

**SREE AVITTOM THIRUNAL HOSPITAL**  
**Specifications for the Supply Reinstallation testing and commissioning of Digital**  
**Smart TV / Communication system**  
**Tender No. A1/ 175/2018/SATHHES**

Sealed competitive tenders are invited as per the tender details mentioned below for the execution of the work "Supply Installation Testing and Commissioning of Digital Communication System" in the SAT Hospital at various wards, OPD and waiting areas as per the following terms and conditioning.

- Last Date and time of issue of tender from : **21/01/2019, up to 04:00 p.m.**
- Last Date and time of receipt of tender from : **25/01/2019, 02:00 p.m.**
- Date and time of opening of tender from : **25/01/2019, 04:00 p.m.**
- Cost of tender document / tender fee : **Rs. 2500/- GST extra**
- EMD : **Rs.50, 000/-**
- The details of tender is available in [www.tmc.kerala.gov.in](http://www.tmc.kerala.gov.in)
  1. The work shall be on a 'turnkey' basis.
  2. All the sites shall be identified by the head of the institution.
  3. The work shall be under taken as per the stipulated specifications.
  4. The work shall contain;
    - a. Supply Installations Testing and Commissioning of Television sets
    - b. Networking for connecting the studio and viewpoints by means of OFC.
    - c. Supply of all necessary accessories instruments / equipments for Studio room.
    - d. Supply of furniture required for studio.
    - e. Electrical wiring for the Television units-extending of stabilised power supply from the existing points
    - f. Air-Conditioning of studio room.
    - g. Fabrication of studio room by renovating the existing room of size 20 sq.m (approx.)

S L N o	Item	Description	Qty.	unit
1	Televisio n	LED TV SIZE: 40 Inch diagonal(102cm) Resolution HD Operating system- Android LAN port -1 no warranty - 1 year replacement + 2 years' service - on site	10	nos
		LED TV SIZE: 32 Inch diagonal (81cm) Resolution HD Operating system- Android LAN port -1 no warranty - 1 year replacement + 2 years' service - on site	33	nos
2	Networki ng	Networking (surface wiring ) using OFC 4 core cable connecting studio room and terminating at 43 viewpoints (location sketch shall be given)	21 00	m
		HDMI splitter 1 x3	7	nos
		Network rack 4u	1	nos
		Rack FAN	1	nos

		Rack tray	1	nos
		Rack mount power supply	4	nos
		OLT optical line termination GEAPON OLT products is 1U height 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to be deployed in compact room environment. The OLTs can be used for “Triple-Play”, VPN, IP Camera, Enterprise LAN and ICT applications. 2GE (copper) and 2SFP slots independent interface for uplink, and 2*EPON OLT ports for downstream. It can support 128 ONUs under 1:64 splitter ratio.	1	nos
		1 meter HDMI	10	nos
		ONU, 1GE Secure ONU designed for fulfilling FTTH ultra-broadband access request of home and SOHO users. It is based on the stable and mature EPON technology, which has high performance/price ratio, and the technology of layer 3 Ethernet switch. It is high cost performance and easy to maintain, with Dual mode, Industrial design and Powerful firewall.	43	nos
		3 Meter HDMI	4	nos
		5 meter HDMI	4	nos
		Android box ,Android 7.1 TV Box 1GB RAM/8GB ROM Amlogic S905W 64 Bit Quad Core Wi-Fi 1080P Smart TV Set Top-Box	7	nos
		20 meter HDMI	2	nos
		16-Port Gigabit Desktop/Rackmount Switch (Black) TP-LINK/DLINK OR SIMILER	1	nos
		5 PORT switch	4	nos
		RJ45 Pin	1	box
		Fiber cabling charge		
		Metal box for LCD TV (32 inch, 40 inch) with clamp for ceiling / wall mounting with lock and key		
		Fibre termination box	50	nos
		Fibre splitter 3 way / 4 way	40	nos
		Fibre patch cord	50	nos
		Fibre SFP for OLT termination, EPON ONU, consistent with the IEEE 802.3ah PX20+ protocol, 1310nm 1.25G uplink downlink burst transmission, 1490nm 2.5G continuous receiving, 20km, transmission distance of the SFP package, SC/UPC plug type connector, commercial grade working temperature.	1	nos
		Network patch cord	50	nos
		Stay wire	1	coil
		Fiber Splicing	200	nos
3	Accessories Instruments / Equipments - Studio Room.	HDMI to IP streaming card - HD HDMI Encoder, Professional HD Video Coding for IPTV, HDMI . It supports 1 channel HDMI stream of H.264/H.265 encoding output , encoded stream compliant with HTTP/RTSP/RTP/RTMP/UDP ,with software	1	nos
		Desktop pc with i7 processor 7th gen ,2TB Hard disk,250gb SSD,16GB RAM, pci slot, pci express slot,HDMI,27 inch, LED monitor ,2 Gb graphics card,mother board with usb 3 support (For Video editing )	1	nos

