



NAYA RAIPUR DEVELOPMENT AUTHORITY

Modified

**Tender Document for the
Designing, Supplying, Installation, Integration,
Testing and Commissioning of Audio Visual
conferencing & control system for Paryavas Bhawan,
sector 19 at Naya Raipur**

(Following Three-Envelope Tender Procedure)

**Schedule – A
Price Tender
To be submitted in ENVELOPE-3**

NIT No.: 77/Comp-AV/EEC-III/CE (E)/NRDA/2016-17, Naya Raipur,

Dated: 03.06.2016

Issued by: Chief Executive Officer,
Naya Raipur Development Authority (NRDA)
1st Floor, Utility block, Capitol Complex, Sector- 19,
Naya Raipur- 492 002, Chhattisgarh
Tel No: + 91 771 2511500; Fax No.: +91 771 2511400.
Website: www.nayarapur.gov.in

Tender Document Contains

- (a) Only schedule "A" and Section-I of schedule "D" are to be filled & signed by the tenderer
- (b) All the certificates as per pre qualification criteria shall be appended with relevant forms of schedule "D"

1. PART ONE (NRDA F-1)-(Attached herewith, to be submit along the tender)

Part (A)

- a) Press Notice
- b) Detailed NIT

Part (B)

a) Schedule-A

- (i) Cost Abstract
- (ii) Bill of Quantities

- b) Schedule-B –NIL
- c) Schedule-C –NIL
- d) Schedule-D

Section-I..... (I) Letter Of Technical Tender

(ii)Tenderer's Information Sheet

(iii) Annual Turnover

(iv) Specific Construction Experience

(v)Declaration

(vi) Check List For Technical Tender Evaluation

(vii) Experience In Designing, Supplying, Installation, Integration, Testing And Commissioning Of Audio Visual System

(viii) Completion Certificate Of Executed Work

(ix) Return Of Emd

(X) Integrity Pact

(XI) Undertaking

..... Section –IIScope of work

Section –III..... Technical specifications of work

Section –IV..... Special Conditions of Contract

Section –V..... List of approved makes

Section –VI..... Drawings

- e) Schedule-E
- f) Schedule-F

2. PART TWO (NRDA F-2/3)-Standard form (Not Attached herewith, and not to be submitted along the tender) Important note: - Link site <http://nayarapur.com/documents/gcc.pdf>

1. General Guidelines
2. Tender
3. General rules and directions
4. Conditions of contract
5. Clauses of contract
6. Model rules relating to labour, water supply and sanitation in labour camps safety code
7. Contract forms
 - (a) Draft Format for Performance Security
 - (b) Earnest Money Deposit Form (Bank Guarantee)
 - (c) Format of Contract Agreement
 - (d) Draft Format for Performance Guarantee for Water Proofing and Anti-termite Works
 - (e) Indemnity Bond
 - (f) Indenture Bond
 - (g) Notice for Appointment of Arbitrator
8. Proforma of schedules (Schedule 'A' to Schedule 'F')

Naya Raipur Development Authority (NRDA) Raipur, Chhattisgarh

Document details

Name of work : “Designing, Supplying, Installation, Integration, Testing and Commissioning of Audio Visual conferencing & control system for Paryavas Bhawan, sector 19 at Naya Raipur”.

Name of Tenderer:

Details

- a) Cost of Tender Document : Rs
- b) EMD : Rs

Signature of Tenderer

Date:_____

**Modified
BILL OF QUANTITIES**

Designing, Supplying, Installation, Integration, Testing and Commissioning of Audio Visual conferencing & control system for Paryavas Bhawan, sector 19 at Naya Raipur

