

TV Studio, Community Radio Station (CRS) Internet Radio Equipment's and Studio Lightings at PAH SOLAPUR UNIVERSITY

Sl.no	Item Description	Make	Model	Qty
A	TV Studio			
1	3 x 1/3" or 3 x 1/2" CMOS sensor HD Camcorder with all essential accessories: Pick up Device : 3- chip 1/3" or 3 Chip 1/2-inch type MOS Image Sensor Effective number of pixels: 1,920(H) X 1,080 (V) Horizontal Resolution: 1000 TV lines or better Signal to Noise Ratio: 60 dB or Better Preferred shutter Speed (sec.) : 1/32 sec to 1/2,000 sec Iris Control: Auto / Manual switchable Gain selections: -3dB to 24dB or better Zoom ratio : 16x (Optical) or better Audio & Video Input / Output : Genlock in : BNC (x1) ,1 Vp-p, 75 Ohms Video out : BNC (x1) HD-Y or Analog composite SDI out : BNC (x2), HD-SDI/SD-SDI selectable HDMI out : HDMI Type A Viewfinder: 3.5-inch - type color LCD monitor: 16:9 Audio input : Mic / Line selectable XLR 3 pin x 2 RCP interface connector Recording Media : Memory card / SxS card or P2 card Recording Format: Includes Full HD (1920 x 1080) (AVC Intra or XAVC). The bidder should provide camera with all essential accessories: Recording Media (2 No's) lens, lens hood with cap, 3.5" LCD monitor, Battery pack, charger, AC adopter, 64 GB Memory Card: 2 Nos, suitable remote zoom and focus lens control, Tripod attachment for the video camcorders, shotgun Electret condenser microphone, cables & connectors along with suitable soft carry case.	Panasonic, Fujinon, Azden, Customized	AJ-PX380G, AJ-CVF25, AJ-P2M064BG, MS01, SGM-PDII	2
1.a	Tripod plate suitable for above camcorder			2
1.b	Battery with battery charger	Fxlion	BP-1900,PL-4680B,XH-BP-N	2
2	Card reader	Panasonic	AU-XPDI1AN,AJ-P2AD1G	1
3	HD-SDI to HDMI Converter	BMD	Micro Converter SDI to HDMI wPSU	2

4	<p>Tripod with dolly suitable for above camcorder with tripod plate Two stage aluminium or carbon fibre tripod: Load capacity: 30Kg. Approx. Bowl: 100mm Minimum Height: 65cm or less Maximum Height: 150cm or more Studio Skid/ Dolly: Wheel diameter: 10/12.5cm Payload: 30kg or more Weight: 7 Kg Cable guard: Yes Break: Yes Tripod, pan and tilt head, dolly with zoom control and all accessories offered should be capable to take load of camera and teleprompter which is put together 30 kg (approx.) to operate in the studio setup.</p>	Libec	RSP-850,PH-8B,DL-8RB	2
5	<p>Digital Video Production Switcher Detailed functionalities: Video Inputs: Multi-definition inputs (3G/HD/SD): 9 Nos (6 x SDI, 3 x HDMI) simultaneous live video sources. Should support 6 freely-assignable Frame Syncs & Format Converters. Video output: Multi- definition outputs: 6 Nos (5 x SDI, 1 x HDMI) Built-in Multiviewer (Up to 10 windows) with tally & source name and frame synchronizer. Should support single-channel clip player built in directly into the production switcher, for simple playout of video clips directly from a connected USB-media drive</p>	Ross	CB-SOLO	1
6	<p>Lapel Microphone Transducer Principle: Pre-polarized condenser Frequency Range:40–18,000 Hz or better Polar Pattern: Omni-directional Sensitivity: Sensitivity at 1,000 Hz: 7 mV/Pa Sound Pressure Level for 1% THD:110 dB or better S/N Ratio (A-weighted): 60 dB or better Power Requirement: 9–52 V phantom power</p>	AKG	C417PP	3
7	<p>Wireless Lapel Microphone Receiver Switching bandwidth:≤ 30.5 MHz Sensitivity:6.3 dBμV / -100 dBm Diversity System: Microprocessor-controlled diversity Modulation: Wideband FM Audio bandwidth:40 – 18 000 Hz or better T.H.D.:0.3 % SNR:110 dB or better Audio outputs: 1 x XLR sockets balanced, 1 x TS ¼” / 6.3 mm jack sockets unbalanced. Transmitter (Battery Operated) Switching bandwidth:≤ 30.5 MHz RF output power:10 or 50 mW Modulation: Wideband FM Audio input:TB3M / 3-pin mini-XLR socket (max. 2.5 Vrms) Audio bandwidth:40 – 18 000 Hz or better T.H.D.:≤0.7 % SNR:> 120 dB. Lapel Mic Condenser lavalier microphone:Cardioid Polar Pattern Audio frequency bandwidth:150 - 18000 Hz Signal to Noise:≥ 60 dB</p>	AKG	WMS470PT	1

