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



इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT
DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2000/2026/2332
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/143
Date : 12-10-2018

Due on : 22-11-2018 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

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 / 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	30 mm post	20.0 Nos.
2	50 mm post	30.0 Nos.
3	100 mm post	20.0 Nos.
4	30 mm post holder	20.0 Nos.
5	50 mm post holder	30.0 Nos.
6	100 mm post holder	20.0 Nos.
7	Post base (U-type)	10.0 Nos.
8	Post base (H-type)	20.0 Nos.
9	Post clamp bracket	6.0 Nos.
10	Mounted variable aperture	10.0 Nos.
11	90 degree post clamp	15.0 Nos.

12	M4 to M6 adopter	20.0 Nos.
13	X-Y adjustable lens mount for 2 inch optics	2.0 Nos.
14	X-Y adjustable lens mount for 1 inch optics	2.0 Nos.
15	Beam Steering system	2.0 Nos.
16	Adjustable laser mount	1.0 Nos.
17	Linear motion translation stage	6.0 Nos.

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/tendersenq.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.

Specification for Opto-Mechanical Components

1) Post L= 30 mm

Length	30 mm
Diameter	12 mm.
Material	Stainless steel
Finish	Precision ground finish
Mounting holes	One end M6 tapped hole and other end M4 tapped hole
Quantity	20

2) Post L= 50 mm (with engraved scale)

Length	50 mm
Diameter	12 mm
Scale	Laser engraved scale
Material	Stainless steel
Finish	Precision ground finish
Mounting holes	One end M6 tapped hole and other end M4 tapped hole
Quantity	30

3) Post L= 100 mm (with engraved scale)

Length	100 mm
Diameter	12 mm
Scale	Laser engraved scale
Material	Stainless steel
Finish	Precision ground finish
Mounting holes	One end M6 tapped hole and other end M4 tapped hole
Quantity	20

4) Post holder L=30mm

Length	30 mm
Material	Aluminum alloy
Finish	Black anodized mat finish
Bore size	12 mm, Suitable for 12 mm diameter post
Mounting hole	M6 tapped hole at the base
Post mounting	Post hold by thumbscrews
Quantity	20

5) Post holder L=50 mm

Length	50 mm
Material	Aluminum alloy
Finish	Black anodized mat finish
Bore size	12 mm, Suitable for 12 mm diameter post
Mounting hole	M6 tapped hole at the base
Post mounting	Post hold by thumbscrews
Quantity	30

6) Post holder L= 100 mm

Length	100 mm
Material	Aluminum alloy
Finish	Black anodized mat finish
Bore size	12 mm, Suitable for 12 mm diameter post
Mounting hole	M6 tapped hole at the base
Post mounting	Post hold by thumbscrews
Quantity	20

7) Post base (U-type)

Type	U-Type (post holder mounted at the one end of the base)
Material	Aluminium alloy
Finish	Black anodized mat finish
Dimension	~ 60 x 25 mm
Mounting holes	M6 clearance slots for mounting to breadboards. M6 bored holes for mounting post holders
Quantity	10

8) Post base (H-type)

Type	H-Type (post holder mounted at the center of the base)
Material	Aluminium alloy
Finish	Black anodized mat finish
Dimension	~ 70 x 25 mm
Mounting holes	M6 clearance slots for mounting to breadboards. M6 bored holes for mounting post holders
Quantity	20

9) Post clamp bracket

Type	Suitable for mounting the optical mounts in horizontal plane. Compatible with 12 mm diameter post.
Material	Aluminium alloy
Finish	Black anodized mat finish
Mounting area	~ 60 x 60 mm
Bracket mounting	Slot for M6 bolt
Component mounting	M6 tapping with 25 mm separation
Quantity	6

10) Mounted variable aperture

Type	Continuously variable Circular
Range	~ 1mm diameter to 25 mm
Material	Aluminium (housing) and steel (leave)
Finish	Black anodized
Mounting	Suitable mounting with M6 tapped hole
Quantity	10

11) 90° post clamp

Type	360° rotatable post clamp compatible with 12 mm diameter post to hold two post at an angle of 90° to each other
Post mount	M6 locking knob
Material	Aluminium
Finish	Black anodized
Quantity	15

