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प्लाज्मा अनुसंधान संस्थान  
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परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त संस्थान  
**An Aided Institute of Department of Atomic Energy,  
Government of India**



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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/116  
Date : 29-08-2018

**Due on : 27-09-2018 by 1:00 PM IST**

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items which we are interested to import directly against Foreign Trade Policy 2015-2020.

### Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to [importpurchase@ipr.res.in](mailto:importpurchase@ipr.res.in)

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., [http://www.ipr.res.in/documents/tender\\_terms.html](http://www.ipr.res.in/documents/tender_terms.html) / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-FP-01.V3**)
- 2) Bidding format

**GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS):** Please refer **clause no: 14** of Form No: **IPR-FP-01.V3**

### QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	High Precision Hybrid (piezo and manual) Translation Stage with control unit as per the given specifications	1.0 Set

Note: Please quote with complete technical details (Technical compliance sheet and product data sheet).

Encl: As per attached specification sheet.

Sd/-

Mr. Nipen Nath  
Assistant Purchase Officer

**Information to Vendors:** We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e., <http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

<b>High Precision Translation Stage with Compatible Controller</b>		
<b>Parameter</b>	<b>Desired</b>	<b>Quantity</b>
Type	Hybrid (manual with differential micrometer + Piezo)	1
Motion	3 axis (XYZ) linear	
Travel	Manual: $\geq 4$ mm	
	Peizo: $\geq 15$ micron	
Resolution	Manual: Coarse: 10 micon Fine : < 1 micron	
	Peizo: better than 50 nm	
Load capacity	~ 500 g	
Thermal stability	$\leq 1$ micron/degree C	
Maximum crosstalk	< 100 micron for maximum travel	
Bidirectional repeatability	better than 0.25micron	

<b>Controller Compatible with the Stage</b>		
<b>Parameter</b>	<b>Desired</b>	<b>Quantity</b>
Type	Piezo controller with three independent axis controls	1
Number of channels	3	
Operating voltage	220 V @ 50Hz	
Computer interface	Interfacing software compatible with windows 7 or higher	
Communication	USB/RS-232	
Display	Peizo displacement / Piezo voltage (simultaneous for all channels)	

**Compliance Sheet for High Precision Translation Stage and Compatible Controller**

<b>High Precision Translation Stage with Compatible Controller</b>		
<b>Description</b>	<b>Specification</b>	<b>Offered Specification</b>
Type	Hybrid (manual with differential micrometer + Piezo)	
Motion	3 axis (XYZ) linear	
Travel	Manual:    ≥ 4 mm	
	Peizo:       ≥ 15 micron	
Resolution	Manual:    Coarse: 10 micon Fine : < 1 micron	
	Peizo:       better than 50 nm	
Load capacity	~ 500 g	
Thermal stability	≤ 1 micron/degree C	
Maximum crosstalk	< 100 micron for maximum travel	
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