Department of Computer Science and Engineering
Indian Institute of Technology Delhi

Notice Inviting Quotations
Subject: Purchase of a Force Feedback Device

Tender Date: 20th March, 2013

NIQ NO. IITD/BCSE/IRD/PK/10 Due Date 04th April 2013

Interested parties are requested to submit separate technical and commercial quotation for the following item in a sealed envelope to the undersigned in Computer Science and Engineering office latest by 5 p.m. on 04th April 2013.

Force feedback device (Quantity one) with the following technical specifications

1. Force feedback workspace > 160 W x 120 H x 120 D mm
2. Nominal position resolution > 1100 dpi
   ~ 0.023 mm
3. Backdrive friction < 0.06 N
4. Maximum exertable force at nominal (orthogonal arms) position
   >= 7.9 N
5. Continuous exertable force (24 hrs) >= 1.75 N
6. Stiffness
   X axis > 1.86 N / mm
   Y axis > 2.35 N / mm
   Z axis > 1.48 N / mm
7. Inertia (apparent mass at tip) ~ 45-50 g
8. Force feedback x, y, z
9. Position sensing x, y, z (digital encoders)
   [Pitch, roll, yaw (± 3% linearity potentiometers)
10. Interface Parallel port and Firewire
11. OpenHaptics®SDK compatibility Yes

Accessories

- All required accessories such as cables, etc. should be included.
Terms and Conditions:

- For imported items, quotation in foreign currency may also be provided
- The sealed cover should contain separate quotations for ‘technical bid’ and ‘commercial bid’ in two separate envelopes appropriately labeled.
- The institute reserves the right to purchase both/either/none of the options.
- Payment will be made on installation and verification.
- Institute reserves the right to accept or reject any quotation without assigning any reason.
- The validity of the quotation should be at least six months.
- The prices should be quoted FOB.
- Delivery schedule should be mentioned.
- Any other terms must be clearly mentioned.

Prof. Prem Kumar Kalra