12) M4 to M6 adopter

Type	M4 to M6 adopter
M4	Male
M6	Male
Material	SS
Quantity	20

13) X-Y adjustable lens mount for 2 inch optics

Type	X-Y adjustable lens mount (with respect to beam along z-axis)
Optics compatibility	Compatible for 2 inch optics
Optics mounting	Threaded ring
Travel range	>/= 3 mm for both X and Y axis
Adjustment	With precision spring loaded screw
Material	Aluminium alloy
Finish	Black anodized mat finish
Mounting	M6 hole and compatible with post mounting
Quantity	2

14) X-Y adjustable lens mount for 1 inch optics

Type	X-Y adjustable lens mount (with respect to beam along z-axis)
Optics compatibility	Compatible for 1 inch optics
Optics mounting	Threaded ring
Travel range	>/= 3 mm for both X and Y axis
Adjustment	With precision spring loaded screw
Material	Aluminium alloy
Finish	Black anodized mat finish
Mounting	M6 hole and compatible with post mounting
Quantity	2

15) Beam Steering system

Type	Beam steering system which include kinematic mirror mounts, translations stages and heavy duty post
Optics compatibility	Compatible for 1 inch optics
Optics mounting	45° kinematic mirror mount with lead screw for tilting and ~ 10 mm translation
Travel range	>/= 300 mm vertical (in heavy duty post)
Beam rotation angle	~ 360° With lock
Material	Aluminium alloy
Finish	Black anodized mat finish
Mounting assembly	Whole system should be mounted on heavy duty post with M6 bore
Quantity	2

16) Adjustable laser mount

Type	Adjustable height, tilt and rotation laser mount coupled with heavy duty post
X-Y travel	~ 25 mm on each axis with micrometer
Tilt adjustment	~ ± 2.5° (Yaw and pitch)
Laser mount	Compatible with 45 mm laser diameter with ± 5° adjustment
Minimum laser beam height	~160 mm
Maximum laser beam height	>/= 400 mm
Mounting assembly	Whole system should be mounted on heavy duty post with M6 bore
Quantity	1

17) Linear motion translation stage

Type	Micrometre based linear translation stage
Micrometer resolution	~ 10 micrometer
Linear travel	10 mm
Carriage	50 x 50 mm with M4 tap hole
Weight capacity	2 Kg
Mounting	It should have two M6 counter bore for mounting on standard 1 inch optical table with M6
Material	Aluminium
Finish	Black anodized mat finish
Quantity	6

Compliance sheet for Opto-Mechanical Components

1) Post L= 30 mm

Description	IPR specification	Offered specification
Length	30 mm	
Diameter	12 mm.	
Material	Stainless steel	
Finish	Precision ground finish	
Mounting holes	One end M6 tapped hole and other end M4 tapped hole	

2) Post L= 50 mm (with engraved scale)

Description	IPR specification	Offered specification
Length	50 mm	
Diameter	12 mm	
Scale	Laser engraved scale	
Material	Stainless steel	
Finish	Precision ground finish	
Mounting holes	One end M6 tapped hole and other end M4 tapped hole	

3) Post L= 100 mm (with engraved scale)

Description	IPR specification	Offered specification
Length	100 mm	
Diameter	12 mm	
Scale	Laser engraved scale	
Material	Stainless steel	
Finish	Precision ground finish	
Mounting holes	One end M6 tapped hole and other end M4 tapped hole	

4) Post holder L=30mm

Description	IPR specification	Offered specification
Length	30 mm	
Material	Aluminum alloy	
Finish	Black anodized mat finish	
Bore size	12 mm, Suitable for 12 mm diameter post	
Mounting hole	M6 tapped hole at the base	
Post mounting	Post hold by thumbscrews	

5) **Post holder L=50 mm**

Description	IPR specification	Offered specification
Length	50 mm	
Material	Aluminum alloy	
Finish	Black anodized mat finish	
Bore size	12 mm, Suitable for 12 mm diameter post	
Mounting hole	M6 tapped hole at the base	
Post mounting	Post hold by thumbscrews	

