



INDIAN INSTITUTE OF TECHNOLOGY KANPUR
CENTRAL STORES & PURCHASE SECTION
IIT Post Office Kanpur - 208 016
Under certificate of posting

Phone : 91-512-2597214, 7384
Fax : +91-512-2597659

Email : purchase@iitk.ac.in.

Enquiry No : E/2018-2019/3
Enquiry Date : 10/05/2018
Closing Date : ~~14/06/2018~~ 29/06/18 03:00 P.M. (Extended date)
Delivery Date: 30 Days

Dear Sir ,

Sealed Quotations so as to reach latest by 3:00 PM on dated ~~14/06/2018~~ 29/6/18 (Extended date) are invited for the supply of following items :

| SI No. | Description | Quantity | Unit |
|--------|--|----------|------|
| 1 | AUDIO AND VIDEO INTEGRATED SYSTEM SPECIFICATIONS AND COMPLETE DETAILS AS PER ANNEXURE-A | 1 | SET |

1. Vendor has to submit EMD of Rs. 1.3 Lac in favour of Registrar, IIT Kanpur.

Sd/-

Joint Registrar (S&P)
Central Store & Purchase Section



**INDIAN INSTITUTE OF TECHNOLOGY KANPUR
STORES & PURCHASE SECTION
IIT POST OFFICE KANPUR 20801**

Phone : 91-512-2597214, 7384
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Terms & conditions for supply of above mentioned articles

1. Enquiry will be sent by courier / registered post / speed post and IIT Kanpur will not be liable for any kind of irregularity/delay.
2. The quotation should be enclosed in a properly sealed envelope addressed to the Jt. Registrar(S&P) invariably giving on the envelope reference of enquiry and due date of opening.
3. The quantity mentioned in enquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute.
4. Firms will quote separately for each article.
5. The Rate offered should be free delivery to IIT Kanpur or Ex-go down in case of firms situated outside Kanpur. If items is imported then the firms should quote the price on F.O.B. basis.
6. In case of Ex-go down terms the amount of packaging, forwarding freight etc. should clearly be mentioned by percentage or lump sum amount. Current rate of tax as and other statutory levies must be mentioned.
7. The rates offered should be exclusive or inclusive taxes. The rates applicable should clearly be specified .
8. The delivery period should be specifically stated. Ex-stock and earlier delivery may be preferred.
9. The firms are requested to give detailed description and specification together with detailed drawings and printed leaflets and literature of the articles quoted. The name of manufacturers and country of manufacture should also be invariably be stated. In the absence of these particulars the quotation is liable for rejection.
10. Samples wherever asked for will not be paid for. These should be delivered in the office of the undersigned securely labelled and packed. In case of firms who submit the sample through railway and road transport the freight should be prepaid and R/R should be in favour of the Jt. Registrar, Stores and Purchase Section. Indian Institute of Technology, Kanpur-208016.
11. Quotation should have validity of at least 90 days from the date of opening.
12. The rates quoted should be in metric units, otherwise your quotation is liable to be ignored.
13. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
14. All the consignments must be securely packed and booked duly insured addressed to the Jt. Registrar (S&P) IIT Kanpur - 208016
15. Institute is partially exempted for payment of Custom Duty @ 5.15% under notification 51/96 and road permit will be provided if applicable.
16. The Penalty @ 1% per week or part thereof subject to a maximum of 10% of the delivery price will be deducted from the balance payment if supply is not completed within stipulated period.
17. The Concessional Form 'C/D' have been abolished w.e.f. 01.04.2007.
18. Our standard payment terms & condition is 90% against delivery and 10% after inspection and approval.
19. Institute is partially exempted for payment of GST under notification 45/2017.

Jt. Registrar (S & P)

Annexure-A

Specification For Audio and Video Integrated System.

