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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/18-19/105  
Date : 10-08-2018

**Due on : 29-11-2018 by 1:00 PM IST**

Reminder-1 Dt: 20-09-2018

Reminder-2 Dt: 25-10-2018

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	Linear Translation stage: Type-1 as per attached specifications	1.0 Nos.
2	Linear Translation stage: Type-2 as per attached specifications	1.0 Nos.
3	Linear Translation stage: Type-3 as per attached specifications	1.0 Nos.
4	Compatible Driver-controller for above stages	3.0 Nos.
5	Power supply	1.0 Set
6	Control Software and accessories	1.0 Set

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

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/tenderseng.html> for our future requirement.

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.

**Specifications for linear translation stage with compatible driver and controller**

<b>A</b>	<b>Linear Translation stage: Type-1 :Quantity = One</b>	
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>
1	Orientation	Horizontal
2	Stroke	800 mm
3	Maximum length	1100 mm or less
4	Stage width	60 mm or less
5	Load to move horizontally	Should be able move at least 15 Kg at 100mm/s speed or better
6	Lead	6mm
7	Linear step resolution	1mm or better
8	Positioning accuracy	0.01 mm or better
9	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on table
10	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.
11	Motion mechanism	lead screw or Ball screw
12	Motor type	Stepper or Servo
13	Encoder	Absolute type
14	Motor thrust	150 N or more
15	Linear speed	100 mm /s or more
16	Weight of the complete stage	< 8 Kg
17	Body material	Aluminum with protective cover from dust
18	Standard Life	Better than 1000 km
19	Cable exit direction	Left to the motor

<b>B</b>	<b>Linear Translation stage: Type-2 :Quantity = One</b>	
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>
1	Orientation	Horizontal and vertical use
2	Stroke	300 mm
3	Maximum length	500 mm or less is preferable, if not available then maximum length < 600 mm may be quoted.
4	Stage width	60 mm or less
5	Load to move horizontally	Should be able move at least 15 Kg at 100mm/s speed or better
6	Load to move vertically	Should be able move at least 3 Kg at 100mm/s speed or better
7	Lead	6mm
8	Linear step resolution	1mm or better

9	Positioning accuracy	0.01 mm or better
10	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on table
11	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.
12	Motion mechanism	Side mounted motor
13	Motor type	Stepper or Servo
14	Encoder	Absolute type
15	Motor thrust	150 N or more
16	Linear speed	100 mm /s or more
17	Weight of the complete stage	< 4 Kg
18	Body material	Aluminum with protective cover from dust
19	Brake	Should be electromagnetic break equipped to keep the load fixed in vertical use in case of power failure.
20	Standard Life	Better than 1000 km

C	<b>Linear Translation stage: Type-3 :Quantity = One</b>	
Sr.	Specifications	Required
1	Orientation	Vertical
2	Stroke	800 mm
3	Brake	Should be electromagnetic break equipped to keep the load fixed in case power failure.
4	Maximum length	1150 mm or less
5	Stage width	60 mm or less
6	Load to move Vertically	Should be able move at least 5 Kg at 100mm/s speed or better
7	Lead	6mm
8	Linear step resolution	1mm or better
9	Positioning accuracy	0.01 mm or better
10	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on vertical platform
11	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.
12	Motion mechanism	lead screw or Ball screw
13	Motor type	Stepper or Servo
14	Encoder	Absolute type
15	Motor thrust	150 N or more
16	Linear speed	100 mm /s or more
17	Weight of the complete stage	< 5 Kg
18	Body material	Aluminum with protective cover from dust
19	Cable exit direction	Left to the motor
20	Standard Life	Better than 1000 km

<b>D</b>	<b>Compatible Driver-controller for above stages :Quantity = 3 nos</b>	
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>
1	Controllability	Compatible driver for all 3 stages which can be controlled independently. The Driver-controller SET should be able to run the three stages simultaneously without physically changing connections from a single PC.
2	Input voltage	230 VAC, 50 Hz to driver-controller
3	Control	should be programmable with open source TCP/IP protocol
4	Manual	Programming manual along with all syntax should be given
5	Cable	at least 5 m cable from stage to driver-controller.
6	Options	Collision detection function should be present to avoid actuator damage in case of obstacles.

#### **E. Optional Accessories:**

1. Power supply: Compatible power supply with 230 VAC, 50Hz, single phase input should be included to supply Driver controller in case they are not driven by 230VAC, 50Hz, single phase.
2. Software: Windows-PC based software should be supplied along with Manual, CD / Media to control the stages.
3. Cables and spares: Connection cables, adaptors, convertors, and important spares should be quoted as option.

