



Department of Physics

Indian Institute of Science, Bangalore.

Request for Quotation for a CW RF Signal Generator from domestic (India-based) manufacturers

Enquiry ID: PH/AGH/501/2021-22

Last date of submission of quotation via email: **5 pm, 26th September 2021**

This is a request for quotation from **domestic (India-based) manufacturers** for a CW RF Signal Generator. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc.

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 04th June 2020, will be followed.

Per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%".

A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%".

Only 'Class-I' and 'Class-II' local suppliers are eligible to participate in this open domestic tender. Any 'Non-local supplier', i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or



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“No” response against each of the items in the specifications listed below. If “No” the second column should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the technical bid. Bids with no statement of compliance will be considered invalid.

General Terms and Conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
3. The offer shall be valid for at-least 90 days from the date of submission of the commercial bid.
4. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
5. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the technical bid. Details of vendor registration can be sought by sending an email to rajeshwari@iisc.ac.in
6. The covering letter in the bid should clearly mention whether the vendor is a ‘Class I’ local supplier or a ‘Class II’ local supplier, failing which the vendor will be automatically disqualified.
7. The vendor should indicate the percentage of the local content and provide self-certification that the items offered meet the minimum local content requirement. They should also give details of the location(s) at which the local value addition is made.
8. The price of each optional item should be quoted separately. The quotation should be on FOR IISc Bangalore basis.
9. The quotation should be addressed to The Chairman, Department of Physics, Indian Institute of Science, Bangalore and submitted to Prof. Arindam Ghosh at arindam@iisc.ac.in before the deadline. The



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quotation should strictly mention the enquiry ID that it is responding to.

Technical specification for the desired CW RF Signal Generator:

S.No.	Parameter	Required specification
1	Frequency range	9kHz to 20GHz
2	Resolution of setting	0.001 Hz
3	Frequency sweep modes	List, Sweep
4	Sweep points	2 to 65535 (step sweep)
		1 to 3201 (list sweep)
5	Dwell time for sweep point	100 μ s to 100s
6	Aging rate	Roughly $\pm 1 \times 10^{-7}$ /year
7	Output connector	3.5 mm female, 50 Ω
8	Output Level	9 kHz to 13 GHz: -20 to +18dBm
		> 13 GHz to 20 GHz: -20 to +15dBm
9	Phase noise @ 20KHz offset	≤ -90 dBc/Hz (for complete frequency range)
10	Harmonics	< -33 dBc, CW mode at +10 dBm
11	Dual Power Meter Display	Able to display the current frequency and power of either one or two USB power sensors in the larger center display
12	Automation Software	Controlling the Key parameters of signal generator like Frequency, amplitude and sweep using automation software.
13	Operating temperature range	At least between 0 and 55 degree Celsius
14	Interface	Remote interfacing using GPIB, USB and LAN
15	Warranty	At least 1 year