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
1	LED Display with Mounting Bracket on Side Wall	65-inch LED Display, Type 60Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.248 mm (H) x 0.744mm (V), Active Display Area 1428.48mm (H) x 803.52mm (V), Brightness 400 nit, Contrast Ratio 4000:1, nputs: Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), RS-232C remote control etc	No.	6			Rs. -
2	Monitor for Chairman	32-inch LED Display, Type 60 Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.17025 mm (H) x 0.51075 (V), Active Display Area 697.68 mm (H) x 392.25 mm (V), Brightness 350nit, Contrast Ratio 4,000:1, Built in Speaker (10 W + 10 W) Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), Ethernet / RS-232C remote control etc.	No.	1			Rs. -
3	Digital Matrix Switcher-cum-Scaler	Digital Matrix Switcher-cum-Scaler for HDMI & HDBaseT / Digital CAT RJ45 having 8 inputs & 4 outputs alongwith 4 Nos digital twisted pair inputs/HDBaseT & 4 Nos. outputs on HDBaseT / Digital Twisted Pair output and paralel HDMI outputs with separate audio input & audio output, built in audio DSP, RS232 & Eathernet Control ports etc	No.	2			Rs. -
4	HDMI Transmitter	HDMI Twisted Pair Transmitter, Max. Data Rate - 1.65Gbps, HDTV Compatible, HDCP Compliant, HDMI Support - HDMI (V.1.4 with Deep Color, x.v.Color, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD), 3D Pass-Through etc.	No.	5			Rs. -
5	HDMI Receiver	HDMI Twisted pair receiver for HDMI signals, converts the twisted pair signal back to an HDMI signal, Max. Data Rate - 1.65Gbps, HDTV Compatible, HDCP Compliant, HDMI Support - HDMI (V.1.4 with 3D, Deep Color, x.v.Color, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD), 3D Pass-Through etc.	No.	10			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
6	Cable Cubby	Table Mount Modular Multi-Connection Solution, Manually opens & closes cover with internal framer, Universal Power Supply & Cable Pass Through, UL and CE Qualified etc.	No.	7			Rs. -
7	Control Processor	Control System including Master Room Controller, PORTS: 6 RS-232, & Ethernet on an RJ-45 connector; 2 infrared built-in receiver, 2 infrared on 3.5mm mini jacks; 1 USB for programming, OUTPUTS: 4 infrared, 8 relays (36V AC or DC, 2A, 60V AC maximum on non-inductive load) etc.	No.	2			Rs. -
8	Wired Button Panel	Auxiliary wired button panel on each Door works as a remote control panel for master room controllers, Panel buttons are touch sensitive and give press confirmation using their LEDs, Front Panel Buttons - 6 configurable, touch sensitive with indicator LEDs, Control Channel - Provides power and control data to the wall plate controllers over a single cable, Connector - Connects to other control panels or a central control processor etc.	No.	2			Rs. -
9	Touch Panel with Control Software	7.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology or better, 2048x1536 resolution at 326 pixels per inch (ppi), Fingerprint-resistant oleophobic coating, Support for display of multiple languages and characters simultaneously, Network: Wi Fi (802.11a/b/g/n); dual channel (2.4GHz and 5GHz) and MIMO Bluetooth 4.0 technology alongwith Control Software etc.	No.	2			Rs. -
10	WiFi Router	4 Port Wireless Network Switch etc.	No.	2			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
11	Blu-Ray Disc Player	Blu-ray Disc Player, Full HD 1080p playback, Super Quick Start for faster start-up & loading, DTS (Digital Theatre Systems)/Dolby Digital 2ch , Wider CODEC formats playability, 1 x USB port, Easy navigation remote controller, Wi-Fi Ready, Input/Output: 1 x HDMI Output, 1 x Optical / Coaxial Audio Output, 1 x USB Port & 1 x Ethernet Port etc.	No.	2			Rs. -
12	Desktop Computer	Desktop Computer, Quadcore Processor or better, 2GB RAM, 500 HDD, Windows 8.1 with DVD Writer, Keyboard, Mouse alongwith 18" LED Monitor etc.	No.	2			Rs. -
13	Speaker Cable	16 AWG Speaker Cable, PVC color coded: red, black, Outer Jacket Color: Light gray with blue lettering etc.	Rmt.	300			Rs. -
