

# INSTITUTE FOR PLASMA RESEARCH

An Aided institute of department of Atomic Energy, Govt. of India)  
Near Indira Bridge, Bhat. DIST.GANDHINAGAR - 382 428 (INDIA)

PHONE :(079-2396 2000),FAX :91-079-23962277

Web : www.ipr.res.in

## MINOR FABRICATION WORKS ENQUIRY

Office Copy

ENQUIRY NO :IPR/MFW/21-22/113

Date : 14-10-2021

Due Date : 03-11-2021 13:00 IST

Please send your offer in sealed envelope specifying Inquiry No, Date & Due Date, ALONG WITH your credentials for the following items:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to [rkumar@ipr.res.in](mailto:rkumar@ipr.res.in)

Please Ensure that your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following document properly before Quoting which are available on the IPR web portal i.e., <http://www.ipr.res.in/documents/tenders.html/> attached here with.

1. Technical specification as enclosed.
2. Instruction to the bidders & terms and Condition (refer Form NO:IPR-MFW-01-V1)
3. Bidding format(refer Biddingformat MFW-Bid.pdf)

GST fro Goods and Services (IGST/CGST/SGST TAX BENEFITS): PLEASE REFER clause no:8 of Form No:IPR-MFW-01-V1

QUOTATION SHOULD BE ADDRESSED TO **RAJESH KUMAR** ONLY.

Sr.No.	Description	Quantity	Rate
1	Minor fabrication works for the fabrication of dual ridged horn antenna as per the attached specifications.	2	No.

### Free Issue Material

Sr.No.	Description	Quantity	Unit	Value
--------	-------------	----------	------	-------

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

Encl:As per attachment

*Rajesh Kumar*  
14.10.21

**Specifications:**

1	Antenna type	Dual ridged horn antenna
2	Frequency Range	1 GHz to 18 GHz
3	VSWR	<1.75 : 1(Typically)
4	Maximum Continuous Power	200 Watts
5	Peak Power(designed)	400 Watts
6	Impedance	50 $\Omega$
7	Connector Type	Type N precision, female
8	Front to Back Ratio	22 dB
9	Cross Polarization	23dB minimum
10	Gain in dBi	3 – 12 (for the entire range)
11	Test certificate format	<ul style="list-style-type: none"> <li>• Gain vs frequency plot</li> <li>• Radiation pattern of Wide Band Double Ridge Horn Antenna</li> <li>• Measurement Graph of Antenna Return loss vs Frequency</li> <li>• Measurement Graph of Antenna VSWR vs Frequency</li> <li>• Basic dimension check</li> </ul>
12	Factory acceptance test	<p>IPR representatives will visit the factory site during the testing of antenna. Only after the pre-dispatch clearance the antenna can be shipped to IPR.</p> <p>The vendor should conduct all the tests mentioned in test certificate format if an appropriate test facility with suitable equipments.</p> <p>In case the vendor does not have such facility/equipment, they should arrange the testing in some other facility.</p> <p>The vendor should quote the price inclusive of the testing charges.</p>
13	Site acceptance	IPR will conduct all the possible tests conducted in the vendors site/hired site with the available facility and equipments at IPR

**Note:**

1. The antenna type should be Dual ridge horn antenna only.
2. The design, preparation of the fabrication drawing, dimensional sensitivity, performance testing are in the scope of supplier only.
3. IPR will check the performance of the fabricated antenna as per the specification and will accept the antenna.