



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

No.: Mech-PRJ-307-18-19

Date: .12.2018

## Request for Quotation

To

M/s Advanced Photonics

619 Nirmal Lifestyles corporate center

LBS Marg, Mulund West, Mumbai 400080

Ph : 91-22-25613102

Fax : 91-22-25684777

Email: [sales@advancedphotonicsindia.com](mailto:sales@advancedphotonicsindia.com)

**Subject: Supply and installation of Motorized Linear stage and 3 axes stage controller**

Sir,

Indian Institute of technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

Purchase of the material/ equipment listed below:			
S No	Description of item(s)	Quantity	Delivery
1	Motorized liner stage	02	At the earliest
2	Motolized liner stage	01	
3	3 axes stage controller	01	
Specification as per attached			

### INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item, proprietary and authorization certificate form OEM.
- 2) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of one years.
- 3) Please mention after sales service information in your offer.
- 4) ***Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly and three purchase order issued from Govt. organization/ institution in India***
- 5) The rates should be quoted for each item separately.
- 6) Rates quoted will be taken as inclusive of all taxes unless given separately. IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of tax applicable should be quoted.
- 7) Being an IIT's and equipment will be used for research purpose. GST should be quoted @ 5%.
- 8) The items/ materials shall be required to be delivered at Mech. Engg. Deptt. of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 9) Your tender must be **valid for minimum 180 days** from the date of opening of tender.
- 10) The stores are required to be delivered within 30 days late delivery may not be accepted.
- 11) GST Registration Number should be clearly mentioned in your offer, failing which your offer may not be considered.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.



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- 13) The successful bidder has to submit performance bank guarantee @10% of total order value within one week from the date of purchase order as per rule.
- 14) **Advance or part payment is not admissible.** Payment shall normally be made within 4-6 weeks subject to receipt and acceptance & installation of the ordered materials/items and submission of bills, PBG followed by its verification etc. (as per Purchase Order Terms).
- 15) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 16) **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
- 17) Tender may please be submitted **in sealed cover only superscribed with Enquiry No. Mech-PRJ-307-18-19 and due date as is immediately.**
- 18) IIT (ISM) reserves the right to accept and/or to reject any/all tenders without assigning any reason.

Assistant Registrar (P&S)



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## Annexure-I

### Specifications of Motorized linear stage (2 numbers, perpendicular motion)

(One stage for moving in one axis or combination of two stages fit at 90 degree)

SL. NO.	Specifications	Values
1.	Travel distance (mm)	100±20%
2.	Maximum speed (mm/s)	200 or more
3.	Minimum speed (micro m/s)	50 or less
4.	Minimum Incremental Motion/resolution (nm)	Not more than 50
5.	Centered Load Capacity (N)	100 or more
6.	Accuracy (nm)	±500 or better
7.	Bi-directional Repeatability (nm)	±40 or better
8.	Flatness, (μm)	±1.0 or better
9.	Straightness, (μm)	±1.0 or better
10.	Pitch, ( ʳad)	±20 or better
11.	Roll, ( ʳad)	±29 or better
12.	Orthogonality ( ʳad)	96 or better

### Other required features:

- Integrated XY stages with built-in orthogonality.
- Standard Test Report should be provided along with the product.

### Specifications Motorized linear stage (1 number):

SL. NO.	Specifications	Values
1	Travel distance (mm)	30 to 100
2	Maximum Speed (mm/s)	10 or more
3	Minimum speed (micro m/s)	50 or less
4	Minimum Incremental Motion/resolution (nm)	100 or less
5	Centered Load Capacity (N)	40 or more
6	Accuracy (nm)	±400 or better
7	Bi-directional Repeatability (nm)	±75 or better
8	Flatness, (μm)	0.75 or better
9	Straightness, (μm)	0.75 or better
10	Pitch, ( ʳad)	±20 or better
11	Roll, ( ʳad)	±15 or better

### Other required features:

- Anti creep crossed ball bearings and stage with manual knob facility.
- Metrology Report should be provided along with the product.
- Base plate should be provided for mounting Z stage on XY to form XYZ Configuration.



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## Specifications of 3 axes stage controller:

SL. NO.	Specifications	
1	Type	Universal Controller
2	Motion	Multi Axis, Synchronized point to point, Linear/circular interpolation, Splines, wide variety of motion
3	Error compensation	Linear, backlash
4	Connectivity	Ethernet port
5	Number of Axis	Minimum 3
6	Driver card	Driver card should be compatible with the provided motors of stages

## Other required features of controller:

- Compatible with the stages.
- Command Motion with an External Analog Device.
- TCL and labview support