14	Audio Cable	high-quality shielded Microphone cable designed for routing balanced mono or unbalanced stereo mic or line level audio signals, Quality Construction - Conductors and drain wire are stranded 20AWG tinned copper, Rugged and Flexible Jacket - With sequential markings every meter, Easy Stripping - Exceptionally easy to strip because the foil shield is bonded to the inside of the jacket. etc.	Rmt.	150			Rs. -
15	Control System Cable	high-quality dual shielded pair style cable designed for audio / control in commercial or residential AV systems etc. complete with installation as per the site requirement.	Rmt.	200			Rs. -
16	Digital Twisted Pair Cable	Digital Shielded twisted pair (STP) Data Cable, 4 shielded twisted pairs CAT6 of 23 AWG solid copper conductors are cabled together in an unshielded outer jacket use with digital transmitter-receiver sets, Terminate with shielded RJ-45 connectors etc.	Rmt.	345			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
17	Connectors	Audio Video Conectors as per site requirement.	Lot	2			Rs. -
18	HDMI Cable	HDMI cable with Ethernet 6 feet Long etc.	No.	17			Rs. -
19	VGA with Audio Cables	Male to Male VGA Molded Connectors with Audio Cables 3 feet long.	No.	5			Rs. -
20	Laser Technology LCD / DLP Projector with Lens as per site requirement	LCD / DLP Projector having 4000 lumens or better brightness with Pure Laser Technology, 20,000 hrs Lamp Life, Edge Blending, contrast ratio 5000:1 or better, 1920x1200 native resolution 16:10, Inputs 1 x RGB D-Sub 15pin, 5 x BNC, 2 x Stereo Mini Jack, 1 x DVI-D, 1 x HDMI, 1 x S-Video, 1 x Composite Video, Outputs 1 x RGB D-Sub 15pin, 1 x Stereo Mini Jack, Control 1xRS-232C, 1xLAN RJ-45 etc	No.	7			Rs. -
21	Motorized Screen	Motorized Projection Screen following size, Matte White, 16:9 HDTV Format with IR remote control complete with installation as per the site requirement.					
a		Screen 123" Diagonal	No.	2			Rs. -
b		Screen 113" Digoal	No.	6			Rs. -
22	HDMI / VGA Wall Plate	Active Wall Plate – HDMI & Computer Graphics with Bidirectional RS-232 and Stereo Audio DGKat Twisted Pair Transmitter etc.	No.	4			Rs. -
23	HDMI Cable	HDMI cable with Ethernet 3 feet Long etc.	No.	4			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
24	HD Video Conferencing System	High Definition Visual Communications System, the system should have capability to connect to 7 more locations all with HD resolution (1+7) using the inbuilt capability, Protocols: H.323 and SIP Compliant, H.261, H.263, H.264, The system should support higher Video Compression protocols such as H.264 SVC/H.265 with Full HD Video Camera, It should have 2 x HD Camera Interface inputs, Inputs: It should have another inbuilt 3 x HDMI/DVI/VGA port for PC, Document Camera and Outputs: It should have atleast 2 x HDMI/DVI ports to connect displays, It should have 1 x HDMI/DVI for connecting recording device, Shall work in high definition video resolution of 1080p60fps for live video for both Transmit and receive etc., Contant Resolution: The system should support 1080p30fps content along with 1080p30fps Main Video, Camera: Full HD 1080p 60 fps, 1280 x 1080p CCD imager, Zoom - 12X or more, Field of View - 250 Degrees or Higher Horizontal FOV, Package includes: Full HD 1080p camera, Full HD 1080p Codec, Microphone, Cables, and Wireless Remote Control etc.	No.	2			Rs. -
25	Secondary Ceiling Mounting Camera	1/2.8-type Exmor™CMOS PTZ Camera, 2 Megapixels Picture elements, Compact Size and Silent Mechanism,High Sensitivity Mode: 0.5 lx (F1.6, 50 IRE) 20x Optical Zoom, 12x Digital Zoom), 1080i, 720p, and DVI-1 & Analogue Output, External Synchronization Function, Desktop & ceiling mount, DVI Interface etc.	No.	0			Rs. -
26	Wireless Presentation	Wireless presenter unit for student to share presentation from laptop/smart phone wirelessly, Share smooth full motion video (up to 1080p/60), MP3 files, and photos, INPUTS: 4 USB 3.0, 1 LAN on an RJ-45 connector, GRAPHIC OUTPUTS: 1 HDMI, 1 mini DisplayPort, AUDIO OUTPUT: 1 S/PDIF, PROCESSOR: 4th generation Intel® Dual core 1.4GHz, MAIN MEMORY: 4GB, high speed, STORAGE: 32GB, solid-state drive, LAN: Gigabit LAN, AUDIO: Analog or embedded HDMI, S/PDIF Realtek ALC269 etc.	No.	3			Rs. -
