

Tender Notification for the procurement of an Arbitrary Waveform Generator (AWG)

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Dear Sir/Madam,

Kindly send the lowest quotation for the following item on C.I.P. Bangalore basis. The quotation should clearly indicate the terms of delivery, delivery schedule, transportation charges, if any, payment terms etc. The general terms and conditions are given in the last section below.

Technical specification of the Arbitrary Waveform Generator (AWG)

Technical specification of the Arbitrary Waveform Generator. All the specifications assume a 50 Ohm load, and port impedance, unless explicitly stated.

S. No.	Technical Specification	Value
1.	Sampling Rate	At least 2.4 GSPS
2.	Number of Analog Channels	4
3.	Trigger Input	1 per channel
4.	Analog Bandwidth	At least 750 MHz
5.	Record Length	At least 64 M Samples per channel
6.	DAC Resolution	16-bit
7.	Coupling of channels	AC and DC, switchable
8.	Marker outputs per Analog Channel	At least 1 Marker output per channel
9.	Amplitude Range (50 Ohm load)	1.5 V Peak-to-peak or more
10.	Amplitude Resolution	0.1 mV
11.	Amplitude Accuracy	±2% of setting ≥ 100 mV p-p
12.	Rise/Fall time	<500 ps for 0.2 V step
13.	Amplitude Offset Range	± 750 mV or more
14.	SFDR (10 MHz – 500 MHz)	-80 dBc or better
15.	Worst Harmonics	-57 dBc or better (within the amplitude specification listed above)
16.	Marker Jitter	60 ps or better
17.	Run Modes	Continuous, Triggered, Gated
18.	Sampling Clock resolution	At least 7 digits
19.	Trigger to Output delay	3.6 micro-second
20.	Output Skew Control Range	200 ps
21.	Output Skew resolutions	25ps
22.	10 MHz reference	SMA, 50 Ohm
23.	Ability to synchronise multiple units	Yes (include the maximum number of channels that can be synchronised in the technical document)

	Optional items:	
1.	Real time pre compensation for pulses	
2.	Memory upgrade up to 500 MSa per channel (if not available on the standard unit)	

General terms and conditions:

1. After the award of the Purchase Order (PO), the vendor must provide an Order Acknowledgement within 14 days from the receipt of the PO.
2. The lead time for the delivery of the equipment should not be more than 8 weeks after establishing the payment mode. The delivery time should be mentioned in the technical and commercial bids.
3. Payment terms should be mentioned in the technical bid.
4. The purchase of optional items is subject to budgetary constraints.
5. The commercial bid and technical bids must be submitted in two separate envelopes. A technical bid must contain a point-by-point technical compliance document. The technical bid must not contain any price information.
6. IISc is registered with DSIR for availing custom duty exemption (CDE) for import orders and GST exemption (for INR orders in India). IGST is NIL for import order for IISc. Bidders should consider all these facts while submitting their bid. For import order, the Bill of Entry must be in the name of IISc for availing CDE. GST exemption certificate will be provided subject to the submission of the proforma invoice.
7. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time before the award of contract without thereby incurring any liability of the affected bidder or bidders.

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Vibhor Singh,
Assistant Professor,
Department of Physics,
Indian Institute of Science Bangalore-560012