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Date 15.03.2013

**Sealed Quotation is invited for the following items (All items together)**

Item Name	Qty	Room	Specifications
Conference System with Chairman Control Unit	1	Senate Room	Control Unit with Recorder Supply, installation and testing of the control unit with built-in MP3 recording, which can control upto 150 devices, digital acoustic feedback suppression, recording buffer, built in monitor loudspeaker, graphical display. With Following additional Features: Mains voltage: 100 - 240 Vac $\pm$ 10%, 50/60 Hz, Current consumption: Max. 0.9 A (100 Vac) - 0.3 A, Power Consumption 60 W, DC supply to contribution units: 24V +/- 1V (current limited), Rated output for all trunks 1.25A, Sample frequency: Recording 32Khz, Sample frequency: Playback 32, 44.1 and 48Khz, Bit rate: Recording 64, 96, 128, 192 , 256 Kbit/sec, MP3-tag Compatible conform ID3V2, Memory card Any SD card up to 2 GB compatible, Monitor loudspeaker, Output level at 0.5 m 72 dB SPL/ 82 dB SPL (nominal/maximum) Chairman Unit Supply, testing, installation of the chairman unit with priority button for chairman microphone, Temporary or permanent muting of delegate microphones, Optional chime tone facility for preceding chairman announcements, Possible-To-Speak functionality/ LED <b>Make: BOSCH CCS-CURD, CCS-CML</b>
Delegate Unit for Conference System	56	Senate Room	Delegate Units Supply, installation, testing of the delegate unit Possible-To-Speak indicator, Built-in volume control for headphones, Microphone with flexible stem and light ring, Two headphone sockets. <b>Make: BOSCH CCS-DL</b>
DLP Projector	1	Senate Room	WXGA (1200x800), 4200 ANSI Lumens, 13000:1 contrast ratio, 1.07 billion colors, Lens: F=2.42-2.98, f=20.7-31.13mm, aspect ratio of native 16:10 with 5 aspect ratio selectable, throw ratio of 1.45-2.24 or 63" at 2 meters, diagonal image size of 47" - 300", zoom ratio of 1.5:1, lamp type: 310W, lamp duration of 2500 hours minimum in normal mode, resolution support of VGA (640x480) to UXGA(1600x1200), vertical scan rate 23~120Hz, Horizontal frequency of 27K~102KHz, computer in (D-sub 15 pin), monitor out, HDMI x 1, composite video x1, S-video in x1, Audio in (Mini jack) x2, Audio-out x1, MIC in x1, 20W speaker x1, LAN RJ45 x1, Type A USB x2, Type mini B USB x1, RS232 (DB-9pin) x1, IR receiver X2 (front and top), HDTV compatible upto 1080p, Video compatibility of PAL, NTSC, SECAM, AC-100 to 240V, 50-60Hz
Large Projector Screen	1	Senate Room	Motorized projector screen with SOMFY France motor, screen size 8'x10' size, White matte finish, <b>Make: Liberty or similar</b>
Amplifier	1	Senate Room	Amplifier Gain 32 dB, Continuous Rated Power (1 kHz, THD 1%) 2 $\Omega$ 650 Watts, Continuous Rated Power (1 kHz, THD 1%) 4 $\Omega$ 450 Watts, Continuous Rated Power (1 kHz, THD 1%) 8 $\Omega$ 270 Watts, Continuous Rated Power (20-20 kHz, THD<0,2%) 4 $\Omega$ 400 Watts, Continuous Rated Power (20-20 kHz, THD<0,2%) 8 $\Omega$ 200 Watts, Cooling Front-to-Rear, 3-stage fans DIM 30 0.05%, Electronics Type Amplifier Frequency Response 10 Hz - 40 kHz $\pm$ 1 dB, Impedance 2/4/8 $\Omega$ , Input Impedance (Balanced) 20 k $\Omega$ , Input Sensitivity +2.2 dBu, Inter modulation Distortion (SMPTE) 0.1%, Maximum Bridged Output 4 $\Omega$ 1300 Watts, Maximum Bridged Output 8 $\Omega$ 900 Watts, Maximum Input Voltage +21 dBu 8.69 Vrms, Network Control (IRIS-Net) No Signal-to-Noise Ratio (A-weighted) 106 dB Slew Rate 25 V/ $\mu$ s Topology, Class-AB Total Harmonic Distortion 0.03 %, Height 2RU 88.1 mm (3.47") Width 483 mm (19.02") Depth 421.5 mm (16.59") Weight Net 12.6 kg (27.78 lbs) <b>Make: EV Q44-PII or Lab Gruppen</b>
Speakers	4	Senate Room	SITC of ultra compact 2-way loudspeaker system for green rooms with dual 4" LF or better with frequency range of 75Hz-20kHz, with a sensitivity of 87dB(1W/1m) or more delivering a max SPL of 110dB or more. The loudspeaker should have a horizontal coverage angle of 95 degree or more and vertical coverage angle of 75 degree or more. It should have a power handling of 400W or more with nominal impedance of 8 ohms. The loudspeaker should have integrated mounting bracket for permanent installation. <b>Make: Electro-Voice (EV), Martin Audio</b>
LED Monitors	28	Senate Room	15.6" LED Monitor, Resolution 1366 x 768, Display Size 16" Inches, Image Contrast Ratio 5000000:1 / 600:1 <b>Make: BenQ</b>