27	TataSky	TataSky with required HDMI cables, connectors & Mounting Hardware with annual subscription etc.	No.	19			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
28	LED Display with Mounting Bracket	55-inch LED Display, Type 120 Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.21 mm (H) x 0.63 mm (V), Active Display Area 1,209.6 mm (H) x 680.4 mm (V), Brightness 350nit, Contrast Ratio 5,000:1, Built in Speaker (10 W + 10 W), Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), Ethernet / RS-232C remote control etc.	No.	2			Rs. -
29	LED Display with Mounting Bracket	40-inch or better LED Display, Type 60 Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.15375 mm (H) x 0.46125 (V), Active Display Area 885.6 mm (H) x 498.1 mm (V), Brightness 350nit, Contrast Ratio 5,000:1, Built in Speaker (10 W + 10 W) Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), Ethernet / RS-232C remote control etc.	No.	5			Rs. -
30	HDMI Cable	HDMI cable with Ethernet 15 Meter Long etc.	No.	6			Rs. -
31	Cable Cubby	Table Mount Modular Multi-Connection Solution, Manually opens & closes cover with internal framer, Universal Power Supply & Cable Pass Through, UL and CE Qualified alongwith VGA, HDMI & LAN inputs etc.	No.	2			Rs. -
32	HDMI Cable	HDMI cable with Ethernet 1.8 meter Long etc.	No.	3			Rs. -
33	VGA with Audio Cables	Male to Male VGA Molded Connectors with Audio Cables 15 meter long.	No.	3			Rs. -
34	VGA with Audio Cables	Male to Male VGA Molded Connectors with Audio Cables 1.8 meter long.	No.	2			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
35	LED Display with Mounting Bracket on Wall	75-inch LED Display, Type 120Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.2865mm (H) x 0.8595mm (V), Active Display Area 1650.24mm (H) x 928.26mm (V), Brightness 320 nit, Contrast Ratio 4000:1, nputs: Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), RS-232C remote control etc.	No.	1			Rs. -
36	Switcher-cum Scaler	Presentation Digital Scaler/Switcher with Ethernet Control, INPUT: 2 HDMI connectors (HDMI, HDCP version 1.1); 1 VGA on a 15-pin HD (F) connector; 1 composite video on an RCA connector; 1 Y/C on a 4-pin connector; 2 component video each on 3 RCA connectors; 7 unbalanced stereo audio each on 3-pin terminal block connectors & OUTPUT: 1 RGBHV on 5 BNC connectors; 1 HDMI connector (HDMI, HDCP version 1.1); 1 VGA (RGBHV) on a 15-pin HD connector; 1 S/PDIF and 1 unbalanced stereo audio on 2 RCA connectors, H FREQUENCY: 15.63-90kHz, V FREQUENCY: 50-100kHz etc.	No.	1			Rs. -
37	Equipment Rack	Suitable Equipment Rack for placing AV Devices complete with power strip, cooling fan, back and front door (lockable) alongwith equipment rack tray & wheels etc.	No.	1			Rs. -
38	Conference Controller	Fully Digital Central Conference Controller Unit, Frequency response 20 Hz to 16 kHz or better, Insertion for SD card up to 32 GB and record button or external storage of same OEM & same capacity to record audio signals, System Connection 2 x RJ45 socket, Conrol/ Service RS 232 interface 9-pin Sub-D socket, Temperature range 0 to +40 °C etc Or the system should run on digital co-axial cable	No.	1			Rs. -
39	Chairman Microphone	Fully Digital Flush Mount Chairman Microphone Unit with Gooseneck microphone with illuminated ring, 3 microphone buttons with LED, clear button and configurable function button in the housing, 5-pin XLR connection with hidden lock for removable gooseneck microphone length 400mm or better, Frequency response 50 - 19,000 Hz or better, Polar Pattern Cardioid or better, 2x RJ45 socket, CAT5 Cable etc Or the system should run on digital co-axial cable	No.	1			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
