

**Dept. of Mechanical Engineering  
Indian Institute of Technology  
Hauz Khas, New Delhi-110 016**

**NOTICE INVITING QUOTATIONS**

Dated: 3 December 2013

Tender No:

Subject: **Purchase of CNC Machine Structure with 3 Linear and 2 Rotary Slides**

**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 CNC Machine Structure with 3 Linear and 2 Rotary Slides** with One years 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, Hauz Khas, New Delhi – 110016 latest by 5:00 P.M. on 19 Dec 2013.**

S.No.	Items	Quantity
1.	<b>CNC Machine Structure assembled with item 2-4 Specifications:</b> Refer to the attached Drawing.	1 no.
2.	<b>Precision Linear Positioners:</b> Complete Linear screw Positioner with extruded aluminum housing, square rail Bearings, Precision ground Ball screw, travel stops & homing sensor. Motor mounting configurations (in-line, parallel). Duty cycle: 100%. IP30 Protection level with stainless strip seal. Acceleration 20 m/sec <sup>2</sup> . Ball screw efficiency 90%. Load carrying capacity - 150 kgs min. Peak torque – 4.00 to 4.50 Nm Screw Rotation Speed – 0 to 3500 rpm Table travel: 150 mm. Bidirectional Repeatability < 1.5 µm Positional Accuracy: 10 µm (max) Home Sensor (1 No.), Travel limit Sensor (2 Nos) Motor Coupling: 0.375” Bellows. Motor Mount: BE 23-In-line-mounting. Linear Encoder: 0.5 micron.	2 nos.
3.	<b>Precision Linear Positioner:</b> Complete Linear screw Positioner with extruded	1 no.

	aluminum housing, square rail Bearings, Precision ground Ball screw, travel stops & homing sensor. Motor mounting configurations (in-line, parallel). Duty cycle: 100%. IP30 Protection level with stainless strip seal. Acceleration 20 m/sec <sup>2</sup> . Ball screw efficiency 90%. Load carrying capacity - 150 kgs min. Peak torque – 4.00 to 4.50 Nm Screw Rotation Speed – 0 to 3500 rpm Table travel: 300 mm. Precision Grade: Repeatability < 1.5 µm Home Sensor (1 No.), Travel limit Sensor (2 Nos) Motor Coupling: 0.375” Bellows. Motor Mount: BE 23-In-line-mounting. Linear Encoder: 0.5 micron.	
<b>4.</b>	<b>Rotary positioning and indexing table.</b> Table diameter – 6 in, 150 mm. Gear Ratio – 180:1. Magnetic home switches. Motor coupling – 0.375 in bore, bellows (required for precision grade). Standard table top. Repeatable indexing (12 arc-sec) Load capacity 200 lbs, (60Kgf) 360 degrees continuous travel. Worm gear drive. Dual race angular contact support bearing. Input Velocity (Max.) 15 revs./sec. Positional repeatability (unidirectional) 0.2 arc-min.	2 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 years comprehensive warranty be provided and AMC price beyond 1 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.

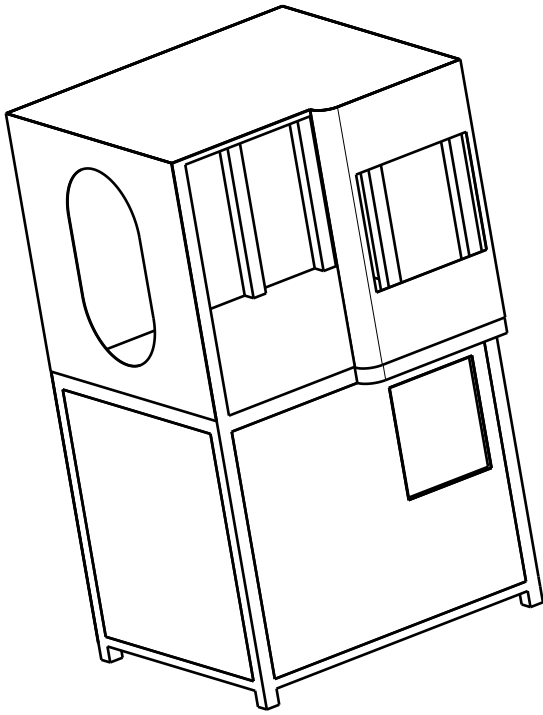
12. In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

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.

