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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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दूरभाष: (079) 2396 2020/2021/2028  
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## ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/237  
Date : 25-03-2019

**Due on : 02-05-2019 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	Bi-directional couplers 12-18 GHz (detailed specifications attached)	2.0 Nos.
2	Circulators 12-18 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

Sr. No	Specification	IPR requirement
<b>Item 1</b>	<b>Bi-directional coupler (12-18 GHz)</b>	
1	Operating frequency	12 GHz – 8GHz
2	Coupling	20 dB
3	Directivity	15 dB minimum
4	Insertion loss	Less than 1.5 dB
5	Input power	1 W or more
6	VSWR	1.15 or better
7	Connection	SMA
8	Construction	Strip line
9	Frequency sensitivity	+/- 1 dB or better
10	Impedance	50 ohm

Sr. No	Specification	IPR requirement
<b>Item 2</b>	<b>circulators (12-18 GHz)</b>	
1	Operating frequency	12 GHz – 18GHz
2	Maximum Power	5 W or better
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

## Compliance sheet

Sr. No	Specification	IPR requirement	Vendor's specification
<b>Item 1</b>	<b>Bi-directional coupler (12-18 GHz)</b>		
1	Operating frequency	12 GHz – 8GHz	
2	Coupling	20 dB	
3	Directivity	15 dB minimum	
4	Insertion loss	Less than 1.5 dB	
5	Input power	1 W or more	
6	VSWR	1.15 or better	
7	Connection	SMA	
8	Construction	Strip line	
9	Frequency sensitivity	+/- 1 dB or better	
10	Impedance	50 ohm	

Sr. No	Specification	IPR requirement	Vendor's specification
<b>Item 2</b>	<b>circulators (12-18 GHz)</b>		
1	Operating frequency	12 GHz – 18GHz	
2	Maximum Power	5 W or better	
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	

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

**Date:**