40	Delegate Microphone	Fully Digital Flush Mount Delegate Microphone Unit with Speaker, Gooseneck microphone with illuminated ring, Single microphone button with LED, 5-pin XLR connection with hidden lock for removable gooseneck microphone length 400mm or better, Frequency response 50 - 19,000 Hz or better, Polar Pattern Cardioid or better, 2x RJ45 socket, CAT5 Cable etc Or the system should run on digital co-axial cable	No.	11			Rs. -
41	FOH Speakers	Passive Column Array Loudspeaker with a complement of 7 x 3.5" (89 mm) LF, 150 Hz - 30 kHz, Horizontal dispersion (-6 dB) 130 degrees & Vertical dispersion (-6 dB) + 6 degrees / - 22 degrees (-8 degree bias), Power Handling 200 W (average), 400 W (programme), 800 W (peak) & 70V/100 Transformer taps etc.	No.	2			Rs. -
42	Ceiling Speakers	Ceiling mount coaxial loudspeaker with single 6" LF or more Full Range loudspeaker. The loudspeaker should have frequency range of 65Hz-20kHz(-10dB), sensitivity (1W/1m) of 90 dB SPL or better, Max SPL of 114dB or more with power handling pk.230W or more. It should have horizontal and vertical coverage angle of 90° better. It should have inbuilt transformer with tap settings of 60W,30W,15W @70V/100V. The speaker should have integrated back-can and UL-94 rating etc.	No.	4			Rs. -
43	Audio Amplifier for FOH Speakers	Amplifier, 2 x 300W at 8 Ohms, 600W at 4 ohms with inbuilt DSP, Limiter , EQ, Peak total output all channels driven 1200 W, Peak output voltage per channel 70 Vrms, Frequency response 2 Hz - 42000 Hz, SN Ratio 102 dB, Input Impedance 18k ohms & output impedance 25k ohms, Approvals from CE, PSE, UL 60065, CAN/CSA-C22.2, No.60065:03, FCC part 15 Class A, EN 55103-1, EN55103-2, ROHS compliant etc.	No.	1			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
44	Audio Amplifier for Ceiling Speakers	8 Channel Amplifier with 8 x 125 watts at 8 ohms. THD 20 Hz - 20 kHz for 1 W -<0.1%; Signal to Noise Ratio:>112 dBA, Channel separation (Crosstalk) at 1 kHz->70 dB; VPL selectable per ch., 100, 63, 45, 32 V; Amplifier gain selectable (all channels) – rear-panel switches 29, 32, 35, 38 dB; Approvals from CE, ANSI/UL 60065 (ETL), CSA C22.2 NO. 60065, FCC; ROHS compliant etc.	No.	1			Rs. -
45	Audio DSP	Digital Signal Processor with AEC, fixed I/O server with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, complete audio system that delivers rich functionality with improved audio performance, enhanced management, and simplified configuration for audio conferencing and sound reinforcement applications, RS-232 serial port, 4-pin GPIO, 2-line OLED display with capacitive-touch navigation, System configuration and control via Ethernet, Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering and delay, CE marked, UL listed, and RoHS compliant etc.	No.	1			Rs. -
46	Wireless Handheld Microphone	UHF true diversity wireless system, cpl. with UHF Diversity Receiver and Handheld Transmitter, PLL, pilot tone, ACT/SCAN-function, 16 pre-programmed frequencies, incl. softcase, batteries, rack mount brackets and switching power supply	No.	2			Rs. -
		<u>Rugged 9.5" metal housing</u> <u>16 pre-programmed UHF frequencies</u> <u>AutoScan/ACT-function</u> <u>PLL-synthesised technology</u> Adjustable Squelch This function allows you to make fine adjustments to the squelch. This is mostly necessary when several wireless systems are used simultaneously and there is interference on individual channels. Pilot tone recognition Pilot tone recognition allows the receiver to remain inactive until the transmitter is switched on. This prevents unwanted noise. Removable antennas (TNC), antenna sockets with power supply (+8 V) for remote antenna amplifiers. <u>Rugged 9.5" metal housing</u> <u>16 pre-programmed UHF frequencies</u> <u>AutoScan/ACT-function</u> <u>PLL-synthesised technology</u> Adjustable Squelch This function allows you to make fine adjustments to the squelch. This is mostly necessary when several wireless systems are used simultaneously and there is interference on individual channels.					

