

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB

NAME OF THE WORK :- SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF AUDIO VIDEO SYSTEM AT AUDITORIUM OF DEOGARH COLLEGE IN THE DISTRICT OF DEOGARH.

BID REF NO :-50/PM/ELECT/OPHWC/2022-23

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	AUDIO SYSTEM				
2	Supply of 12" passive loudspeaker, 1.5-inch DH-1K titanium HF compression driver, 55 Hz – 20 kHz frequency range, 90° x 50° coverage-pattern waveguide, 60° Monitor Angle, 94 dB SPL sensitivity; 132 dB max SPL, Power handling: 250 W continuous, 1000 W peak, Braced 15mm plywood enclosure. (Approved Makes: d&b Audiotechnik, Meyer Sound, Electro-Voice-Model-ELX112, BOSCH)	No	2	49,660.00	₹ 99,320.00
3	Supply of 18" passive subwoofer, 35 Hz – 200 Hz frequency range, 134 dB max SPL, Power handling: 400 W continuous, 1600 W peak, Braced 15mm plywood enclosure Nominal Impedance 8 Ohms, Minimum Impedance 6.7 Ohms (Approved Makes: d&b Audiotechnik, Meyer Sound, Electro-Voice-Model-ELX118, BOSCH)	Nos	2	79,460.00	₹ 1,58,920.00

4	Supply of Surround Speaker Dual 6" 2-way surface-mount loudspeaker,Frequency Response ¹ (z -10 dB) 62 Hz - 20 kHz,Power Handling ² 300W Cont. Prog./600W Peak,Sensitivity ³ 94 dB, 1W/1m,Impedance 8 ohms,Max SPL 118 d,Horizontal Coverage ⁴ 100°,Vertical Coverage ⁴ 80°,Crossover Frequency 1.6 kHz,LF Transducer 2 x 6" (100 mm),HF Transducer 1" (25 mm) along with Wall Mounting bracket .(Approved Makes: d&b Audiotechnik, Meyer Sound, Electro-Voice-Model-EVID 6.2,BOSCH	Pair	2	86,540.00	₹ 1,73,080.00
5	Supply of Powered Stage Monitor 12" Powered Speaker,1000 W (Class D); 126 dB max SPL; 50 Hz – 20 kHz,Coverage (Hort. x Vert.) 90° x 60°,12" woofer and 1.5" high-frequency titanium compression driver. (Approved Makes: d&b Audiotechnik, Meyer Sound, Electro-Voice-Model-ZLX 12P-230V,BOSCH	Nos	2	57,910.00	₹ 1,15,820.00
6	Supply of Cabinet loudspeaker, 30W, Premium-sound Cabinet Loudspeaker,Maximum power 45 W,Rated power (PHC) 30 W,Power tapping 30/15/7.5/3.75 W,Sound pressure level at rated power / 1 W (1 kHz, 1 m)-105/90 dB (SPL),Effective frequency range (-10 dB) 100 Hz to 19 kHz,Opening angle at 1 kHz / 4 kHz(-6 dB)-166° / 83° (hor.), 140° / 76°(ver.),Rated input voltage 15.5/70/100 V,Rated impedance 8/163/333 ohm,Transducers 127 mm (5") woofer, 13 mm,(0.51") dome tweeter,Connection 2 m (78.8 in.) two-wire cable. (Approved Makes: d&b Audiotechnik, Meyer Sound, Bosch-Model-LB2-UC-30 , Electro-voice	Nos	2	11,410.00	22,820.00