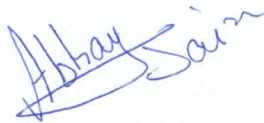
Short throw Projector Screen	1	Senate Room	Motorized projector screen with SOMFY France motor, screen size 8'x 6' size, White matte finish, <b>Make: Liberty or similar</b>
Short throw projector	1	Senate Room	DLP XGA(1024 x 768), 78" XGA picture at 39 inches with a 0.6 ultra short-throw ratio, 13000:1 with 1.07 Billion Colors, ultra-sharp contrast ratio, 3000 ANSI lumen brightness, lamp life of up to 5000 hours or higher, VGA(640 x 480) to UXGA(1600 x 1200), Computer in (D-sub 15pin) x 2 (Share with component video), Monitor out (D-sub 15pin) x 1, HDMI (v1.3) x 1, Composite Video in (RCA) x 1, S-Video in (Mini DIN 4pin) x 1, Audio in (Mini Jack) x 2, Audio L/R in (RCA) x 1, Audio out (Mini Jack) x 1, Speaker 10W x 1, LAN (RJ45) x 1 (LAN Control), USB (Type B) x1 (Download & page up/down), RS232 (DB-9pin) x 1, IR Receiver x2 <b>Make: BenQ MX816ST or similar</b>
Video Control Unit	1	Senate Room	Unit that can control the video for all the 28 LED monitors and projectors
Installation items		Senate Room	1. All cables of the conferencing system should be of BOSCH and all other cables should be of liberty make. 2. Acoustic treatment of the room for echo cancellation should be done using appropriate acoustic fabric 3. Minor civil and electrical work, including cabling should also be included in the price quote.

**Notes:**

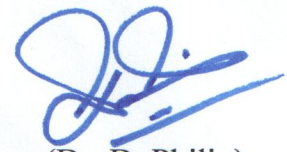
1. All quotation must reach by 25.03.2013, addressed to: **The Dean of Student Affairs, IIT Kanpur, Kanpur 208016, UP**
2. Quotation must be valid till 40 days. Delivery period will be 5 weeks. Extension of delivery period is not allowed.
3. All items should have a minimum warranty of one year. Warranty should be properly mentioned in your quotation.
4. Send technical detail and photograph of the products. The specified product should be quoted.
5. Participating firms should submit proof of documentation on authorized vendor for the product and eligible to provide the warranty. These documents will be cross verified.
6. Any firms with poor track record of installation services and lapses on warranty claims within IIT Kanpur will be rejected out rightly.
7. The entire order should be quoted as one order. The quote should also **involve the installation of the items in New SAC Senate Room to the satisfaction of the user committee.**
8. Installation of the items include:
  - a. Overhead mounting of the projector and motorized projection screens, Cabling and installation of the speakers and amplifiers,
9. Payment term
  - a) For foreign currency through LC.
  - b) For Rupees payment 90%on delivery & 10% after satisfactory using /working



(DOSA, IITK)



(President, Students' Gymkhana)



(Dr. D. Philip)