8	In Ear Piece Element: Subminiature Magnetic Receiver. Frequency Range:200Hz - 8kHz. Sensitivity:104+/-3dB. Impedance:500 Ohm. Distortion5% max. Colours: beige. Cable: Length 1.5m (59") Ø 1.5mm. Connector3.5mm Stereo Connector	Telex	CES-2	2
9	Speaker on studio floor + PCR(editing) Type Active Low/mid driver 6" or more dimensions: Tweeter dimensions (mm)25 mm or better RMS: (Both LF + HF) ≥ 80 watt Frequency response ≤85 Hz - ≥ 15000 Hz Max. SPL ≥ 100 dB Controls: HF Trim and Volume Inputs: 1 x XLR female, 1 x TRS female, balanced Operating voltage: 230 V A C ± 10% , 50 Hz Cabinet material: ABS/ Polypropylene / MDF	JBL	306PMKII	2
10	16 Channel Audio Mixer 16 channel, true 7-bus architecture, 2 stereo inputs, 2 stereo returns, talkback facility, +48 phantom power, 12- segment LED metering, 100mm fader, 6 aux sends,4 of which are pre/post switchable, group and mix inserts, channel direct outputs	Soundcraft	LX7ii -16	1
11	49" Full HD LED Display with stand Visible screen size 49" Panel: LCD/LED HDTV display capability: 1080i (Full HD), 576i Display resolution: 1,920 (W) x 1,080 (H) Video inputs: USB, composite, VGA, HDMI at least one compatible with vision mixer Power supply: To operate at 230 V ±10%, 50 Hz AC. Mounting: wall mount with moving pedestal stand	Panasonic	LH-49RM1	1
12	32" Full HD LED Display with stand Visible screen size 32" Panel: CD/LED HDTV display capability: 1080i (Full HD), 576i Display resolution: 1366 x 768 pixels Video inputs: USB, composite, VGA input, HDMI at least one compatible with vision mixer (or through Converter) Power supply: To operate at 230 V ±10%, 50 Hz AC. Mounting: wall mount with moving pedestal stand.	Panasonic	LH-32RM1	1
13	8-way intercom with 2 sets of Belt pack with 20 mtr Frequency Response: 550-3.6 kHz, <+/- 3dB THD: < 3% S/N: > 50dB Built-in Speaker: 70mm x 30mm 32 Ohm 3 Watts Operating Range: Up to 200 meters between base station and slave Power: DC 12V, 8W MIC / Headset: 3.5 mm Stereo Jack Socket for Headphone /Microphone combination Headset Impedance 8-600 Ohms 100 mW (min) Headphone: ¼" (6.3mm) Stereo Headphone Socket, Headset Impedance 8-600 Ohms 100 mW (min)	Datavideo	ITC-100,	1

14	Digital SD / HD-SDI Video Distribution Amplifier • Reclockable SDI inputs • SD/HD through SDI Minimum 1 IN and 4 OUT Headphone Type Closed-Back, Dynamic Frequency Range 20Hz - 20kHz Impedance 55 Ohms Sensitivity 91dB Maximum Input Power 200mW Connectors Gold-Plated 3.5mm Stereo Mini Plug with 1/4" Adapter	BMD	Mini Converter SDI Distribution	1
15	Headphone Type Closed-Back, Dynamic Frequency Range 20Hz - 20kHz Impedance 55 Ohms Sensitivity 91dB Maximum Input Power 200mW Connectors Gold-Plated 3.5mm Stereo Mini Plug with 1/4" Adapter	AKG	K52	2
16	Teleprompter: Display Device Specification Display Device Size: 19" LCD/LED Monitor TP hood with complete tripod mounting assembly Reading Range : Up to 10 meters Video Input: VGA/ PAL System Requirement Operating System: Windows XP(32 bit or 64 bit) Windows 7(32 bit or 64 bit) Min 2.6Ghz CPU ; 2 GB RAM; 1 Free PCI Express Slot(For Desktop) , Antivirus licensed for one year. Software : Breaking News ,Type N Play ,Import RTF/Doc/Html/Txt ,Import Run Downs , Reader Management, Anchor Messages ,Multi Camera Support, Background Colour Selection ,Date & Time Display ,Bookmarks , Timer ,Auto Detect and import files ,Run Time Script Editing ,Run-Time Run order Updation ,Block Story ,Clip Reference ,Multilingual Support , CDAC software for multi-language support. import .rtf and .doc files into the run orders. USB Hand Control unit Required cable and media driver should be available to complete the system	Samvad, HP	SAMVAD Professional 19", Desktop Hand control,HP 280 G4	1
17	HD/SD Digital Video Recorder & Player HD/SD SDI input, output and loop through with embedded audio. HD/SD SDI and HDMI output Minimum 2 X 500GB HDD with enclosure USB & SATA interface Compatible Audio/Video interface with Camera as well as audio and vision mixer. XLR Balance Audio input and output Table top Mounting Recording format (SD, HD) Additional Four number 500GB HDD	Datavideo	HDR-60,500GB-MC	1

