

Scope of work

IMSc Media Center Setup

The mini-studio setup to handle the following: Remote class room, one-to-one/ multi party VC sessions, streaming/broadcasting, remote interviews/via-voce/ meetings/ recordings etc., A/V recordings, uploadable recorded/converted media contents. Have a display, a projector, video cameras, a digital camera, a laptop, a desktop, a VC codec etc.,

Requirements:

- The Capture and record system consists of 2 nos of HD based PTZ (Pan,tilt,zoom) camera having IP video transmission/control-mangement without a separate encoder. A network switch is to be provided for connecting the 2 nos of IP HD integrated cameras to the network.
- The capture and recorder system are to be provided with converters like 3G-SDI to HDMI & HDMI to 3GSDI to connect to media switchers for broadcasting
- The capture and record system must have a capture card with provision for SD memory slots with required capacity for recording the videos captured through PTZ HD Integrated Cameras.
- The display system must consist of a high lumens projector with appropriate brightness and a projector screen is to be provided based on the room dimensions
- A scaling/presentation should be provided for connecting external inputs of high/low resolution to the output routed to projector and VC equipments
- A Wall plate with both HDMI & VGA facility are to be provided for connectivity to projector through presentation switcher
- Based upon the distance between wallplates, switcher and projector require transmitters/recivers are to be provided
- VC Codec with PTZ Camera is to be provided for videoconferencing purposes and displayed on the projector or LED display.
- Audio system must have the good capacity speakers to give audio output to be clear and uniform for the studio

- An audio DSP is to be provided to pick up audio from external mics and to be channeled to the speaker.
- A microphone array is used to pick up audio in the room.
- A collar mic is to be provided for the presenter.
- A Control device with a wireless touch panel can be provided to control the devices in the room with a GUI interface for easy usage of the provided AV system and lighting in the studio room.
- The ceiling microphones are used during VC sessions only. For local speech reinforcement collar mikes and wireless handheld mics will be used

The following activities will be the responsibility and under the scope of work:

- Electrical, Carpentry, Civil and other works required for Audio/Video installation
- Electrical Cables (Power cable, Ethernet cable for Ballast control, etc) required should be provided by Integrator
- Electrical cables for powering devices, lighting controls, screen and lift to relay controller should be laid by Integrator as specified in the AV Drawings.
- Power sockets, power points, extension boards etc., should be provided by Integrator as specified in the AV Drawings.
- It must be noted that Audio-Visual cables should be shielded from high voltage electrical cable runs and other EMI exposure to avoid disturbance and noise.
- Any Civil, Carpentry or Architectural work required for AV installation & fit outs should be done by Integrator(eg: Ceiling Cut out, Table Cut out, Platform for Device placement, Support for Ceiling or Wall Mount Kit, etc.)
- Existing electrical fittings in the proposed site will be cleared by IMSc when the work order is placed.
- Existing A/C duct in the site need to be removed and a provision of windows for A/C flow should be made in co-ordination with IMSc. The scrap materials removed will be property of IMSc and the scraps will be disposed at cost.
- Existing aluminium glass Windows and Doors should be removed by you and the materials removed will be property of IMSc and will be disposed at cost.