



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

To,

04.04.2013

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 16.04.2013 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	Quantity	Rate	Amount
A	<b>Audio (providing, fixing complete including all accessories)</b>				



- 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
  
- 1a UHF band each 5
- 1b VHF band each 4

Preferred make: AKG / Beyerdynamic / Sennheiser

- 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 (UHF band) each 5

Preferred make: AKG / Beyerdynamic / Sennheiser

- 3a Providing wireless lapel microphones with low output impedance (UHF band) each 4
- 3b Providing wireless handheld microphones with low output impedance (VHF band) each 10

Preferred make: AKG / Beyerdynamic / Sennheiser

Note All microphones to be low output impedance with perfect matching balanced interdface 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 20-20000Hz and including controls for inputs via LAN or RS 232, recording output provisions; features to include: AEC on all inputs, feedback reduction, noise cancellation, master gain, bass, treble controls. Graphic equalization, parametric equalization, Gating, compressor, limiter, Auto mixing, Delay, etc. each 3

Preferred make: BSS / Biamp

- 5a Providing and fixing 75 watt 4 channel amplifier with 4ohms/8ohms & 70 volt output capable; each channel with LED signal presence indicators, output clipping, over-temperature condition; frequency response 20-20000 Hz, input impedance: balanced 20k ohms, unbalanced 10k ohms, signal to noise ratio . 85 dB. each 1

- 5b Providing and fixing 150 watt 2 channel amplifier with 4ohms/8ohms & 70 volt output capable; each channel with LED signal presence indicators, output clipping, over-temperature condition; frequency response 20-20000 Hz, input impedance: balanced 20k ohms, unbalanced 10k ohms, signal to noise ratio . 85 dB each 2

Preferred make: Crown / Biamp

- 6 4" ceiling mounted speakers; 30 watt rms (continuous power handling) each each 28  
Preferred make: Tannoy / JBL

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 connections. each 6

- 8 Providing and fixing in place as directed 18" wide format professional HD ready LCD display panels with VGA & HDMI connections. each 5

Preferred make: LG/Samsung



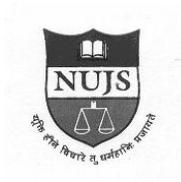
Note Items 7 & 8 include cost of all accessories, wiring, fittings, fixtures and jacks/connectors of required length (for both HDMI & VGA), necessary connectivity plates, twisted pair receiver modules, equalizers etc. complete for Video equipment etc. complete and including testing and commissioning.

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|----|---|------|----|
| 9  | 2 input & 1 out VGA with audio automatic switcher   | each | 3  |
| 10 | VGA to HDMI scalar  | each | 3  |
| 11 | 6 x 6 HDMI matrix switcher  | each | 1  |
| 12 | HD Wireless presentation system allows upto 8 laptops/desktops to be connected simultaneously on to a projection device with ability to show 4 laptops simultaneously on the screen at one time in 4 PIP windows with HDMI, VGA & audio output. Capable of connecting to wired LAN as well. | each | 3  |
| 13 | DVI to Computer graphics converter (active device)  | each | 12 |
| 14 | Computer graphics to video scan converter (active device)   | each | 3  |
| 15 | HDMI audio de-embedder<br>Preferred make: Extron / Kramer; WPS / Wow Vision   | each | 3  |
| 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<br>Note: Please consider number of control port required and quote accordingly. | each | 3 |
| 18 | Virtual touch panel control for AV systems (iPAD based)<br>Preferred make: AMX/Crestron  | each | 3 |
| 19 | Wireless access point  | each | 0 |
| 20 | 8 port switch with 4 PoE port and 4 normal port<br>Preferred make: Linksys/Netgear   | each | 3 |

**D Cabling (providing, fixing complete including all accessories)**



21	22U AV Rack (lockable) Preferred make: Valrack or equivalent	each	3
22	Rack mount kit	each	0
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 Preferred make: Extron / Kramer	m	380
34	Control / Signal cable Preferred make: Belden/equipment manufacturer specs	m	400
35	All necessary AV connectors for complete system	LS	
<b>E</b>	<b>Testing Commissioning &amp; Programming</b>		
36	Testing Commissioning & Programming of all systems, equipments, connections, cabling etc.	LS	
<b>F</b>	<b>Projection Equipment (providing, fixing complete including all accessories)</b>		
37	Providing & fixing in position 100"HD diagonal optical FIXED projection screen Preferred make: Draper/DNP	each	2
38	Providing & fixing in position 4000 ANSI lumens Full HD projector including ceiling mounting kit etc. Preferred make: Panasonic/Philips	each	2



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	3
	Preferred make: Extron / Kramer		

**G Video Conferencing system (providing, fixing complete including all accessories)**

42	HD wall mounted video camera including wall mount	each	1
	Preferred make: Sony / Vaddio		
43	IP Streaming device with SD resolution	each	1
44	Preferred make: Extron / Wowvision		
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	each	1
	Preferred make: Extron / Kramer		
48	720P HD video conferencing unit including ceiling mount	each	1
	Note: VC should be with 720p resolution complete with HD camera, 4 MBps Ip connectivity facility, HD voice quality, 1+3 Multipoint Facility, Dual Monitor output, upgradable to ISDN PRI connectivity at later stages. VC should be with AV record output. Should have Av connectivity port supporting Analog and digital inputs and outputs.		
49	30 meter extended VC camera cable	each	1
	Preferred make: Cisco / Polycom		
50	Look at me button	each	2
51	iPAD 2, Wi-Fim Dual Core A5,	each	4

TOTAL

TOTAL in Words



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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 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

Sd /-

Dr. S.C.Mukhopadhyay  
Registrar