	Required Installation Materials such as cables, connectors, converters, patch cables, power chords, etc. including Testing, Installation, & Commissioning charges with training Services			
B <div style="text-align: center;"> RADIO STATION (CRS) & INTERNET RADIO </div>				
1	Channels:12 Channel Audio mixer Inputs - Mic Preamps:8 input Preamps for Mic Inputs - Line:10 Line Input EQ Bands: 3-band EQ with a swept mid band Aux Sends: 3 configurable auxiliary buses Connectors: XLR-type and ¼" metal jack connector sockets Other: Inputs/ Outputs RCA phono stereo playback inputs and record outputs Metering: Ten-segment LED output metering Design: Intuitive and comprehensive solo system USB connectivity: USB/Interface 2-in/2-Out Headphone out: Headphone output 1 x 1/4"	Sound craft	Signature-12	1
2	Work Stations with Antivirus: Intel® Core™ i7-6700T (2.8 GHz, up to 3.6 GHz, 8 MB cache, 4 cores), 8 GB DDR4-2133 SDRAM (1 x 8 GB), window 10 OS, 2 TB 7200rpm SATA, 24-inch monitor, speakers: 2 Nos, Keyboard, mouse Antivirus with 1-year license	Dell	Dell OptiPlex 7070	2
3	2 Channel Sound Card Sample rates (kHz): 44.1/ 48/88.2/ 96/ 176.4/192 Maximum input: +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV (-10 DBV setting) Dynamic range: 99 dB @ (A-weighted) THD + N: Less than 0.0024%, (at 0 dBFS) Frequency response: 20Hz to 20kHz ± 0.3dB Impedance: 10k Ohms minimum Maximum output: +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV Dynamic range: 103dB (A-weighted) THD + N: Less than 0.0015%, (at 0 dBFS) Frequency response: 20Hz to 20kHz, ± 0.3dB Impedance (unbalanced): 150 Ohms	Digigram	VX222e	2

4	Speaker with Mount Stand Type Active Low/mid driver 6" or more dimensions: Tweeter dimensions (mm)25 mm or better RMS: (Both LF + HF) \geq 80 watt Frequency response \leq 85 Hz - \geq 15000 Hz Max. SPL \geq 100 dB Controls: HF Trim and Volume Inputs: 1 x XLR female, 1 x TRS female, balanced Operating voltage: 230 V A C \pm 10% , 50 Hz Cabinet material: ABS/ Polypropylene / MDF	JBL	306PMKII	4
5	Headphone Frequency range: 20- 22000 Hz Electrical impedance: less than 75 ohms/channel Sensitivity at 1khz: 100 db spl at 1mw input Max power handling Capacity: 100 mw total harmonic distortion: 0.5% at max. Permissible input level. Headphone diaphragm material: hard polyvinyl chloride or similar ear- pads material: leatherette and velvet Average pressure on ears: max 4/6 n Cord length (may be detachable): at least 5 meters Phone plug: gold plated stereo mini jack (3.5 mm) with gold plated screw- on adaptor (3.5 mm to 6.35 mm) Head-strap: Adjustable. Max power handling capacity: 100 mw total harmonic distortion: 0.5% at max. permissible input level	AKG	K-240 MKII	4
6	Recording/Editing Software	Adobe	Audition (1 year sub scription)	1
7	On AIR Light	Comcon	OA1000	2
8	Play out software	ATC-Labs	ATCMP	1
9	Condenser Microphone Transducer type: Pre-polarized backplate condenser Frequency response: 20 - 20 kHz Polar pattern: Cardioid Power requirements: 9 - 52 Vdc Impedance: 200 ohms Recommended load impedance: >2000 ohms Output connector: Gold plated XLR-M Sensitivity: 6 mV/Pa; -45 dB (re 1 V/Pa) Sound	AKG	C5	1