6) **Post holder L= 100 mm**

Description	IPR specification	Offered specification
Length	100 mm	
Material	Aluminum alloy	
Finish	Black anodized mat finish	
Bore size	12 mm, Suitable for 12 mm diameter post	
Mounting hole	M6 tapped hole at the base	
Post mounting	Post hold by thumbscrews	

7) **Post base (U-type)**

Description	IPR specification	Offered specification
Type	U-Type (post holder mounted at the one end of the base)	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Dimension	~ 60 x 25 mm	
Mounting holes	M6 clearance slots for mounting to breadboards. M6 bored holes for mounting post holders	

8) **Post base (H-type)**

Description	IPR specification	Offered specification
Type	H-Type (post holder mounted at the center of the base)	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Dimension	~ 70 x 25 mm	
Mounting holes	M6 clearance slots for mounting to breadboards. M6 bored holes for mounting post holders	

9) **Post clamp bracket**

Description	IPR specification	Offered specification
Type	Suitable for mounting the optical mounts in horizontal plane. Compatible with 12 mm diameter post.	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Mounting area	~ 60 x 60 mm	
Bracket mounting	Slot for M6 bolt	
Component mounting	M6 tapping with 25 mm separation	

10) **Mounted variable aperture**

Description	IPR specification	Offered specification
Type	Continuously variable Circular	
Range	~ 1mm diameter to 25 mm	
Material	Aluminium (housing) and steel (leave)	
Finish	Black anodized	
Mounting	Suitable mounting with M6 tapped hole	

11) 90° post clamp

Description	IPR specification	Offered specification
Type	360° rotatable post clamp compatible with 12 mm diameter post to hold two post at an angle of 90° to each other	
Post mount	M6 locking knob	
Material	Aluminium	
Finish	Black anodized	

12) M4 to M6 adopter

Description	IPR specification	Offered specification
Type	M4 to M6 adopter	
M4	Male	
M6	Male	
Material	SS	

13) X-Y adjustable lens mount for 2 inch optics

Description	IPR specification	Offered specification
Type	X-Y adjustable lens mount (with respect to beam along z-axis)	
Optics compatibility	Compatible for 2 inch optics	
Optics mounting	Threaded ring	
Travel range	>/= 3 mm for both X and Y axis	
Adjustment	With precision spring loaded screw	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Mounting	M6 hole and compatible with post mounting	

14) X-Y adjustable lens mount for 1 inch optics

Description	IPR specification	Offered specification
Type	X-Y adjustable lens mount (with respect to beam along z-axis)	
Optics compatibility	Compatible for 1 inch optics	
Optics mounting	Threaded ring	
Travel range	>/= 3 mm for both X and Y axis	
Adjustment	With precision spring loaded screw	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Mounting	M6 hole and compatible with post mounting	

15) Beam Steering system

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Type	Beam steering system which include kinematic mirror mounts, translations stages and heavy duty post	
Optics compatibility	Compatible for 1 inch optics	
Optics mounting	45° kinematic mirror mount with lead screw for tilting and ~ 10 mm translation	
Travel range	>/= 300 mm vertical (in heavy duty post)	
Beam rotation angle	~ 360° With lock	
Material	Aluminium alloy	
Finish	Black anodized mat finish	
Mounting assembly	Whole system should be mounted on heavy duty post with M6 bore	

16) Adjustable laser mount

Description	IPR specification	Offered specification
Type	Adjustable height, tilt and rotation laser mount coupled with heavy duty post	
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Tilt adjustment	~ ± 2.5° (Yaw and pitch)	
Laser mount	Compatible with 45 mm laser diameter with ± 5° adjustment	
Minimum laser beam height	~160 mm	
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Mounting assembly	Whole system should be mounted on heavy duty post with M6 bore	

17) Linear motion translation stage

Description	IPR specification	Offered specification
Type	Micrometre based linear translation stage	
Micrometer resolution	~ 10 micrometer	
Linear travel	10 mm	
Carriage	50 x 50 mm with M4 tap hole	
Weight capacity	2 Kg	
Mounting	It should have two M6 counter bore for mounting on standard 1 inch optical table with M6	
Material	Aluminium	
Finish	Black anodized mat finish	

Date: _____

Bidder's Stamp and Sign: _____