Desktop pc with i3 processor,2TB Hard disk,250gb SSD,16GB RAM, pci, slot, pci express slot,HDMI, 22 inch,LED monitor, 1 GB graphics card ,mother board with usb 3 support (Video for streaming )	1	nos
HDMI capture Card- Capture card/box and play back in up to Ultra HD resolution supports Ultra HD 2160p at 30 fps and Full HD 1080p at 60 fps. Ingest HDMI, YUV, S-Video, and NTSC/PAL, HDMI INPUT AND HDMI OUTPT card, USB 3.0 Computers, Capture and Playback Professional Quality HDMI and Component Analog Video in Both SD and HD (Requires x58 based computer or better) 10 bit HD/SD editing solution, with software	1	nos
Sine wave UPS 2kv with 3 hours of battery backup	1	nos
Video management software ,suitable for 24/7 operation mode or news/commercial insertion frame accurate playing of mov, avi ,dv, mp4 and mpeg2 , SD, HDV & full HD mixed playlist , video + key playout for clips with alpha channel , station logo as full screen , possibility to display subtitles, software	1	nos
Power distribution box	4	nos
Audio mixer 10 channel,4 mic input, 10-Channel Mixing Console ,Max. 4 Mic / 10 Line Inputs (4 mono + 3 stereo) ,1 Stereo Bus ,1 AUX (incl. FX) ,“D-PRE” mic preamps with an inverted Darlington circuit	1	nos
Camera stand	1	nos
SD card reader	1	nos
32GB SD card	1	nos
Video camera DC in 8.4 volt, battery 7.2V , recording format XAVC SHD: MPEG 4/H 264 4:2:0 long profile, AVCHD: MPEG4 /H 264 AVCHD 2.0 format compatible DV, Audio recording format. XAVC S HD: linear PCM 2 Ch, 16 bit, 48 KHZ AVCHD: linear pCM 2 Ch, 16 bit, 48 KHz/Dolby digital 2 ch 16 bit 48 KHz DV: liniar PCM 2 ch 16 bit 48 KHz recording frame rate - XAV S (1920 x 1080) @ 59.94p, 29.97p, 23.98p, 50MBPS, AVCHD (1920 x 1080) @ 59.94p, PS mode (28 MBPS) AVCHD (1020 x 1980) @ 59.94i/29.97p/23.98p, FX mode (24 MBPS) FH mode (17 MBPS), AVCHD (1440 x 1080) @ 59.94i, HQ mode (9 MBPS), LP mode (5 MBPS), AVCHD (1280 x 720) @ 59.94p, FX mode (24 MBPS), FH mode (17 MBPS), HQ mode (9 MBPS), fixed lens mount, 20 x (optical) 40 x (clear image zoom) servo / manual, F= 4.1 - 82.0mm focal length, irish - F 1.6 (wide) F 3.4 (tele), auto flash manual selectable, focus - AF/MF selectable, image stabilizer - on/off selectable, shift lens, imaging - 3 chip 1/2.8 type, CMOS sensor.	1	nos
Light stand, umbrella, 1000 W Halogen light	2	set
Led light 12 V battery powered	1	nos
MIC stand	2	nos
XLR to RC cable	4	nos
RC to RC cable	1	nos
Head set	2	nos
MIC Dynamic Cardioid Vocal Microphone	3	nos
Speaker system (1 speaker with box)	1	nos
2.1speaker system	1	nos
RC cable	1	
Stereo female cable 5 meter	20	m

		EP to phono stereo	2	nos
		RC to EP female	1	nos
4	Furniture	Computer chair (Revolving)	6	nos
		Computer table	2	nos
		Junior officer's table	2	nos
5	AC	AC split 2 T.R with stabilizer, all copper	2	nos
6	Electrical wiring	6 Amps socket - 2 Nos. with switch	40	set
		Surface conduit wiring using rigid PVC pipe using 2.5/1.5/ 1 sqmm wire with earthing line. Appropriate size of cable shall be used in case to case where as rate shall be quoted for running meter in each case. Site shall be visited for preparation of estimate. Control accessories such as MCB, ELCB shall be install according to rules. rate for accessories shall be quoted separately.	600	m
7	Fabrication	Existing studio room by renovating the room to partition the room in to 2 to accommodate studio room sound proof with green background and telecasting room. Site shall be visited for preparation of estimate.	20	sq.m
<b>Estimated cost of work is Rs. 20,00,000/-</b>				

- The firm submitting the tender should have 5 years' experience in the field.
- The firm should have licence for cable TV installation obtained from Government of India.
- Certificates or authorised records of undertaking similar works within a period of 3 years in Governmental, semi-governmental and reputed institutions has to be furnished along with the tender.
- Quality of the materials, instruments and TV units etc. are to be off good standard. The nature quality, size Make and model are to be mentioned.
- Notification number of tender, work name should be written on the top of the envelope containing the tender.
- The rate quoted by the tenderer should be inclusive of GST and other taxes if any.
- A preliminary agreement as required in the store purchase manual should be submitted along with the tender in Kerala stamp paper worth Rs. 200/-.
- Performance guarantee of 5 % of contract value (agreed PAC) should be deposited on finalisation of the contract. 50 % of the performance guarantee will be in the form of B.G. The remaining 50% will be in the form of DD. BG will be released to the contractor 1 year after the completion of the work. The balance 50% of the performance guarantee will be released to the contractor three years after the completion of the work.
- The firm must have a branch office in South Kerala preferably in Thiruvananthapuram for the last three years. Number of staff / qualifications is to be mentioned at local office.
- The undersigned (The Secretary cum Treasurer SATHHES) will have the right to cancel the tender at any stage without assigning the reason thereof.
- The tender should be addressed to The Secretary, SATHHES, Medical College PO Thiruvananthapuram 695011
- \* All measurements are approximate
- \* Bill shall be submitted for actual quantity after measurement.
- \* All works shall be arranged without affecting routine functioning of the hospital
- \* Any Additional items other than mentioned above for the completion and commissioning of the system shall be quoted separately.
- \* All the debris/waste generated against the said work shall be removed from the site by the contractor.
- \* Samples required shall be submitted as per the requirement of the customer during

the process of the tender.

- \* The rates for civil / electrical work shall be at par with the CPWD rates and materials shall also be as per the same schedule.
- \* Warranty for the items other than specified shall be for a period of 1 year + 2 years service warranty.
- \* AMC/ CAMC rates for all items supplied / works shall be quoted separately.
- \* Period of completion shall not be more than 45 days from the date of handing over of site.