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प्लाज्मा अनुसंधान संस्थान  
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**An Aided Institute of Department of Atomic Energy,  
Government of India**



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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/155  
Date : 05-11-2018

**Due on : 13-12-2018 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	X-Y Translation Stage with controller and software as per the attached specification	2.0 Set

Note: 1. Please quote with complete technical details (Technical compliance sheet and product data sheet).  
2. TDS as per CGST Act: As per provisions of section No. 51 of the CGST Act 2017, TDS @2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 lakhs, in the event of order in Indian Rupees. Necessary TDS Certificate will be issued to the supplier after TDS deduction.

Encl: Other details are as per attached specification sheet.

Sd/-

Mr. D. Ramesh  
Purchase Officer-II

**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.

Specification for the high vacuum compatible X-Y translation stage, controller and software

<b>Specification</b>	<b>IP Requirement</b>
Vacuum compatibility	Better than $5 \times 10^{-6}$ mbar
Absolute positioning accuracy	<12 $\mu$ m
Repeatability	~2 $\mu$ m
Straight line accuracy	<2 $\mu$ m
Material Construction	Aluminum alloy 6061 (B51S)
Finish	without anodizing
Travel length	50mm
Resolution	~5 $\mu$ m (Half step)
Linear guide	Grass free Cross roller bearings (grease free) with precision 'V' groove
Maximum speed	4mm/sec (4 rps)
Actuator	high vacuum compatible Stepper motor Motor Bakeable at 200°C
Bakeable temperature	200°C
Limit switches	Limit switch in both ends (High vacuum compatible)
Pay-load	10 kg
Mounting holes	M6 tapped holes on 25mm grid
Overall height	Single axis stage : <40mm XY axis : <90mm including base plate
Two axis Controller and software	Controller to drive the stepper motors Software with Lab-View compatibility
Quantity	2 sets of ( X Y translator and controller)

## Technical compliance sheet

Specification	IP Requirement	Vendor compliance
Vacuum compatibility	Better than $5 \times 10^{-6}$ mbar	
Absolute positioning accuracy	<12 $\mu\text{m}$	
Repeatability	~2 $\mu\text{m}$	
Straight line accuracy	<2 $\mu\text{m}$	
Material Construction	Aluminum alloy 6061 (B51S)	
Finish	without anodizing	
Travel length	50mm	
Resolution	~5 $\mu\text{m}$ (Half step)	
Linear guide	Grass free Cross roller bearings (grease free) with precision 'V' groove	
Maximum speed	4mm/sec (4 rps)	
Actuator	high vacuum compatible Stepper motor Motor Bakeable at 200°C	
Bakeable temperature	200°C	
Limit switches	Limit switch in both ends (High vacuum compatible)	
Pay-load	Minimum 5 kg	
Mounting holes	M6 tapped holes on 25mm grid	
Overall height	Single axis stage : <40mm XY axis : <90mm including base plate	
Two axis Controller and software	Controller to drive the stepper motors Software with Lab-View compatibility	

Bidder's Stamp and Sign:

Date: