating Temperature (Degree C)	40
	Minimum Operating humidity (%RH)	10
	Maximum Operating humidity (%RH)	90
	Free installation and commissioning	Yes
	On Site OEM Warranty (Year)	1

**Product Specification for CAT 6 Cable for cctv**

Specification	Sub-Spec	Value
GENERIC	Cate 6 cable conforming to ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest	Yes
	Cable category: Category 6 Unshielded/Unshielded twisted pair or Category 6 Foiled/Unshileded twisted pair or Category 6 Shielded /Foiled Twisted Pair	CAT6 F/UTP
	Cable colour	Grey
	Conductor diameter	0.51 mm (24 AWG)
	Conductor count (in Nos..)	8

	Length of cable in a bundle (Mtrs)	305 mtrs.
CONSTRUCTIONAL	"CAT6 Cable can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet)."	Yes
	Maximum DC resistance - in Ohm/Km	Max. 100 Ohm/Km
	Conductor Material	Bare Copper
	Conductor Insulation Material	Polyethylene
	Cable jacket material	Low Smoke zero halogen (LSZH)
	Conductor stranding	Solid
	Cable should have internal cross separator	Yes
	Storage temperature range	minus 20 degree C to plus 60 degree C
	Operating temperature range	minus 20 degree C to plus 60 degree C
	Each meter printed with sequential length counter of cable apart from marking requirement as per relevant specifications and certifications	Yes
CERTIFICATIONS	Category 6 cable shall have valid verified certificate from ERTL/ETL /Intertek/3P /GHMT /Delta/UL as per CAT 6 standards ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest	Yes
	If "Yes" Certificate Number - Must declare	03BHO11E
	UL Marking on Cable	Yes
	Availability of complete and satisfactory type test Report from Central Government / NABL/ ILAC accredited laboratory to conformity of the Specification	Yes
	Test report Number	03BHO11E
	Report date	05.06.2017
	Name and address of Lab	EAST DELHI
	All the test reports and certificates shall furnish to the buyer/consignee on demand	Yes

### Product Specification for LARGE FORMAT DISPLAY

Specification	Sub-Spec	Value
	Screen Size (Diagonal) Minimum (cm)	189
	Technology	LED Backlit
	Screen Type	Non Touch
	Panel Technology	Vertical Alignment (VA)
	Orientation	Portrait and Landscape
	Native Resolution (Pixels)	3840 x 2160 (UHD)
	Aspect Ratio	16:9
	Brightness (Nits) Minimum	350
	Native Contrast Ratio (Minimum)	4000:1
	Viewing Angle (Horizontal:Vertical)	178:178
	Response Time (milli seconds)	8
	Bezel width (mm)	12.5
	Number of Speakers	2
	Arrangement of Speakers	Inbuilt



Ungrouped	Wattage of Speaker (with maximum 10% THD) (Watt)	20
	Output Port for audio output if internal speakers are not there	Available
	VGA Port	Not Available
	HDMI Port	Available
	DVI-D Port	Available
	Display Port	Not Available
	USB Port	Available
	RS 232C Port	Available
	RJ 45	Available
	In built Sinage Software	Available
	Power Consumption in Operating Mode (Maximum) (Watt)	231
	Power Consumption in Sleep Mode (Maximum) (Watt)	0.5
	Duty Cycle	16 x 7
	Mounting arrangement	WALL MOUNT
	BIS Registration under CRS of Meity	Yes
	If Yes, BIS Registration number	R-41033448
	ROHS Compliance	Yes
	Power Supply	230 V AC, 50 Hz
	Operating Temperature Range (Degree C)	0 c ~ 40 c
	Operating Humidity (%RH)	10-80%
Dimensions (L X B) (cm x cm)	168.11 x 96.01	
Weight (Kg)	38.3	
Accessories to be supplied : AC Power cord, remote control, user manual, wall mount bracket, necessary cables and connectors	Yes	
On Site OEM Warranty (Year)	5	

### Product Specification for CP-PLUS PVC Pipe Above Surface Laying & Installation Charges For Cables

Specification	Sub-Spec	Value
Laying & Installation Charges for Cables (with or without conduit) Suitable for CCTV System(Accessories)	Suitable Conduit Pipe	With
	Conduit material	PVC Pipe
	Laying location	Above Surface
	Depth of laying in case of under ground laying	60
	Number of Cables to be laid	Bunch upto 3 Cables of any type
	Agreed to STC of the Product	Yes