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
		Pilot tone recognition Pilot tone recognition allows the receiver to remain inactive until the transmitter is switched on. This prevents unwanted noise. Removable antennas (TNC), antenna sockets with power supply (+8 V) for remote antenna amplifiers. Ergonomic design Housing with non-slip rubber pad					
47	Equipment Rack	Equipment Rack for placing AV Devices complete with power strip, cooling fan, back and front door (lockable) alongwith equipment rack tray & wheels etc.	No.	1			Rs. -
48	LED Display with Mounting Bracket on Wall for Other Misc. Room / Technical officer Room	40-inch LED Display, Type 60 Hz LED BLU, Resolution 1920 x 1080 (16:9), Pixel Pitch(mm) 0.15375 mm (H) x 0.46125 (V), Active Display Area 885.6 mm (H) x 498.1 mm (V), Brightness 350nit, Contrast Ratio 5,000:1, Built in Speaker (10 W + 10 W) Inputs: Analog D-SUB, DVI-D, HDMI, Component (CVBS Common), RS-232C remote control etc.	No.	8			Rs. -
49	HDMI Cable	HDMI cable with Ethernet 10 Meter Long etc.	No.	10			Rs. -
50	CCTV Surveillance System						
a		Supply, Installation, Testing Comm of 2 MP, IP Dome IR Camera, General Specs Are: 2 Megapixel weather proof IR bullet camera, 1/3" progressive scan CMOS,20-30Meter IR beam distance,TDN,2.8-12 mmlens,IP 66,H.264,12V DC, ONVIF ,PoE all accessories included	No's	40			Rs. -
b		Supply, Installation, Testing Comm of Network Video Recording Storage System: Supports 32 channelD1/16CH/720 P/8CH 1080 P/4 CH 3Megapixel NVR,8 HDDs max 32 TB,RAID,Hot Swap, 2 e sata, ONVIF complaint with all accessories.	No's	2			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
c		Supply, Installation , Testing Comm of HDD, Video surveillance series HDD / (enterprise) (4TB)	No's	12			Rs. -
d		Supply, Installation , Testing Comm of CCTV Workstation with Video Management Software's, . The workstation shall have the following specifications :- Processor Intel ® i3 with internal memory of 4 GB RAM. Operating system & Client software for cameras viewing included , All software's must be original and with Likens , Preferred Make is DELL/ HP , must include all the Video Management Software's,	No's	1			Rs. -
e		Supply, Installation , Testing Comm of CCTV Monitor Display, 40" LED Display , Direct-Lit LED Full Connectivity Integrated HDTV Tuner Smart Signage Platform, with 1. HDMI IN2. DVI IN3. USB4. AV IN / COMPONENT IN 5. RGB IN6. AUDIO OUT 7. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN8. ANT IN9. RJ4510. RS232C (OUT / IN) 11. POWER ,	No's	2			Rs. -
f		Supply laying, testing and commissioning of CAT6 Cable, for camera in PVC conduit	Mtrs	3500			Rs. -
g		Supply, Installation , Testing Comm of managed Switch: 24 Port High POE Giga Bit Switch with Optical Fiber connectivity along with installation and termination of SFP ports in switches.	Nos	2			Rs. -
h		UPS back up for complete system 6 KVA with 30 Mins Back up	Set	1			Rs. -
i		Supply, Installation , Testing Comm of Field Racks , 12 U Racks with accessories , power units/PDU, Patch Cables, Connectors	Nos	2			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
j		Supply, laying, testing and commissioning of Patch Panel , Cat 6, 24 port rack mountable Patch Panel loaded	Nos.	2			Rs. -
k		Supply, laying, testing and commissioning of CAT 6 Patch Cord, Blue Jacket Rack Side - 1 mar,	Nos.	2			Rs. -
l		Digital EPABX System having eight telephone lines input & minimum 50 lines output, CLI on extension (Digital & Analog), CLI on any turn line Analog or ISDN, Built in battery Charger, Built in DOSA, Walking class of service with multiple passwords, Dial by name, 32 party conference, 100 pair capacity Main Distribution frame including 24 line key telephone digital operator console (01 No.) & Analog Phone with CLI for 50 Extnensions) etc.	Lot	2			Rs. -
51	Digital EPABX System						
B.1	Digital EPABX System	Digital EPABX System having eight telephone lines input & minimum 50 lines output, CLI on extension (Digital & Analog), CLI on any turn line Analog or ISDN, Built in battery Charger, Built in DOSA, Walking class of service with multiple passwords, Dial by name, 32 party conference, 100 pair capacity Main Distribution frame including 24 line key with 24 line key telephone digital operator console etc.	Lot	2			Rs. -
B.2	Intercom Instrument	Caller ID phone with CLI with th 5 one touch memory etc.	Each	100			Rs. -
B.3	Telephone Cables	Telephone cable etc.	Meter	300			Rs. -

SI. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
	Control Devices						
52	B.1	Six Input HDCP-Compliant Scaling Presentation Switcher	No.	1			Rs. -
53	B.2	Furniture-Mountable Enclosure for Cables, AAPs	No.	2			Rs. -
54	B.3	VGA Molded Connectors with Audio Cables	No.	2			Rs. -
55	B.4	HDMI Cable	No.	3			Rs. -
	Audio Conferencing						
56	C.1	Conference Controller	No.	1			Rs. -
57	C.2	Chairman Microphone	No.	1			Rs. -
58	C.3	Delegate Microphone	No.	14			Rs. -
59	C.4	Connecting Cables-66 feets	No.	1			Rs. -

Sl. No.	Item	Description	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
Sound Reinforcement System							
60	D.1	Audio DSP	No.	1			Rs. -
61	D.2	FOH Speakers	No.	2			Rs. -
62	D.3	Audio Amplifier for FOH Speakers	No.	1			Rs. -
63	D.4	Ceiling Speakers	No.	8			Rs. -
64	D.5	Audio Amplifier for Ceiling Speakers	No.	2			Rs. -
Services							
65	E.1	Equipment Rack	No.	1			Rs. -
SUB TOTAL							Rs. -

Note: It is confirmed that the rate quoted above for various Items shall be valid for the specification, makes and others details and Terms & Condition mentioned in the tender documents .