Tender No:

Subject: **Purchase of Servomotors, Drives, Controller**

**Invitation for Tender Offers**

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply, installation & integration of Purchase of Servomotors, Drives, Controller** with One year on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document.

The quotation should reach to **Dr. Sunil Jha, Room 156 Block III Dept. Of Mechanical Engineering IIT Delhi, HauzKhas, New Delhi – 110016** latest by 5:00 P.M. on 21st July 2014.

**TECHNICAL SPECIFICATION:**

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<td>1.</td>
<td><strong>Programmable Automation Controller with 5 axis and Ethernet powerlink.</strong>&lt;br&gt;Axes/controller – 5 EPL Axes (min)&lt;br&gt;Processor – 32-bit floating-point DSP @ 150 MFLOPS/ 75 MHz&lt;br&gt;Flash - based Firmware.&lt;br&gt;Multi-tasking RTOS.&lt;br&gt;8 coordinated systems/16 text programs/8 ladder programs.&lt;br&gt;Interpolation - Linear, circular, sinusoidal, helical, elliptical, spline, 3D arcs.&lt;br&gt;Ethernet Powerlink: Ethernet powerlink V2. Integrated 2-port Hub, RJ-45 connectors Supports EPL DS402 Drives on Interpolated position Mode.&lt;br&gt;Serial Communication: 1 serial port (RS232 and/or RS422).&lt;br&gt;Ethernet: 10/100 Base-T, RJ-45 connector .supports IP Protocols TCP/UDP, Ethernet/IP.&lt;br&gt;USB: USB 2.0, Type B connection.&lt;br&gt;CAN Open: Standard 9-pin D- Sub connector, Supports DS401 protocol for I/O devices.&lt;br&gt;Languages Supported: Libraries for C++, VB6, C#, VB.NET, LabVIEW.&lt;br&gt;Segmented Electronic camming.&lt;br&gt;Electronic gearing with realtime phase advance.</td>
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| 1. | Backlash and ballscrew compensation.  
CE (EMC & LVD), UL and cUL Recognized.  
Multitasking of up to 24 simultaneous programs.  
Time-based moves.  
Hardware & capture registers.  
With all necessary accessories (Cables and Connectors) |   |   |
| 2. | **Servo motor**  
Stall Torque 12.8 lb-in, (1.43 Nm)  
Peak Torque 4.38 lb-in, (0.49 Nm)  
Rated Torque 11.8 lb-in, (1.32 Nm)  
Frame magnet length – 233.  
Feedback – 2000 line encoder (8000 ppr post-quadrature)  
Rated Speed - 3500 rpm  
With all necessary accessories (Cables: Feedback & Power, Connectors) | 3 nos. |   |
| 3. | **Ethernet powerlink Digital Servo amplifier with dual encoder** to drive servo motors (item 2) and compatible with Programmable Automation Controller (item 1)  
With all necessary accessories (Cables and Connectors) | 3 nos. |   |

**Terms & Conditions**

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary “Custom Duty Exemption Certificate” can be issued after providing following information.  
a. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)  
b. Forwarder details i.e. Name, Contact No., etc.  

Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.

2. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

3. If the bidder is an authorized dealer of any manufacturer, the authorized Indian dealership certificate from the principles should be enclosed. Similarly, proprietary certificate for proprietary items should be provided.

4. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information is required-  
a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.

5. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.
6. In case IIT Delhi is imposed with demurrage charge due to import on CIF, the entire demurrage charge has to be borne by the Indian Agent of foreign supplier.

7. One year comprehensive warranty be provided and AMC price beyond 3 years should be mentioned separately.

8. Payment Options (any one to be chosen by the Department/ center)

   Letter of Credit: 90% payment against shipping documents & balance 10% after satisfactory installation. For large purchase i.e. costing over Rs. 1 crore, 100% payment be made through LC.
   Sight Draft: Payment against documents through bank.
   Against Delivery: Payment by wire transfer after receipt of material.
   Advance payment: pre-payment by wire transfer (for orders less than Rs. 5 lakh)

9. Delivery period: within 1 month from the issue of supply order.

10. The quotations must have validity of at least three months.

11. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.

12. In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

13. If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.

14. Compliancy certificate must be provided indicating conformity to the technical specifications.

15. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any reasons.

Dr. Sunil Jha
Associate Professor
Room No 156, Block III
Dept of Mechanical Engineering
IIT Delhi, HauzKhas,
New Delhi – 110016