### Product Specification for PROFESSIONAL LARGE FORMAT DISPLAY

Specification	Sub-Spec	Value
	Screen Size (Diagonal) Minimum (cm)	138
	Technology	LED Backlit
	Screen Type	Non Touch
	Panel Technology	Vertical Alignment (VA)

Ungrouped

Orientation	Portrait and Landscape
Native Resolution (Pixels)	3840 x 2160 (UHD)
Aspect Ratio	16:9
Brightness (Nits) Minimum	350
Native Contrast Ratio (Minimum)	4000:1
Viewing Angle (Horizontal:Vertical)	178:178
Response Time (milli seconds)	8
Bezel width (mm)	11.2
Number of Speakers	2
Arrangement of Speakers	Inbuilt
Wattage of Speaker (with maximum 10% THD) (Watt)	20
Output Port for audio output if internal speakers are not there	Available
VGA Port	Not Available
HDMI Port	Available
DVI-D Port	Available
Display Port	Not Available
USB Port	Available
RS 232C Port	Available
RJ 45	Available
In built Sinage Software	Available
Power Consumption in Operating Mode (Maximum) (Watt)	143
Power Consumption in Sleep Mode (Maximum) (Watt)	0.5
Duty Cycle	16 x 7
Mounting arrangement	WALLMOUNT
BIS Registration under CRS of Meity	Yes
If Yes, BIS Registration number	R-41033448
ROHS Compliance	Yes
Power Supply	230 V AC, 50 Hz
Operating Temperature Range (Degree C)	0-40
Operating Humidity (%RH)	10-80
Dimensions (L X B) (cm x cm)	123.51 x 70.79
Weight (Kg)	18.1
Accessories to be supplied : AC Power cord, remote control, user manual, wall mount bracket, necessary cables and connectors	Yes
On Site OEM Warranty (Year)	5

**Product Specification for NETWORK VIDEO RECORDER**

Specification	Sub-Spec	Value
	Type of Recording Device	NVR
	IP Camera Support	Yes
	PTZ Camera control	

TYPE	Support	Yes
	Housing construction	Alluminium
	Mounting	Wall Mounted
	Rack Mount configuration	2U
	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)	Yes
VIDEO	Number of Video Input Channels	16
	Number of Non-IP based Video input Channels for HVR	NA
	Number of IP based Video input Channels for HVR	NA
	Number of Video Output Channels	2
	Recording Resolution	Full HD (1920 x 1080)
	Supported Compression Technique	H.264,H.265,MPEG-4,MJPEG,H.265+,H.264+
	Maximum Number of cameras to be viewed on a single display	16
	Total number of simultaneous local views	2
	Simultaneous Monitoring Connections for All Cameras (Users in Local Network for Client Connection)	8
	Recording Speed for all channels (fps)	6
	Minimum Through put (Mbps)	96
	Display Image Rate	Real time per channel
AUDIO	Audio Support	Yes
	Audio Input	1
	Audio Output	1
	Audio Compression	NA
	Minimum Number of Simultaneous Channels for Two-way Audio Support	1
	Type of Encryption	NA

SECURITY	Multi Level User ID / Password	Yes
ALARM	Alarm Support	No
	Alarm Input	NA
	Alarm Output	NA
	Pre / Post Alarm Buffer	No
	Pre-Alarm Recording	10
	Post-Alarm Recording	10
	Video Content Analytics (VCA)	Trip-wire Detection,Motion Detection,Crossing line,Intrusion Detection,Face Recognition,Object counting,Tampering,Object Removal,Number Plate Recognition,NA,Video Loss,Text-IN,Digital Zoom 12X and more
NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM	Operating System Supported	Windows,MAC,Linux
	Supported Network Protocols	UDP,SNMP,IGMP,DHCP,RTP,RSTP,HTTP,HTTPS,DNS,DDNS,RTSP,RTCP,NTP,UPnP,SMTP,FTP,ICMP,QoS,TCP/IP
	Supported Interface	Ethernet,Wifi,HDMI,VGA,CVBS,Bluetooth,USB,RS 232,RS-422,RS-485,2 Number of e-SATA external Port,4 Number of e-SATA external Port
	Physical Layer of Ethernet	10/100/1000 Base TX
	Number of Ethernet Ports	0
	Number of HDMI Ports	1
	Number of VGA Ports	1
	Number of CVBS Ports	0
	Number of USB Ports	2
	Number of Serial Ports	0
	Number of PoE Ports	0
	Supported SIM Slot	NA
	Number of SIM Slots	0
	Video Loop Support	Yes
	Video Recorder supports recording on NAS Directly	Yes
	Remote Administration (Remote Configuration And Status Using Web Based Tool)	Yes
	System Update (Remote System Update Over Network Using Web Client)	Yes

