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**An Aided Institute of Department of Atomic Energy,  
Government of India**



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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/123  
Date : 07-09-2018

**Due on : 11-10-2018 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	Coaxial feedthroughs with grounded shield as per attached specifications and image	2.0 Nos.
2	Crimping pins for coaxial feedthroughs	30.0 Nos.
3	Push on connectors for coaxial feedthroughs	30.0 Nos.
4	Coaxial subminiature D type feedthroughs as per attached specifications and image	2.0 Nos.
5	Invacuum PEEK connectors for coaxial subminiature D type feedthroughs along with contacts	2.0 Nos.
6	Air side connectors for coaxial subminiature D type feedthroughs along with contacts	2.0 Nos.
7	Coaxial feedthroughs single ended floating shield	2.0 Nos.
8	Kapton single sided tape as per attached specs	2.0 Nos.

9	Kapton single sided tape as per attached specs	2.0 Nos.
10	UHV compatible coaxial kapton wire 7X0.038 mm as per attached specs	30.0 Mtrs.
11	UHV compatible coaxial kapton wire 7X0.1 mm as per attached specs	30.0 Mtrs.

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

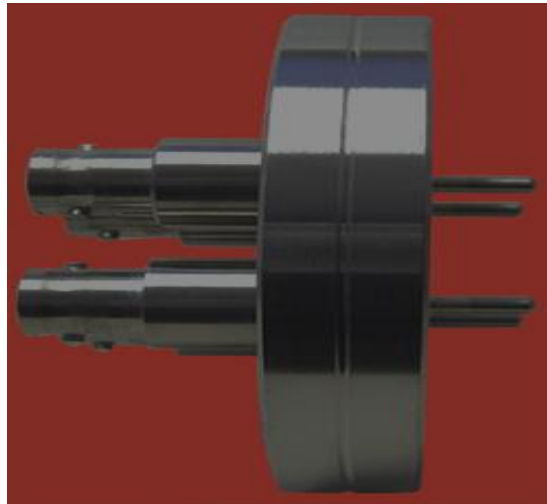
**Information to Vendors:** We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

## Format Technical Compliance Form

### Specifications Of Coaxial feedthroughs with grounded shield

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-1</b>		
1.	Operating Voltage	100 Volts or better	
2.	Operating Current	1 Amp or better	
3.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
4.	Feedthrough flange mounting	DN-40CF (2 3/4" OD flange)	
5.	Compliance	BNC grounded shield single ended	
6.	Material	Stainless steel 304L	
7.	Number of pins	4	
8.	Air side connectors	BNC	
9.	Vacuum side connectors	Crimping or push fit	

Note: The vendor has to quote separately crimping or push fit connectors required for the coaxial feedthrough. The image of the coaxial feedthrough required by us is attached for the vendor's reference.



**Specifications for Crimping and Push fit connectors for Coaxial feedthroughs**

Sr. no	Particulars	IPR requirement	Vendors Specifications
	<b>ITEM-2 and ITEM-3</b>		
1.	UHV compatible	$<1 \times 10^{-9}$ mbar-l/sec	
2.	Material	gold plated copper alloy/Becu with stainless steel screws	

## Specifications of Coaxial Sub miniature D Feedthroughs

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-4</b>		
1.	Operating Voltage	100 Volts or better	
2.	Operating Current	1 Amp or better	
3.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
4.	Feedthrough flange Mounting	63 CF	
6.	Flange material	SS304L	
7.	Number of coaxial pins	6	
8.	Insulation/seal	Glass-ceramic	
9.	Vacuum side connector range	10°C to 200°C or better	
10	Vacuum side connectors required	Yes	
11.	Air side connectors required	Yes	

Note: 1) Coaxial shield should float with respect to ground

2) Gold plated pins and shields should be in a straight through pin-to-pin design and should be hermetically sealed and electrically insulated in a stainless steel shell using the latest in glass-ceramic bonding technology

- 3) The vendor should quote separately the air side connectors and PEEK invacuum connectors for the coaxial subminiature D type feedthrough .
- 4) Only the image of the coaxial subminiature D type feedthrough to be considered



## Compliance Form

### Specifications Of Invacuum PEEK connectors for coaxial subminiature D-type feedthroughs

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-5</b>		
1.	UHV compatible	$<1 \times 10^{-9}$ mbar-l/sec	
2.	Contacts required	YES	

### Specifications of air side connectors for coaxial subminiature D-type feedthroughs

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-6</b>		
1.	UHV compatible	$<1 \times 10^{-9}$ mbar-l/sec	
2.	Contacts required	YES	

Note: Both the above connectors and contacts should be specifically related and suitable for the subminiature D type coaxial feedthrough supplied by the vendor.



## Format Technical Compliance Form

### Specifications Of Coaxial feedthroughs with floating shield

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-7</b>		
1.	Operating Voltage	100 Volts or better	
2.	Operating Current	1 Amp or better	
3.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
4.	Feedthrough flange mounting	DN-40CF (2 3/4" OD flange)	
5.	Compliance	BNC floating shield single ended	
6.	Material	Stainless steel 304L	
7.	Number of pins	1	
8.	Air side connectors	BNC	
9.	Vacuum side connectors	Crimping or push fit	

## Technical Compliance sheet for Specs kapton tape

Sl. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-8</b>		
1.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
2. 3.	Roll length	30 mtrs	
4..	Baking temperature	200°C	
5..	Width	Approximately 6 mm	

Sl. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-9</b>		
1.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
2. 3.	Roll length	30 mtrs	
4..	Baking temperature	200°C	
5..	Width	Approximately 9 mm	

## Format Technical Compliance Form

### Specifications for UHV Compatible Kapton wire

SI. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-10</b>		
1.	Max Voltage	>1kV	
2.	Max Current	0.5 A	
3.	Vacuum level UHV	$<1 \times 10^{-9}$ mbar-l/sec	
4.	Core dia	Approximately 7X0.038mm	
5.	Impedance	50 Ohms	

Sl. No	Particulars	IPR Requirement	Vendor's Specification
	<b>ITEM-11</b>		
1.	Max Voltage	>1kV	
2.	Max Current	1 A	
3.	Vacuum level UHV	<1X10 <sup>-9</sup> mbar-l/sec	
4.	Core dia	Approximately 7X0.1 mm	
5.	Impedance	50 Ohms	

**Note:** The party should send a sample of the above mentioned cables along with their budgetary offer