

Enquiry No. IITK/CHM/MC/13-14/12

Due date: 09/09/2013

Please send us quotations for the following item. A single company/ distributor should quote for all the items. Partial quotations are not allowed.

**ITEM 1.** Right-Handed Stainless Steel Crossed-Roller XYZ Translation Stage with a Piezo linear actuator installed in the z- axis.

**Quantity :1**

The translation stage should have the following specifications

Metric/Imperial Compatibility	Metric
Travel Requirements	1.0 in. (25.4 mm)
Axes of Travel	X, Y, Z
Travel	1.00 in. (25.4 mm)
Load Capacity	50 lb (222 N)
Bearings	Crossed-Roller Bearings
Material	Stainless Steel
Thread Type	M4 and M6
Angular Deviation	150 $\mu$ rad
Straightness, Flatness	3 $\mu$
Special Features	Lockable
Actuators Required	1 (along Z axis)
Actuator specification	better than 30 nm resolution with minimal backlash over a 1 inch (25.4 mm) travel range

**ITEM 2.** Piezo linear Actuators for linear translation stage

**Quantity :2**

Piezo linear Actuator should have the following specifications

These linear piezo actuators should be exactly the same as that quoted for ITEM 1

Metric/Imperial Compatibility	Either metric or Universal
Travel Range	25.4 mm
Minimum Incremental Motion	<30 nm
Maximum Speed	1.2 mm/ min
Axial Load Capacity (+Cx)	22 N
Maximum Torque (My)	0.018 Nm
Operating Temperature Range	10-40 °C
Life time	> 1 x 10 <sup>9</sup> steps

**ITEM 3.** Controller and driver Kit for Piezo linear Actuators (mentioned under both item 1 and 2) for linear translation stage

**Quantity :1**

Specification: The controller and driver should be exactly compatible with the linear piezo actuators quoted under item 1 and 2. The controller and driver should have 3 axes (at least). The Kit should include hand control pad ( or hand terminal), necessary power supply, power cable, USB cable, communication cables and connectors etc. The controller and driver should have LabVIEW™ and Windows™ DLL support/compatibility

**Terms and conditions:**

1. Maximum educational discounts should be applied – these equipments will be used for research purposes only.
2. The quotation should have a validity of minimum 60 days.
3. The delivery period should be specifically stated.
4. Warranty period should be mentioned and whether after-sale services are available in India or not. Also, The vendor must be able to provide technical support throughout the warranty period.
5. Quotes should be made options for the following delivery modes
  - I. FOB in country of origin
  - II. CIF, Kanpur
6. Quotation should carry proper certifications like authorization certificate, proprietary

certificate, etc. (if applicable).

7. Please mention tender notice number on top of envelop.

Please send your best offer on or before 09/09/2013 to the address given below.

Mail the quotation to:

Manabendra Chandra

Assistant Professor

Department of Chemistry

Indian Institute of Technology, Kanpur.