FEATURES	PC Client (PC Application Client With A Channel Recording Feature Support)	Yes
	Web Client (Viewer through HTTP system configuration)	Yes
	On Screen Display (In English)	Yes
	Drivers / Compatible Software (Wherever Applicable) Part Of Supply	Yes
	Recording schedule support	Yes
	Bandwidth Control	Yes
	Camera Notification	Spot (POP up Window) on Event
	Network transmission Speed	Real time display @ D1 resolution,Synchronous Playback up to 16 Ch full HD,,Constant Bit Rate (CBR),Variable Bit Rate (VBR)
	Other features, if any	-
PLAYBACK / VIEW / MANAGEMENT	Search	Date,Time,Event,Log,Motion,Bookmarks,Time- Lapse,Event,Thumbnail,Motion
	Bookmarks	Forward,Backward,adjustable playback speed,Full Screen,Next Camera,Previous Camera,Repeat
	Page preview	Multi Monitor Support,Video Window,Electronic Map on two separate monitors
	Total Management	Group add,Delete,Group management,Remote Data Export
	Camera	Add,Edit,Delete,Use Master account,Use Specific account
STORAGE	Internal Hard Drive Interface	SAS
	Number of Hard Disks (inclusive in the scope of supply)	1
	Storage Capacity of each Hard Disk (TB)	6
	Total Storage Capacity(TB)	12
	Internal Storage Expandable upto (TB)	32
	Number of Hard Disks supported	2
	Redundancy Option	NA
POWER SUPPLY	Power Input	12 V DC
	Power Consumption	7
	Suitable Adapter to be Supplied to Make the Equipment Work on 230 V $\pm$ 10 %, 50 Hz	NA
	Redundant Power Supply	No

OPERATING CONDITIONS	Minimum Operating Temperature	-10
	Maximum Operating Temperature	55
	Relative Humidity Non Condensing at 40 deg C	90
WARRANTY / SERVICES	Warranty	1
	Time for Replacement of Defective Product During Warranty Period	72
ENVIRONMENTAL / CERTIFICATION	Availability of facility and infrastructure for verification of all the parameters, features and capability with the Seller	Yes
	Conformity to Dry Heat test at Specified Maximum Operating Temperature for 16 hours as per IS :9000 latest	Yes
	Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	Yes
	Conformity to Cold test at Specified Minimum Operating Temperature for 4 hours as per IS: 9000 latest	Yes
	BIS Registration for safety general requirements as per IS: 13252 (Part 1): latest	Yes
	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	Yes
	Test Report Number and Date	NWGQ.E483958
	Name and Address of Test Lab	INFORMATION TECH
	Certification	CE,UL
LIST OF ITEMS	List of Items and Quantity of each item included in the offer	MOUSE

## Terms and Conditions

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### 1. Special terms and conditions

1.1 In addition to General Terms and Conditions of the GeM following Special T&C shall be applicable for Installation & Commissioning charges for CCTV Cameras:

1.1.1 Inclusive in the Scope of installation and Commissioning:

1.1.1.1 Fixing of Camera Mount / Stand at designated place for the camera, i. e., on Wall / Ceiling / Pole.

1.1.1.2 Fixing of Camera on Mount / Stand.

1.1.1.3 All necessary accessories for fixing of Mount/ Stand.

1.1.1.4 Connection and integrating the Cameras with power supply / CCTV Controller / NVR / DVR / HVR.

1.1.2 Not - inclusive in the Scope of installation and Commissioning:

1.1.2.1 Obtaining necessary approvals / permissions from the concerned Authorities, if any, for installation & Commissioning of CCTV Cameras.

1.1.3 Buyer's obligations:

1.1.3.1 Obtaining necessary approvals / permissions from the concerned Authorities, if any, for installation & Commissioning of CCTV Cameras.

1.1.3.2 Buyer / Consignee shall provide power points, wherever necessary.

1.2 In addition to General Terms and Conditions of the GeM following Special T&C shall be applicable for Laying & Installation charges for Cables (with or without conduit) suitable for CCTV System:

1.2.1 Inclusive in the Scope of laying & installation:

1.2.1.1 Supply of Conduit and Laying of Conduit with necessary fittings such as bends, joints, reducers, Tees etc., wherever required.

1.2.1.2 All necessary accessories such as conduit pipe fittings, mounting clips etc., for proper laying and installation of Conduit, wherever required.

