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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  
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NEAR INDIRA BRIDGE, BHAT  
DIST. GANDHINAGAR - 382 428 (INDIA)  
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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/242  
Date : 26-03-2019

**Due on : 09-05-2019 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	Circulators 1 GHz to 2 GHz (Detailed specifications attached)	2.0 Nos.
2	Circulators 2 GHz to 4 GHz(Detailed specifications attached)	2.0 Nos.

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: As per attached.

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.

## Specifications

<b>Sr. No</b>	<b>Specification</b>	<b>IPR requirement</b>
<b>Item 1</b>	<b>circulators (1-2 GHz)</b>	
1	Operating frequency	1 GHz – 2GHz
2	Maximum Power	10 W
3	VSWR	1.15 or better
4	Isolation	17 dB or better
5	Insertion loss	0.8 dB or better
6	Connector type	SMA
7	Impedance	50 ohm
<b>Item 2</b>	<b>Circulators (2-4 GHz)</b>	
1	Operating frequency	2 GHz –4 GHz
2	Maximum Power	10 W
3	VSWR	1.15 or better
4	Isolation	17 dB or better
5	Insertion loss	0.8 dB or better
6	Connector type	SMA
7	Impedance	50 ohm

## Technical compliance sheet

Sr. No	Specification	IPR requirement	Vendor's specification
<b>Item 1</b>	<b>circulators (1-2 GHz)</b>		
1	Operating frequency	1 GHz – 2GHz	
2	Maximum Power	10 W	
3	VSWR	1.15 or better	
4	Isolation	17 dB or better	
5	Insertion loss	Less than 0.8 dB	
6	Connector type	SMA	
7	Impedance	50 ohm	
<b>Item 2</b>	<b>Circulators (2-4 GHz)</b>		
1	Operating frequency	2 GHz –4 GHz	
2	Maximum Power	10 W	
3	VSWR	1.15 or better	
4	Isolation	17 dB or better	
5	Insertion loss	Less than 0.8 dB	
6	Connector type	SMA	

**Bidder's Official Stamp and Sign:**

**Date:**



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### QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	RF cable SMA male to SMA male 2 meter (Detailed Specification attached)	5.0 Nos.
2	RF cable N type male to SMA male 2 meter (Detailed Specification attached)	5.0 Nos.
3	RF cable N type male to N type male 2 meter (Detailed Specification attached)	5.0 Nos.

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

Encl: TDS deduction.  
As per attached.

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 RF cables

Item 1	SMA-N male cable 2 meter	
Sr.no	IPR Specification	Value
1	Cable connector 1	SMA male
2	Cable connector 2	N- male
3	Length	2 meter
4	Operating frequency	DC to 18 GHz
5	Power handling	> 100 W @ 12 GHz
6	Inner conductor	Silver plated copper clad steel
7	Dielectric	PTFE
8	Shielding effectiveness	Better than 90 dB
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better
10	Impedance	50 $\Omega$
11	Type	Flexible
12	Datasheet	To be submitted with the quote
Item 2	SMA-SMA cable 2 meter	
1	Cable connector 1	SMA male
2	Cable connector 2	SMA male
3	Length	2 meter
4	Operating frequency	DC to 18 GHz
5	Power handling	> 100 W @ 12 GHz
6	Inner conductor	Silver plated copper clad steel
7	Dielectric	PTFE
8	Shielding effectiveness	Better than 90 dB
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better
10	Impedance	50 $\Omega$
11	Type	Flexible
12	Datasheet	To be submitted with the quote
Item 3	N-type cable 2 meter	
1	Cable connector 1	N male
2	Cable connector 2	N male
3	Length	15 ft or more
4	Operating frequency	2 meter
5	Power handling	> 500 W @ 1 GHz
6	Inner conductor	Silver plated copper clad steel
7	Dielectric	PTFE
8	Shielding effectiveness	Better than 90 dB
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better
10	Impedance	50 $\Omega$
11	Type	Flexible
12	Datasheet	To be submitted with the quote

Note: Cable test certificate should be submitted along with the cables. Cables will be accepted only after carrying out the basic tests at IPR.



## Technical compliance sheet

Item 1	SMA-N male cable 2 meter		Vendor's Specification
Sr.no	IPR Specification	Value	
1	Cable connector 1	SMA male	
2	Cable connector 2	N- male	
3	Length	2 meter	
4	Operating frequency	DC to 18 GHz	
5	Power handling	> 100 W @ 12 GHz	
6	Inner conductor	Silver plated copper clad steel	
7	Dielectric	PTFE	
8	Shielding effectiveness	Better than 90 dB	
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better	
10	Impedance	50 Ω	
11	Type	Flexible	
12	Datasheet	To be submitted with the quote	
Item 2	SMA-SMA cable 2 meter		
1	Cable connector 1	SMA male	
2	Cable connector 2	SMA male	
3	Length	2 meter	
4	Operating frequency	DC to 18 GHz	
5	Power handling	> 100 W @ 12 GHz	
6	Inner conductor	Silver plated copper clad steel	
7	Dielectric	PTFE	
8	Shielding effectiveness	Better than 90 dB	
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better	
10	Impedance	50 Ω	
11	Type	Flexible	
12	Datasheet	To be submitted with the quote	
Item 3	N-type cable 2 meter		
1	Cable connector 1	N male	
2	Cable connector 2	N male	
3	Length	15 ft or more	
4	Operating frequency	2 meter	
5	Power handling	> 500 W @ 1 GHz	
6	Inner conductor	Silver plated copper clad steel	
7	Dielectric	PTFE	
8	Shielding effectiveness	Better than 90 dB	
9	Insertion loss	1.5 dB typ @ 12-18 GHz or better	
10	Impedance	50 Ω	
11	Type	Flexible	
12	Datasheet	To be submitted with the quote	
Cable test certificate should be submitted along with the cables. Cables will be accepted only after carrying out the basic tests at IPR.			

**Bidder's Official Stamp and Sign:**

**Date:**