7	Supply of 2 channel class D/H Power amplifier with built in Audio Digital Signal Processor, a Maximum Output Power $\geq 900W@8$ ohms, $\geq 1750W@4$ Ohms for single channel operation;Max Bridged Output Power $\geq 5500W@4$ ohms,Frequency Response (+/- 1dB) ref. 1 KHz:15Hz - 20 KHz,Max input level:+21dBu,Crosstalk< - 80dB,input impedance:20kohm,signal to noise ratio >109 dB,with built in Digital Signal processor like - 31 Band Graphic Equalizer per channel, Parametric Equalizer per channel, Output delays, Audio Limitters, Audio Filters (Approved Makes: Powersoft, Electro-Voice, Dynacord - Model-L3600FD Lab Gruppen,BOSCH	No	1	1,63,170.00	₹ 1,63,170.00
8	Supply of 2 channel class AB Power amplifier with built in Audio Digital Signal Processor, a Maximum Output Power $\geq 330W@8$ ohms, $\geq 650W@4$ Ohms; Max Bridged Output Power $\geq 1800W@4$ ohms,Frequency Response (+/- 1dB) ref. 1 KHz:15Hz - 20 KHz,Max input level:+21dBu,Crosstalk< - 80dB,input impedance:20kohm,signal to noise ratio >103 dB,with built in Digital Signal processor like - 31 Band Graphic Equalizer per channel, Parametric Equalizer per channel, Output delays, Audio Limitters, Audio Filters (Approved Makes: Powersoft, Electro-Voice, Dynacord-Model- L1300FDLab Gruppen,BOSCH	No	1	84,470.00	₹ 84,470.00
9	24-Channel Mixing Console,16 Mic Inputs with 48V Phantom Power and HPF per Channel,24 Line Inputs (16 mono and 4 stereo),6 AUX Sends + 2 FX Sends4 GROUP Buses + ST Bus,2 Matrix out,1 Mono out (Approved Make - Yamaha Model MGP24XU , Midas,Soundcraft,BOSCH	No	1	96,500.00	₹ 96,500.00

10	Supply of Corded Vocal Microphone with Dynamic neodymium magnet based microphone element with frequency response of 32Hz-17kHz or better ,Cardioid polar pattern,sensitivity of ≥ 2.3 mV/Pa ,Dynamic Range > 140 dB, rated impedance of 350 ohm, with Switch (Approved Makes: Audio Technica, Senheiser, Electro-Voice Model-ND76S,BOSCH	Nos	2	20,650.00	₹ 41,300.00
11	Supply of Dynamic Supercardioid instrument Microphone with Freq. Response : 70 Hz – 17 kHz or better, Sensitivity ≥ 2.3 mV/pascal, Dynamic Range >140 dB, Impedance: 350 ohms (Approved Makes: Audio Technica, Senheiser, Electro-Voice Model-ND46,BOSCH	Nos	2	24,200.00	₹ 48,400.00
12	Supply of Freestanding Gooseneck Mic with base for podium having dual condenser back electret microphone element ,Selectable Omnidirectional/ Cardioid/ Supercardioid/ Hyper Cardioid polar pattern,LED status display and with programmable button for Push to Talk or Push to Mute functions having ,frequency response 50Hz-20kHz ,sensitivity 5.5mV/Pa,clipping level >125dB SPL ,output impedance 200 ohm, Dynamic Range > 100 dB.PC Desktop-18 (Approved Makes: Audio Technica, Senheiser, Electro-Voice Model- ,BOSCH	No	1	60,940.00	60,940.00
13	Supply of Handheld Wireless Mic with Cardioid polar pattern for transmitter,Dynamic microphone with Neodymium magnet , Receiver frequency response 80Hz-18kHz,Receiver RF sensitivity < 1.0 μ V,Receiver Image rejection>55dB,Receiver Dyanmic range >95dB and receiver having 32 channels possible,Receiver S/N ratio >100dB A,distortion <1 % , Transmitter sensitivity - 3.2 mV/Pa,modulation:+/-40kHz (Approved Makes: Audio Technica, Senheiser, Electro-Voice Model- R300-HD ,BOSCH	Nos	2	42,500.00	85,000.00