| S No | Description | Qty |
|----------------------------------|---|-----|
| 1. FRONT OF HOUSE SPEAKER | | |
| 1.1 | Supply, Installation and Commissioning of FOH Speakers with 300W@8 ohm rating, Frequency Range (-10 dB)1 : 50 Hz - 20 kHz, Power Rating2 : 300 W/ 600 W/ 1200 W, 2 hrs (Continuous/Program/Peak), System Sensitivity (1w @ 1m): 95 dB SPL, Suspension / Mounting: Dual angle, 0° or -10° 35 mm pole socket Twelve M10 Suspension Points, Input Connectors: Parallel Neutrik® Speakon® NL-2 / ¼" phone combo jacks, Maximum SPL3 : 120 dB SPL continuous (126 dB SPL peak) | 4 |
| 1.2 | Supply, Installation and Commissioning of Amplifier with 375W/channel @ 8 ohms, Sensitivity .775Vrms or 1.4Vrms, Frequency Response (at 1W, 20Hz to 20kHz) -1dB +0dB, Signal to Noise Ratio (rated as dBr to full rated 8Ω power output; A-Weighted >103dB*, Peakx™ Limiters provide maximum output while protecting your speakers, Higher DSP capabilities: More control; has band pass filter per channel | 2 |
| 2. STAGE MONITORS | | |
| 2.1 | Supply, Installation and Commissioning of Stage Monitor Speakers with 300W@8 ohm rating, Frequency Range (-10 dB)1 : 50 Hz - 20 kHz, Power Rating2 : 300 W/ 600 W/ 1200 W, 2 hrs (Continuous/Program/Peak), System Sensitivity (1w @ 1m): 95 dB SPL, Suspension / Mounting: Dual angle, 0° or -10° 35 mm pole socket Twelve M10 Suspension Points, Input Connectors: Parallel Neutrik® Speakon® NL-2 / ¼" phone combo jacks, Maximum SPL3 : 120 dB SPL continuous (126 dB SPL peak) | 2 |
| 2.2 | Supply, Installation and Commissioning of Amplifier with 375W/channel @ 8 ohms, Sensitivity .775Vrms or 1.4Vrms, Frequency Response (at 1W, 20Hz to 20kHz) -1dB +0dB, Signal to Noise Ratio (rated as dBr to full rated 8Ω power output; A-Weighted >103dB*, Peakx™ Limiters provide maximum output while protecting your speakers, Higher DSP capabilities: More control; has band pass filter per channel | 1 |
| 3. Sub Woofer | | |
| 3.1 | Supply, Installation and Commissioning of 800 Watt Sub Woofer, Frequency Range (-10 dB): 35 Hz – 250 Hz, Frequency Response (±3 dB): 52 Hz – 120 Hz, Input Connection Modes: +1/-1, Recommended Crossover: 80 Hz, 24 - 48 dB/octave, Recommended Filter: 35 Hz, 24 dB/octave subsonic high-pass, Power Rating1 : 800 W/ 1600 W/ 3200 W, 2 hrs (Continuous / Program / Peak), System Sensitivity (1w @ 1m)2 : 95 dB SPL; 100 dB SPL, Input Connectors: Two Neutrik® Speakon® NL-2 / ¼" TS phone combo jacks, Nominal Impedance: 8 ohms, LF Driver: 1 x JBL Selenium SWS1000W 457 mm (18 in) woofer | 2 |
| 3.2 | Supply, Installation and Commissioning of Amplifier with 375W/channel @ 8 | 1 |

