

**Enquiry No: ME/JRK/01-2012-13**

**Dated: April 16, 2012**

Sub: Purchase of XYZ-R MOTORIZED STAGE

Dear Sir:

We are interested in purchase of XYZ-R MOTORIZED STAGE system with the specifications mentioned below. Please send sealed quotations for the same to:

Prof. J Ramkumar  
Mechanical Engineering  
Indian Institute of Technology  
Kanpur 208 016

**Specifications for XYZ-R motorized stage**

XYZ motion : 50mm each

R motion : 360° (about Z axis)

Controller: Should be interfaced with the computer through USB, compatible with Windows 7

Drive : Stepper/Servo (The motion at low speed should be smooth, micro stepping required in case of stepper motor) coupled with a low friction ball screw

Speed : Upto 8 mm/sec

Load capacity: 500 gm on z-axis

Minimum repeatable incremental movement: <0.2  $\mu\text{m}$  in XYZ, <0.5° in R

Bidirectional repeatability: 1  $\mu\text{m}$

Run out over full range: <5  $\mu\text{m}$  in XYZ

Backlash: <1  $\mu\text{m}$

Overall size: As compact as possible

Overall weight: As light as possible

Others: Limit switches at both ends of each stage to prevent overdrive

**Note:**

1. The envelope must be inscribed with word "Quotations for XYZ-R MOTORIZED STAGE" and should be packed technical and financial in separate envelops.
2. All quotations must reach by **April 30, 2012**, at or before 1600 hrs.
3. The quotation must be valid for 90 days.
4. The delivery period should not be more than 4 weeks.
5. Send complete details of the products.
6. Payment terms: 90% on installation, 10% after satisfactory report.
7. All prices are to be FOR IIT Kanpur.