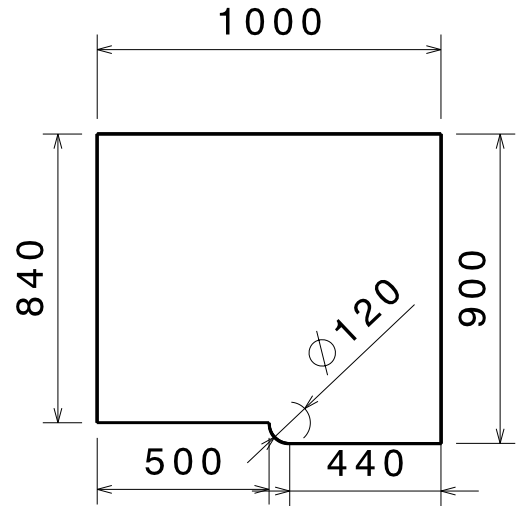
14. Compliancy certificate must be provided indicating conformity to the technical specifications.

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

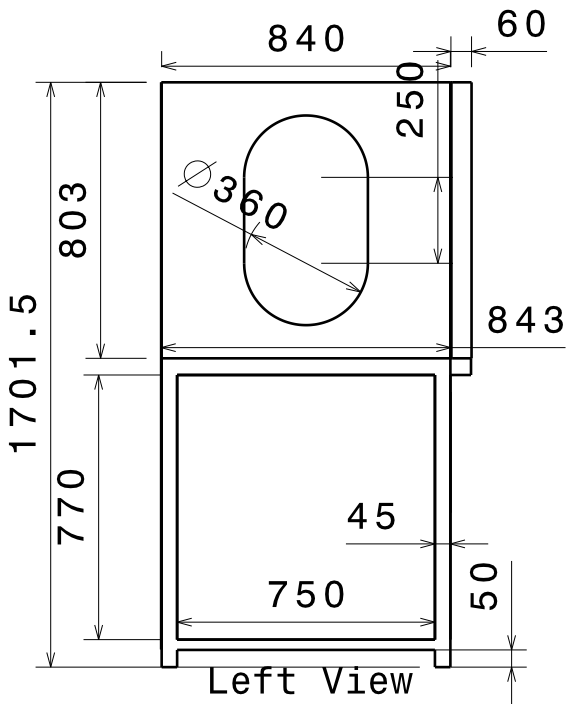
Dr. Sunil Jha  
Associate Professor  
Room No 156, Block III  
Dept of Mechanical Engineering  
IIT Delhi, Hauz Khas,  
New Delhi – 110016



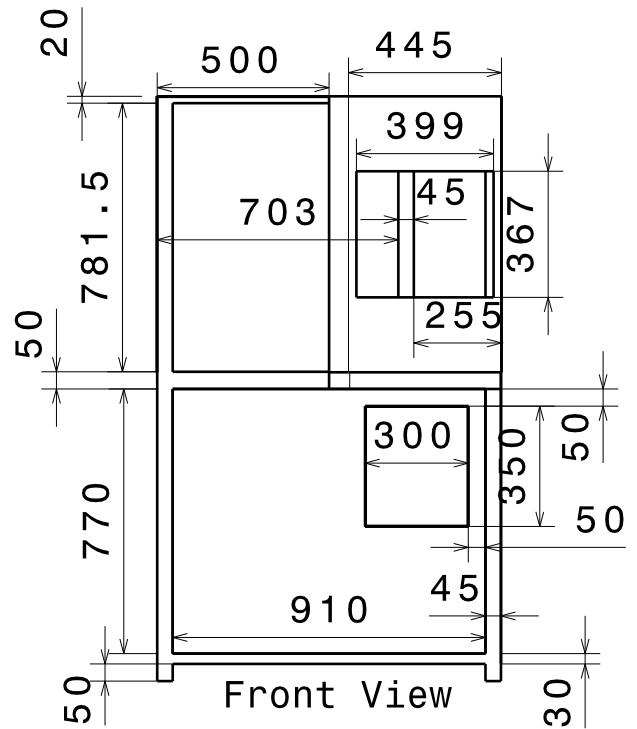
Isometric view  
Scale: 1:22



Top View



Left View



Front View

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INDIAN INSTITUTE OF TECHNOLOGY, DELHI  
HAUZ KHAS, NEW DELHI-110016

DRAWN BY  
Vizitashaw Bathla

DATE  
29-11-2013

## CNC MRF MACHINE STRUCTURE

CHECKED BY  
Dr. Sunil Jha

DATE  
29-11-2013

SIZE A4

SCALE 1-22

SHEET 1-1

DESIGNED BY  
Vizitashaw Bathla

DATE  
29-11-2013

All Dimensions are in MM