

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

**NOTICE INVITING QUOTATIONS**

Dated:23<sup>rd</sup> December 2014

Tender No:

Subject: **Purchase of Automation Modules**

**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 supplier for **supply, installation & commissioning of Automation Modules** 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 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 08<sup>th</sup> January 2015.**

**TECHNICAL SPECIFICATION:**

<b>S. No</b>	<b>Items</b>	<b>Qty</b>
1.	<b>Automatic Pick and Place system:-</b> with following specifications <b>Micrologix 1400 PLC</b> to program the system automatic and manual cycles <b>Double acting Pneumatic actuators (2 nos. :</b> 1 for extracting parts from gravity fed magazine, 1 for moving gripper up and down) <b>Pneumatic gripper</b> to pick and place parts from table to box <b>DC Motor for swiveling motion</b> of Gripper <b>Metallic parts</b> to be picked and placed from the magazine to the box <b>Solenoid actuated Direction Control valves (DCVs)</b> to control pneumatic power to actuators and gripper <b>Proximity Sensors</b> to detect presence of parts in front of actuators <b>Pneumatic Filter Regulator</b> to control Pneumatic pressure <b>24V DC Power supply</b> Proper Electrical wiring through terminals Pneumatic supply distribution to all actuators <b>Control Board</b> having following switches and indicators <b>Start, Stop, Reset Push buttons</b> <b>Emergency stop button</b> <b>Selector switch</b> to select between automatic and manual cycles	1 no.

2.	<p><b>Automatic Stamping system:-</b> with following specifications</p> <p><b>Micrologix 1400 PLC</b> to program the system automatic and manual cycles  <b>Double acting Pneumatic actuators (3 nos. :</b> 1 for extracting parts from gravity fed magazine, 1 for up and down movement of stamp, 1 for moving parts after being stamped)  <b>Metallic parts</b> to be Extracted from the magazine and stamped  <b>Solenoid actuated Direction Control valves (DCVs)</b> to control pneumatic power to actuators  <b>Proximity Sensors</b> to detect presence of parts in front of actuators  <b>Pneumatic Filter Regulator</b> to control Pneumatic pressure  <b>24V DC Power supply</b>  Proper Electrical wiring through terminals  Pneumatic supply distribution to all actuators  <b>Control Board</b> having following switches and indicators  <b>Start, Stop, Reset Push buttons</b>  <b>Emergency stop button</b>  <b>Selector switch</b> to select between automatic and manual cycles</p>	1 no.
3.	<p><b>Automatic Sorting system:-</b> with following specifications</p> <p><b>Micrologix 1400 PLC</b> to program the system automatic and manual cycles  <b>Double acting Pneumatic actuators (2 nos. :</b> 1 for extracting parts from gravity fed magazine on to the conveyer, 1 for pushing parts from conveyer to box)  <b>Metallic and non-metallic parts</b> to be Extracted from the magazine and sorted  <b>Solenoid actuated Direction Control valves (DCVs)</b> to control pneumatic power to actuators  <b>Conveyer Belt system with DC motor</b>  <b>Proximity Sensors</b> to detect presence of parts in front of actuators  <b>Pneumatic Filter Regulator</b> to control Pneumatic pressure  <b>24V DC Power supply</b>  Proper Electrical wiring through terminals  Pneumatic supply distribution to all actuators  <b>Control Board</b> having following switches and indicators  <b>Start, Stop, Reset Push buttons</b>  <b>Emergency stop button</b>  <b>Selector switch</b> to select between automatic and manual cycles</p>	1 no.
4.	<p><b>Pneumatic Gripper Kit:-</b> with following specifications</p> <p>Parallel Gripper, Angular Gripper, Three point chuck and Rotary cylinder mounted on Plate with accessories.</p>	1 no.

### 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.
2. 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.
  3. 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.
  4. 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.
  5. One year comprehensive warranty be provided and AMC price beyond 1 years should be mentioned separately.
  6. Payment: 100 % payment within 30 days after successful installation and commissioning
  7. Delivery period: within 1 month from the issue of supply order.
  8. Quotations must have a validity of at least 3 months.
  9. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.
  10. 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.
  11. 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.
  12. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any reasons.

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