| | | |
|--|---|---|
| | ohms, Sensitivity .775Vrms or 1.4Vrms, Frequency Response (at 1W, 20Hz to 20kHz) -1dB +0dB, Signal to Noise Ratio (rated as dBr to full rated 8Ω power output; A-Weighted >103dB*, Peakx™ Limiters provide maximum output while protecting your speakers, Higher DSP capabilities: More control; has band pass filter per channel | |
| 4. PROCESSORS & ELECTRONICS | | |
| 4.1 | Supply, Installation and Commissioning of 22 channel mic mixer with inbuilt effects processor, dbx® Limiters on inputs -8, Lexicon® Effects- Dual Engine, USB Interface- 2-in/2-out (24-in/22-out on 22 MTK), Auxes-5, Subgroups- 4 mono/2 stereo, Faders-100mm, | 1 |
| 4.2 | Supply, Installation and Commissioning of Digital signal processor(@8Ohms: Feedback Exterminator, Graphic Equalizer 1/3, Limiter Minimum), | 1 |
| 4.3 | Supply, Installation and Commissioning of 1:5 distribution VGA + audio Distribution amplifier, Input- 1 balanced stereo audio, +4dBu/50kΩ on a detachable terminal block connector 1 unbalanced stereo audio, 1Vpp/50kΩ on a 3.5mm mini jack, Output- 5 balanced stereo audio, +4dBu/50Ω on detachable terminal block connectors 5 unbalanced stereo audio, 1Vpp/470Ω on 3.5mm mini jacks, Bandwidth(-3DB)-40kHz (Fully Loaded), | 1 |
| 4.4 | Supply, Installation and Commissioning of Head Phone, Ultra-wide frequency response, High-definition bass and super-transparent highs, Ultra-wide dynamic range, High-efficiency cobalt capsule, 1/8-inch connector plus 1/4-inch adapter included | 1 |
| 5. MICROPHONES | | |
| 5.1 | Supply, Installation and Commissioning of PODIUM 12" gooseneck microphones, Audio frequency bandwidth- 70 - 18000 Hz, Equivalent noise level 21 dB-A, Signal to Noise 73 dB-A, Bass cut filter 250 Hz, Electrical impedance 600 Ohms, Recommended load impedance-2000 Ohms Polar Pattern Cardioid | 2 |
| 5.2 | Supply, Installation and Commissioning of Handheld Vocal corded microphones, Frequency response (Microphone) 55 - 16,000 Hz, | 4 |
| 5.3 | Supply, Installation and Commissioning of Wireless lapel microphone, AF frequency response-50 to 16,000 Hz (-3 dB) THD, total harmonic distortion ≤ 0.9% , Pick-up pattern omni-directional | 2 |
| 5.4 | Supply, Installation and Commissioning of Handheld wireless microphones, THD, total harmonic distortion ≤ 0.9% , Pick-up pattern-cardioid, Signal-to-noise ratio : ≥ 103 dBA , Switching bandwidth : up to 24 MHz , Output voltage: 1/4" (6.3 mm) jack socket (unbalanced): +6 dBu, XLR socket (balanced): +12 dBu | 4 |
| 6. OTHER SOURCES | | |
| 6.1 | Supply, Installation and Commissioning of Digital Podium, Material All ABS Plastic, 22" LCD Tablet Monitor: 1920 x 1080 (FULL HD) Contrast Ratio: 1000:1, Viewing Angle- 160° (H/V), Sub-monitor:- Non Tablet / 22inch wide, Body Soft wheel Moving podium with convenience, Multimedia Controller: 2 X VGA Input & Output, 2 X Composite Input and 2 X 1 Composite Output, Control Switch Control Ports X 2, Screen Relay Controls X 2, RFID Control X 1, Serial RS-232 Ports X 4, RMS Control Module X1, Digital Amplifier: Output Power (Max) 280W 4Ω (140W + 140W) Stereo, 280W 4Ω (140W + 140W) Stereo 8~20mV (3 Input), PC/Laptop Inputs 70mV (2 Input), Audio Input 70mV (2 Input), Audio Output : 250mV (3 Output), and also included Wireless Microphone, Gooseneck Microphone, 7" LCD Controller, Laptop Interface Modules, Power distributor, RFID Module, RMS Module, | 1 |
| 6.2 | Supply, Installation and Commissioning of High Performance 4x1 HDMI Switcher , Bandwidth: Supports up to 2.25Gbps bandwidth per graphic channel, Resolution : Up to UXGA 1080p, deep color | 1 |
| 6.3 | Supply, Installation and Commissioning of 27 U Equipment rack to place AV equipment (air cooled) | 1 |
| 7. BASIC VIDEO REINFORCEMENT | | |
| 7.1 | Supply, Installation and Commissioning of 9000 ANSI Lumens DLP Laser Phosphor Multimedia Projector, Lamp Life 40000 Hr, Resolution 2,560 x 1,600 (WQXGA) native, Contrast ratio 1,200:1 sequential, 10,000:1 | 1 |

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|-------------------------|---|---|
| | dynamic * , Lens type GLD / FLD+ (lens adapter needed), Optical lens shift Up to 140% shift, depending on lens. Motorized zoom, focus, vertical and horizontal shift, 3D Active stereoscopic 3D * / Passive stereo compatible, Inputs HDSDI, 2x DP 1.2, 2x dual link DVI-D, HDBaseT, HDMI 2.0*, RJ 45 Ethernet, DMX in/out*, RS232 in, 2x USB, 12V out, Input resolutions Up to 4K UHD @ 60Hz / Up to 2,560 x 1,600 @ 120Hz, Control IR, RS232, RJ45, XLR wired, Network connection 10/100 Ethernet, RJ45, Throw Ratio 0.85 -1.06 ; 1.06 -1.43 ; 1.43 -2.12 ; 2.12 -3.18 and compatible with FLD/FLD+ series (with adapter) , | |
| 7.2 | Supply, Installation and Commissioning of Ultra Short Throw Lens | 1 |
| 7.3 | Supply, Installation and Commissioning of Ceiling Mounting Projector Customized Kit | 1 |
| 8. IMAGE DISPLAY | | |
| 8.1 | Supply, Installation and Commissioning of Cosmopoliton electrol 220" Cosmopolitan Electrol Motorized Projection Screen (108 x 192") | 1 |
| 8.2 | Supply, Installation and Commissioning of 1: 4 4K Uhd HDMI Distribution Amplifier , 1:4 distribution amplifier for 4K@60Hz (4:2:0) HDMI 2.0 signals complying with the HDCP 1.4 content protection standard. The unit takes one HDMI input, equalizes and reclocks the signal and distributes it to four identical outputs. | 1 |
| 8.3 | Supply, Installation and Commissioning of HDMI Transmitter and Receiver, Up to 70m (230ft) at 1080p | 2 |