1.2.1.3 Supply of suitable Connectors required for connecting the cable with Camera / DVR / NVR / HVR / SFP module / PoE Switch etc.

1.2.1.4 Proper dressing of Cable ends, Pre-forming of connecting cables (end termination) and Fixing suitable connectors.

1.2.1.5 Digging of trench for underground laying and properly closing the trench after completion of laying work, wherever required.

1.2.1.6 The trench for underground laying, wherever applicable, may be upto 30 cm (1 foot) wide and depth as specified in the contract. seller may use horizontal boring machine if required.

1.2.1.7 Cutting / Chiselling of grooves in the walls for concealed laying in walls and Cementing & finishing of the grooved portion after completion of laying work, wherever required.

1.2.2 Not - inclusive in the Scope of laying & installation:

1.2.2.1 Obtaining necessary approvals / permissions from the concerned Authorities, if any, for Digging trenches, Cutting / Chiselling of grooves in the walls, wherever required.

1.2.3 Buyer's obligations:

1.2.3.1 Obtaining necessary approvals / permissions from the concerned Authorities, if any, for Digging trenches, Cutting / Chiselling of grooves in the walls, wherever required.

1.2.3.2 Buyer / Consignee shall provide power point for drilling holes, cutting grooves, etc., for indoor laying & installation of cables.

### 2. General Terms and Conditions

2.1 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) as available on the GeM portal (unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable

2.2 **Terms of delivery:** Free Delivery at Site including loading/unloading. In respect of items requiring installation and / or commissioning and other services in the scope of supply (as indicated in respective product category specification / STC / ATC), and the cost of the same is also included in the Contract price.

2.3 **Delivery period:** The Delivery Period/Time shall be essence of the Contract and delivery must be completed not later than such date(s). Any modification thereto shall be mutually agreed and incorporated in the Contract as per the provisions of the GTC.

2.4 **Performance Security:** If the Seller fails or neglects to observe or perform any of his obligations under the contract it shall be lawful for the Buyer to forfeit either in whole or in part, the Performance Security furnished by the Seller.

2.5 **Taxes and Duties:** Contract Prices are all inclusive i.e. including all taxes, duties, local levies / transportation / loading-unloading charges etc. Break up of GST shall be indicated by the Seller while raising invoice / bill on GeM. While submitting the bill / invoice Seller shall undertake that the Goods and Services Tax (GST)

charged on this bill is not more than what is payable under the provision on the relevant Act or the Rules made there under and that the Goods on which GST has been charged have not been exempted under the GST Act or the Rules made there under and the charges on account of GST on these goods are correct under the provision of that Act or the rules made there under.

**2.6 Octroi Duty and / or other local taxes:** Contract Prices are all inclusive hence no reimbursement over and above the contract price(s) shall be allowed to seller towards payment of local taxes (such as levy of town duty, Octroi Duty, Terminal Tax and other levies of local bodies etc).

**2.7 Limitation of Liability:** The provisions of limitation of liability between Buyer and Seller as given in the GTC shall be applicable here.

**2.8 Resolution of disputes:** The provisions of DISPUTE RESOLUTION BETWEEN BUYER AND SELLER as given in the GTC shall be applicable here.

**2.9 Liquidated Damages:** If the Seller fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever. In case, Service Level Agreement (SLA) is applicable the same shall be applicable for the Contract.

**2.10 Financial Certificate:**

**2.10.1** The expenditure involved for this purpose has received the Sanction of the competent financial authority.

**2.10.2** The funds are available under the proper head in the sanction budget allotment for the concern financial year.

**2.10.3** I have been fully authorized by the department to sign the supply order or incur the liability of the Goods being ordered.

**2.11** The bidder should submit a self declaration to the effect in bidder's official letter head that their agency have not been black listed by any Agency whatsoever till date.

**3. Additional Terms and conditions**

**3.1 Availability of Service Centres:** Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

**3.2 Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:

Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): Government Polytechnic

Post Receipt Inspection at consignee site before acceptance of stores: Aurangabad Municipal Corporation/ASCDCL

**3.3 Bidder Turn Over Criteria:** The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

**3.4 Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

**3.5 Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

**3.6 Non return of Hard Disk:** As per Buyer organization's Security Policy, Faulty Hard Disk of Servers/Desktop Computers/ Laptops etc. will not be returned back to the OEM/supplier against warranty replacement.

**3.7 Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.**

**3.8 Dedicated /toll Free Telephone No. for Service Support :** BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

**3.9 Bidders shall quote only those products in the bid which are not obsolete in the market and has at least 1 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.**

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