

Sub: Requirement of LNA

There is a requirement for an LNA with specifications mentioned below, for a high-frequency characterisation setup.

The Budgetary Quotation by the Interested firms, can be submitted through e-mail to the undersigned (np@csio.res.in) on or before 18.05.2025, 1 PM. The Budgetary

Quote must be submitted along with the Authorisation certificate of the original manufacturer.

Other Terms & Conditions:

1. Delivery: F.O.R. CSIO Chandigarh
2. Payment Terms: Within 30 days after delivery

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S.No.	PARAMETER	SPECIFICATION
1.	Frequency Range	140 GHz to 220 GHz
2.	Gain	≥ 20 dB
3.	Noise Figure	≤ 7 dB across the band
4.	Input Return Loss	≥ 10 dB
5.	Output Return Loss	≥ 10 dB
6.	Gain Flatness	$\leq \pm 2$ dB over full bandwidth
7.	Output P1dB	≥ 0 dBm
8.	Saturation Power	≥ 3 dBm
9.	Impedance	50 ohm nominal
10.	Input/Output Interface	WR-5.1 waveguide
11.	Mounting	Table-top or probe-compatible module

12.	DC Supply Voltage	+5V or +8V DC
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- The vendor must supply a complete test report, including measured S-parameters and noise figure data.
 - Integration support with VNA extender systems extender) must be provided
 - The amplifier should be ready-to-use, with no external tuning required.