	<p>pressure level for 1% (3%) THD: 139 dB SPL (142 dB SPL) Equivalent noise level: 17.5 dB-A to DIN 45412 Dynamic range: 121.5 dB Environmental operation: Temperature: -10°C to +65°C Maximum relative humidity at +20°C: 90% Size: Maximum diameter: 2.0 in. (50 mm) 7.1 in. length (180 mm) Net weight: 10.4 oz. (295 g) Shipping weight: 1.4 lb. (650 g) Accessories included: Carrying bag PB 1000 presence boost adapter SA 61stand adapter Optional accessories: TM40 UHF transmitter module, AKG WMS 40 Series wireless receivers B15 phantom adaptor</p>			
10	Flexible Arm Stand for microphones	Neewer	NB-35	1
11	<p>Cardioid Microphone Pattern: Cardioid/super Cardoid pattern Response: on/ off axis and proximity response Frequency range: 50 hz to 15 khz Frequency response: the microphone shall have ± 3 db frequency response over a range of 150 hz to 1.2 Maximum peak with reference to 1khz: maximum +10 db Polar pattern: Cardioid/super cardioids. Front to back ratio: at least 10 db from 250 Hz to 4 kHz. Sensitivity: less than or equal to 600 ohms for connecting to audio input Output impedance: less than or equal to 600 ohms for connecting to audio input of load impedance greater or equal to 2000 ohm.</p>	AKG	D5S	3
12	Microphone Table Top Stand	Ahuja		3
13	<p>Field Recorder Recording media: 2 Gb (or higher) semi-conductor memory Recording format: PCM linear digital format (.wav file format) Power: (a) Internal battery AA or AAA for at least 90 minutes continue recording, (b) internal chargeable battery along with charger Input: (a) with a built-in /externally attached stereo microphone, (b) provision for connecting external microphone(c) provision for line input Output: Connectivity through usb 2.0 to audio workstation for data transfer Monitoring: Provision for headphone monitoring Measurements:</p>	Zoom	H1N	2

	frequency response at nominal input and output levels w.r.t. 1 kHz and from 50 hz to 15 khz: within $\pm 3\text{db}$ b).thd + noise at -60 dbu input level and 0 dbu output level (50 hz.to 15 khz.)			
14	Audio Processor/SITC of 10 band internet streamer signal generator/ N-encoder analogy input/output, internet steaming setup, Sound Max Manager, software for remote operation, Android application, Universal Web player, Radio Garden Connectivity Audio Processor with in-built Encoder/streamer ready for hosting on CDN platform: 10 bands audio processing technology with built in audio streaming for MP3 and AAC, Analog and Digital Input/output on XLR connector, Separate profile tuning facility for On Air Processing and Internet streaming. Multiple bit rate selection from 32 to 128 kbps, RJ-45 connector Internet streaming should support to various platform of Desktop, Laptop, Tablet, iPad, Android phones or any such similar communication devices through internet. Multiplatform Universal web player code & 1-year flat CDN service	ATC-Labs	Perceptual Soundmax Q10-1111	1
15	Flat CDN Bandwidth for Unlimited Listener per Year (Bandwidth for Internet Radio)	ATC-Labs		1
16	Required Installation Materials such as cables, connectors, converters, patch cables, power chords, etc including Testing, Installation, & Commissioning charges with training Services	VTIPL		1

C **Studio Lightings**

1	100W LED Lens Panel Light having 3200K colour temperature, CRI,TLCI and R9 value above 96, High quality lamp sources, Flicker free pure light, No green tint, manual dimming through Knob, control mode:- Manual and 2/5 DMX control mode through 5pin/3pin xlr. Black powder coated fabricated housing with normal yoke and Colour Filter Frame but without accessories.	Leksa	LKP100T	4
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1.a	MS fabricated 4-leaf barn door for 100W Lens Panel Light.	Leksa	Customized	4
2	60W ENG lights complete with 2800K/5600K CCT 60W Chip On Board LED Lamp source, Manual control & Manual control & DmX 100% to 0% ,CRI & TLCI Value above 95, LED Display for CCT & Dimming Level, Black finish housing, IP20 protection with Barndoor, Diffuser, Stand and Bag.	Leksa	LK maxi 60CT	4
3	30W ENG lights complete with 2800K/5600K CCT 30W Chip On Board LED Lamp source, Manual control & Manual control & DmX 100% to 0% ,CRI & TLCI Value above 95, LED Display for CCT & Dimming Level, Black finish housing, IP20 protection with Barndoor, Diffuser, Stand and Bag.	Leksa	LK mini 30CT	4
4	Lighting Stand for Lens Panel Light 3 Section stainless stand with 16mm adaptor rotated by base extended height up to 8ft.	Leksa	Customized	4
5	3 Section ENG Light stand having maximum extension of 8 ~ 10 Feet provided with bottle and easy locking, release with black powder coated finish	Leksa	Customized	8
6	Installation Material and Installation charges with training Services	Leksa	VTI / Leksa	1