14	Supply of Wireless Lapel Mic with omnidirectional polar pattern for transmitter,Connector Type 1/4 inch unbalanced, 3-Pin XLR balanced,Number of Channels -32 Per Band, 8 Simultaneous,Diversity True Antenna,Squelch- Tone code plus Amplitude,Receiver Type Synthesized PLL,RF Sensitivity (12 dB SINAD)- less than 1.0uV,Audio Frequency Response- 80 Hz - 18kHz +/- 2dB,Balanced Line Level Output (RMS Adjustable)- 10 - 100mV,Distortion (@ 1 kHz, 40 kHz deviation)- less than 1.0, 0.4 typical%,Dynamic Range - greater than 95 dBdB,Power Supply 12 VDC, 500 mA max,Polar Pattern Cardioid,Battery Life 14 Hours with (2) AA alkalines typical,RF Output 8 mW Typical (Approved Makes: Audio Technica, Senheiser, Electro-Voice Model-R300-L,BOSCH	No	1	42,500.00	₹ 42,500.00
15	Dupply of 27U equipment rack,with cooling fan,4 nos power distribution Box,cable manager,front Glass door ,castor wheels,lock and Key.(Make:Netrack/ Valrack/ APW)	No	1	39,800.00	₹ 39,800.00
16	Supply of Microphone Stand (Make- Reputed)	Nos.	4	5,200.00	₹ 20,800.00
17	Suppy of 2 Core 1.5Sqmm High-conductivity	Mtr	500	120.00	₹ 60,000.00
18	Various Connectors for connecting equipments	Lot	1	25,000.00	₹ 25,000.00
19	Supply of 8 pair Analog Audio Snake Cable,24AWG standed(7x32) TC conductor,Polyolefin insulation,individually shielded ,number or color coded PVC jackets ,jackets and shields bonded to strip simultaneously over all shield and 24 AWG TC drain wire.(Make:Krystal/ Falcon/Belden)	Mtr	50	380.00	19,000.00
20	Supply and Fixing of 8 XLR socket panel including sockets on the stage wall/Floor as required.(Make:Pro-Media/Custom)	Nos.	2	18,900.00	₹ 37,800.00
21	Includes installation of equipments. Testing, commissioning of audio system.	Job	1	70,000.00	₹ 70,000.00
				TOTAL RS.	₹ 14,64,640.00
	VIDEO SYSTEM				

1	Supply of Projector of Brightness 6,000 ANSI Lumens,Resolution-1920x1200,Aspect Ratio-16:10 (WUXGA),Display Type-2 cm DLP x 1,Color Processing-10-bit,Video Modes-720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i,Data Modes -MAX 1920x1200,3D Modes,Full HD 3D,Lamp Type,Laser Phosphor,Lamp Life-20,000 hours / 70,000 hours (Eco),Included Lens-1.65x manual zoom , manual focus,Lens Shift-Horizontal +/-2.50% & Vertical +10% / -2%,Throw Distance-1.2 m - 7.4 m Calculate Throw,Distance,Image Size-75 cm - 763 cm,Throw Ratio-1.15:1 - 1.90:1 (D:W),Digital Zoom,Digital Keystone-Horizontal & Vertical,Projector Size-16 cm x 36 cm x 45 cm ,Audible Noise-38 dB / 34 dB (Eco),Internal Speakers-5.0 Watts × 2,Power-530 Watts 100V - 240V	Nos.	1	3,45,900.00	₹ 3,45,900.00
2	Supply of Motorized Projection Screen having Wide Format, Dimensions: 16'X9',Tensionong System for optimum Image quality.(Make:Suvira/Liberty/Dalite /Logic)	Nos.	1	1,75,900.00	1,75,900.00
3	Supply of Projector Heavy Duty Ceiling Mounting Kit for Suspension from Roof. (Make:Custom)	Nos.	1	72,700.00	₹ 72,700.00
4	Supply of Hydraulic Pop-Up Box having Multi-connectors for data and power connection,HDMI. Connectors: 2x power, 1x RJ45 HDMI, 1x VGA, 1x 3.5mm audio Jack 1x Video ,Hydraulic (pneumatic) open close movement , with bottom box (REPUTED)	Nos.	1	18,600.00	₹ 18,600.00
5	Supply of HDMI Cable of 20mts with moulded HDMI connectors at both ends for HD Audio and Video (WS)	Mtr	1	8,900.00	₹ 8,900.00
6	Includes installation of equipments. Testing, commissioning of video system.	Job	1	35,000.00	₹ 35,000.00
				TOTAL RS.	₹ 6,57,000.00
				Sub Total Rs.	₹ 21,21,640.00
				Cess @ 1%	₹ 21,216.40
				Total Estimated Cost	2142856.40
				Total Estimated Cost in Figures	2142856.00

EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	_____%
Quoted Amount in Figure		
Quoted Amount in words		

N:B- The Estimated cost is exclusive of GST .

Signature of Tenderer with seal

**Sd/-
Asst. Project Manager[Elect.]**

**Sd/-
APM (Elect.) Hqr.**

**Sd/-
Project Manager(Elect.)**