#### **Important NOTE:**

1. The quotation should include hard copy/ soft copy/ weblink of the detailed specifications or manual of the model that is being quoted. Without this information, the quotation cannot be considered.
2. The quotation MUST include the compliance sheet (being provided with this inquiry) filled with the values/offer against each point of the specifications. Merely writing “YES” without supplying the relevant document as a proof will result non-consideration of the quotations.
3. Depending on the quotations received, order for partial quantity may be placed. The vendor may quote more than one model along with all technical specifications documents.

### Compliance sheet

*(To be filled by the vendor and to be sent along with the quotation)*

Vendors are requested to fill in the specifications of their quoted model. More than one model or specifications can be mentioned. Any deviation/ suggestion **MUST clearly be mentioned** here vis-à-vis our specifications. Extra sheet may be used if required.

<b>A</b>	<b>Linear Translation stage: Type-1</b>		
	<b>:Quantity = One</b>		
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>	<b>Vendor's Specification for the quoted MODEL</b>
1	Orientation	Horizontal	
2	Stroke	800 mm	
3	Maximum length	1100 mm or less	
4	Stage width	60 mm or less	
5	Load to move horizontally	Should be able move at least 15 Kg at 100mm/s speed or better	
6	Lead	6mm	
7	Linear step resolution	1mm or better	
8	Positioning accuracy	0.01 mm or better	
9	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on table	
10	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.	
11	Motion mechanism	lead screw or Ball screw	
12	Motor type	Stepper or Servo	
13	Encoder	Absolute type	
14	Motor thrust	150 N or more	
15	Linear speed	100 mm /s or more	
16	Weight of the complete stage	< 8 Kg	
17	Body material	Aluminum with protective cover from dust	



18	Standard Life	Better than 1000 km	
19	Cable exit direction	Left to the motor	

<b>B</b>	<b>Linear Translation stage: Type-2 :Quantity = One</b>		<b>Vendor's Specification for the quoted MODEL</b>
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>	
1	Orientation	Horizontal and vertical use	
2	Stroke	300 mm	
3	Maximum length	500 mm or less is preferable, if not available then maximum length < 600 mm may be quoted.	
4	Stage width	60 mm or less	
5	Load to move horizontally	Should be able move at least 15 Kg at 100mm/s speed or better	
6	Load to move vertically	Should be able move at least 3 Kg at 100mm/s speed or better	
7	Lead	6mm	
8	Linear step resolution	1mm or better	
9	Positioning accuracy	0.01 mm or better	
10	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on table	
11	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.	
12	Motion mechanism	Side mounted motor	
13	Motor type	Stepper or Servo	
14	Encoder	Absolute type	
15	Motor thrust	150 N or more	
16	Linear speed	100 mm /s or more	
17	Weight of the complete stage	< 4 Kg	
18	Body material	Aluminum with protective cover from dust	
19	Brake	Should be electromagnetic break equipped to keep the load fixed in vertical use in case of power failure.	
20	Standard Life	Better than 1000 km	

C	<b>Linear Translation stage: Type-3 :Quantity = One</b>		
Sr.	Specifications	Required	Vendor's Specification for the quoted MODEL
1	Orientation	Vertical	
2	Stroke	800 mm	
3	Brake	Should be electromagnetic break equipped to keep the load fixed in case power failure.	
4	Maximum length	1150 mm or less	
5	Stage width	60 mm or less	
6	Load to move Vertically	Should be able move at least 5 Kg at 100mm/s speed or better	
7	Lead	6mm	
8	Linear step resolution	1mm or better	
9	Positioning accuracy	0.01 mm or better	
10	Mounting holes	Mounting holes metric size should be available at the base side of stage to fix on vertical platform	
11	Mounting of Job	Holes (at least 4) should be available on top of the stage to fix the load. Bolts should be supplied in case they are not standard or metric.	
12	Motion mechanism	lead screw or Ball screw	
13	Motor type	Stepper or Servo	
14	Encoder	Absolute type	
15	Motor thrust	150 N or more	
16	Linear speed	100 mm /s or more	
17	Weight of the complete stage	< 5 Kg	
18	Body material	Aluminum with protective cover from dust	
19	Cable exit direction	Left to the motor	
20	Standard Life	Better than 1000 km	

<b>D</b>	<b>Compatible Driver-controller for above stages :Quantity = 3 nos</b>		
<b>Sr.</b>	<b>Specifications</b>	<b>Required</b>	<b>Vendor's Specification for the quoted MODEL</b>
1	Controllability	Compatible driver for all 3 stages which can be controlled independently. The Driver-controller SET should be able to run the three stages simultaneously without physically changing connections from a single PC.	
2	Input voltage	230 VAC, 50 Hz to driver-controller	
3	Control	should be programmable with open source TCP/IP protocol	
4	Manual	Programming manual along with all syntax should be given	
5	Cable	at least 5 m cable from stage to driver-controller.	
6	Options	Collison detection function should be present to avoid actuator damage in case of obstacles.	

Date :

Signature of the Bidder with official seal