



Enq. No. NUJS/ Audio & IT/Room no 201,227&328/Quo/13

To,

12/02/ 2013

Sub: Enquiry letter for inviting quotation for Audio visual and IT

Sir,

As per our requirement for Audio visual and IT system in Room no 201,227 &328, you are requested to send sealed quotations for the following item(s) by 20.02.2013 at 16.00 hrs. You are also requested to visit & inspect our university campus for detail measurement & specification for the said job.

SN	Item Description	Unit	Qty	Rate	Amount
MA	Audio (providing, fixing complete including all accessories)				
1	Providing & Fixing in place structured ultrathin gooseneck microphones with 200mm long flexible neck on shock mounted holder with consistent on-axis response, back electret condenser, super-hyper cardioid polar pattern, 200 ohms low impedance balanced, frequency response (-8db) at 75-15000Hz, power level (0db- 1m W/Pascal) at 1,000 Hz: (-44db), Open circuit voltage (at 1,000 Hz): 6.6mV/pascal, Equivalent noise (0db=20 microphones): <28db SPC, SPC (1% reduction, 1,000 Hz): 130db	each	9		

Preferred make: AKG / Beyerdynamic / Sennheiser / Bosch / Siemens / Philips



- 2 Providing & Fixing in place structured ultrathin gooseneck microphones with 300mm long flexible neck on shock mounted holder with consistent on-axis response, back electret condenser, super-hyper cardioid polar pattern, 200 ohms low impedance balanced, frequency response (-8db) at 75-15000Hz, power level (0db- 1m W/Pascal) at 1,000 Hz: (-44db), Open circuit voltage (at 1,000 Hz): 6.6mV/pascal, Equivalent noise (0db=20 microphones): <28db SPC, SPC (1% reduction, 1,000 Hz): 130db each 5

Preferred make: AKG / Beyerdynamic / Sennheiser/ Bosch / Siemens / Philips

- 3a Providing wireless lapel microphones with low output impedance each 4
3b Providing wireless handheld microphones with low output impedance each 10

Preferred make: AKG / Beyerdynamic / Sennheiser / Bosch / Siemens / Philips

Note All microphones to be low output impedance with perfect matching balanced interface with mixer/Video conference equipment & Echo canceller and includes cost of materials and installation as directed with all on/off switches, bases, connectors, wiring, accessories etc. complete including testing and commissioning.

- 4 Providing and installing DSP processor with 12 Mic/Line input & 8 output with frequency response of 0-3db, micro 100-17000Hz, Aux 40-21000 Hz and including controls for inputs, master gain, bass, treble and recording output provisions. each 3

Preferred make: BSS / Biamp

- 5 Providing and fixing 50 watt multichannel amplifier with digital mixer, echo controller and far end feedback reduction including ambient noise cancellation on mic or line input; Mic input adjustable 55dBu to +0 dBu nominal, speaker output 5 W 4 Ohms, input impedance 5kOhms, signal to noise ratio (line level) 0 dB gain>60 dB, Frequency response 20 Hz – 15 KHz, Acoustic Echo Cancellation Span 120 ms or less, Dynamic Range 85 dbi, Convergence rate 40 dB/Sec. each 3

Preferred make: Crown / Biamp

- 6 4" ceiling mounted speakers each 28
Preferred make: Tannoy / JBL / Bosch / Siemens / Philips

Note Items include cost of all accessories, wiring, fittings, fixtures and jacks/connectors etc. complete and including testing and commissioning.

- B Video (providing, fixing complete including all accessories)



- 7 Providing and fixing in place as directed on mounting brackets (ceiling or wall) of appropriate size and length 42" wide format professional full HD LCD display panels with VGA & HDMI output. each 6
- 8 Providing and fixing in place as directed 18" wide format professional full HD LCD display panels with VGA & HDMI output. each 5
- Preferred make: LG/Samsung

Note Items 7 & 8 include cost of all accessories, wiring, fittings, fixtures and jacks/connectors of required length (for both HDMI & VGA), necessary connectivity plates, twisted pair receiver modules, equalizers etc. complete for Video equipment etc. complete and including testing and commissioning.

- 9 VGA automatic switcher with audio each 3
- 10 VGA to HDMI scalar each 3
- 11 6 x 6 HDMI matrix switcher each 1
- 12 HD Wireless Presentation System with Wired LAN Connectivity, HDMI Output each 3
- 13 DVI to Computer graphics converter each 12
- 14 Computer graphics to video scan converter each 3
- 15 HDMI audio de-embedder each 3
- Preferred make: Extron / Kramer; WPS / Wow Vision / Bosch / Siemens / Philips
- 16 Customised floor/furniture/wall/ceiling mounted junction boxes as necessary complete with fixing in place, chase-cutting and making good etc. LS

C Control & IT systems (providing, fixing complete including all accessories)

- 17 Control processor with 7 x RS232, 8 x Relay and 8 x IR ports each 3
- 18 Virtual touch panel control for AV systems each 3
- Preferred make: AMX/Crestron
- 19 Wireless access point each 3
- 20 8 port switch with 4 PoE port and 4 normal port each 3
- Preferred make: Linksys/Netgear

D Cabling (providing, fixing complete including all accessories)

- 21 22U AV Rack each 3
- Preferred make: Valrack or equivalent
- 22 Rack mount kit each 3



23	3' molded HDMI cable	each	14
24	6' molded HDMI cable	each	5
25	35' molded HDMI cable	each	3
26	50' molded HDMI cable	each	1
27	75' molded HDMI cable	each	2
28	3' molded HDMI to DVI cable	each	11
29	6' molded HDMI to DVI cable	each	3
30	6' molded VGA cable with audio	each	5
31	VGA Cable	m	360
32	Speaker Cable	m	240
33	Mic Cable	m	380
	Preferred make: Extron / Kramer / Bosch / Siemens		
34	Control / Signal cable	m	400
	Preferred make: Belden/equipment manufacturer specs	LS	
35	All necessary AV connectors for complete system	LS	
E	Testing Commissioning & Programming		
36	Testing Commissioning & Programming of all systems, equipments, connections, cabling etc.	LS	
F	Projection Equipment (providing, fixing complete including all accessories)		
37	Providing & fixing in position 100"HD diagonal optical FIXED projection screen	each	2
	Preferred make: Draper/DNP		
38	Providing & fixing in position 4000 ANSI lumens Full HD projector including ceiling mounting kit etc.	each	2
	Preferred make: Panasonic/Philips / 3M / Casio		
39	Twisted pair multiformat input plate with VGA and HDMI port	each	3
40	Multiformat input switcher cum scalar cum controller	each	2
41	HDMI Twisted pair receiver module	each	2
	Preferred make: Extron / Kramer		

Amuktopey



G Video Conferencing system (providing, fixing complete including all accessories)			
42	HD wall mounted video camera including wall mount Preferred make: Sony / Vaddio	each	1
43	IP Streaming device with SD resolution Preferred make: Extron / Wowvision	each	1
45	1 x 2 VGA distribution amplifier	each	1
46	1 x 2 HDMI distribution amplifier	each	1
47	Annotator graphic processor with DVI-D output Preferred make: Extron / Kramer	each	2
48	720P HD video conferencing unit including ceiling mount	each	1
49	30 meter extended VC camera cable Preferred make: Cisco / Polycom	each	1
50	Look at me button	each	2
			TOTAL

TOTAL in Words

Please Note: - Sealed quotation will be received upto 16:00 hrs 20/02/2013 at Room No 001 of the Administrative Building & opened on 20/02/2013 at 17:00 hrs.

Terms & Conditions:

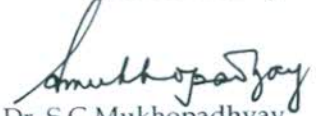
1. The rate should be quoted inclusive of all taxes & charges.
2. Rate should be quoted with **model no.** in each & every case.
3. You are requested to submit **catalogue** of the items for better understanding along with your offer.
4. EMD: Rs.1,00,000.00 is to be submitted along with your offer.
5. List of clients is to be submitted along with your offer.
6. Warranty terms should be mentioned clearly.



7. Work schedule to be strictly adhered to and as provided by the University Authorities.
8. Payment terms: two R\A bills will be entertained and the final payment will be made after satisfactory completion of work.
9. Security Deposit: 10% of the Bill value will be kept for one year defect liability period. Security Deposit will be released after satisfactory completion of defect liability period.
10. An agreement to mutual satisfaction is to be executed for the stated work after the order is issued.

Thanking you,

Yours sincerely


Dr. S.C. Mukhopadhyay
Registrar