



INDIAN INSTITUTE OF TECHNOLOGY KANPUR

CENTRAL STORES & PURCHASE SECTION

IIT Post Office Kanpur - 208 016

Under certificate of posting

Phone : 91-512-2597384

Fax : +91-512-2597659

Email : sharif@iitk.ac.in.

Enquiry No : E/2013-2014/34

Enquiry Date : 20/08/2013

Closing Date : 29/08/2013

Delivery Date: 15 Days

Dear Sir ,

Sealed Quotations so as to reach latest by 3:00 PM on dated 29/08/2013 are invited for the supply of following items :

SI No.	Description	Quantity	Unit
1	POLYSOMNOGRAPHY EQUIPMENT (SPECIFICATION AS PER ATTACHED SHEET)	1	NO

Sd/-

Dy. Registrar (S&P)
Central Store & Purchase Section



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Terms & conditions for supply of above mentioned articles

1. Enquiry will be sent by UCP and IIT Kanpur will not be liable for any kind of postal irregularity/delay.
2. The quotation in duplicate should be enclosed in a properly sealed envelop addressed to the Asst. Registrar Store and purchase section. I. I.T., IIT Post office, Kanpur-208016. invariably giving on the envelop reference of enquiry and due date of opening.
3. The quantity mentioned in this 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 of IIT Kanpur or ex-godown in case of firms situated outside Kanpur. If items are imported then the firms should quote the price on F.D.B basis.
6. In case of Ex-godown terms the amount of packaging, forwarding freight etc. should clearly be mentioned by percentage or lump sum amount. Current rate of sales tax must be mentioned.
7. The rates offered should be exclusive or inclusive sales tax. 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 Asst. Registrar, Store and Purchase Section. Indian Institute of Technology, Kanpur-208016.
11. Quotation should have validity of 60 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. Institute is exempted for payment of E.Duty under notification No. 10/97.

Sd/-

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Specification for Polysomnography

1. 57 Channel Digital PSG record and review system.
2. AC Input Signal Range
 - A. *Referential and Bipolar AC channels*: 4 mV peak to peak full-scale
 - B. *Differential DC voltage tolerance*: 500 mV max
3. DC Input Signal Range: ± 2.5 volts
4. Input Characteristics: ≥ 20 Megohm impedance, all inputs including reference. All referential and bipolar AC inputs electrically isolated from earth ground
5. Frequency Response
 - a. *Standard Bandwidth*: 0.5 Hz to 100 Hz, -3 dB, 0.1 to 100 Hz recoverable with Twin
 - b. *Respiratory Bandwidth*: 0.015 Hz to 100 Hz, -3 dB
6. Amplification: *AC channels*: 1200 $\pm 2\%$
7. Vertical Resolution: 16 bits (0.06 $\mu\text{V/bit}$)
8. Sampling Rate: 800 samples/second/channel
9. Storage Rate: Definable
10. CMR: >80 dB, all AC channels, at 50/60 Hz
11. CMRR >80 dB (signal ref), >100 dB (earth ref)
12. Noise <2 μV peak to peak referred to input.
13. Impedance Test Mode: *Referential inputs only*: range, 1 kohm to 100 kohms, 10%
14. Calibration Signal: *Referential inputs only*: 500 μV peak to peak (5 Hz) and ± 50 μV peak to peak (0.1 Hz) $\pm 2\%$
15. Patient Bias Current: *Maximum*: <4 nA , *Typically*: 300 pA
16. Event Input: 1 pushbutton patient signaling input
17. Photic: 1 photic (flash unit) control line
18. Connectivity to Host PC: Standard Ethernet, TCP/IP protocol
19. On-board analog to digital conversion for interference-free recordings
20. Compact design that is rugged, lightweight, and easy to use
21. Should have Study Database.
22. Data should be exported in EDF and TXT format.
23. Report Generation should be available.
24. Quick Connect box for ease of going to wash room during night.
25. Fully Automated Sleep Staging and Analysis software, Automatic Arousal correlations and EKG, body position, EtCO₂, TCO₂, and DC channel trending should be available.
26. Integrated pulse-oximeter connection providing SpO₂, Rate, PPG, and Plethsmograph
27. Onboard impedance checking and calibrations at the amplifier system
28. Branded Video Camera for recording video with below specs.
 - a. 1/4 Type 380K Pixel Exview HAD CCD
 - b. Wide Range Pan/Tilt: 340 Degrees PAN /120 Degrees Tilt
 - c. High Zoom Ratio AF Lens: 18X Optical + 12 X Digital
 - d. Excellent Low light Sensitivity: Illumination less than 1 Lux.
 - e. E Flip Function
 - f. Fully Remote Controllable
 - g. Auto ICR Function
 - h. Auto Focus
 - i. Alarm Function
29. PC with latest specs: Core i5 Processor, 4 GB RAM, 1 TB Hard disk, 21" TFT, Windows 7
30. Medical Graded Isolation Power Supply should be provided.
31. Laser Printer, Trolley

Behave

32. Supplier should have atleast 10 working installation site.
33. Proper onsite Training to staff to be provided on supplier cost.

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