



**College of Engineering Pune**  
(An autonomous Institute of Govt. of Maharashtra)  
Shivajinagar, Pune - 411005.  
**Department of Electronics and Telecommunication**

Reference No: COEP/E&TC/Function Generator /2017-18/ 66

Date: 12.2.2018

**Enquiry Letter**

**Subject :** Inviting quotations for Supply and installation of " 3 MHz Signal Generator with Modulation " at College of Engineering Pune.

Sealed quotations are invited from reputed organizations for supply of " 3 MHz Signal Generator with Modulation " at College of Engineering Pune as per the Annexure- I.

**Terms and Conditions:**

1. **Execution Period:** 4 weeks from the release of purchase order.

2. **Supply and Installation:**

Supplier shall be responsible for successful Installation and testing of 3 MHz Signal Generator with Modulation " at College of Engineering Pune. Any defective component will be replaced by supplier at his cost.

3. **Service Support:** Comprehensive Support (parts, labor) has to be provided for a minimum period of 3 years by the supplier from date of installation and Testing of equipment.

4. **Comprehensive Warranty:**

Three years Comprehensive Warranty for Supplied items from the supplier with replacement. The Supplier shall be fully responsible for the Manufacturer's warranty for all equipment, accessories, spare parts etc. against any defects arising from material, manufacturing, workmanship, or any act or omission of the manufacturer / supplier or any defect that may develop under normal use of supplied equipment during the warranty period. In case the supplier is unable to fulfill his obligations during the warranty period, the warranty obligations will fully and automatically devolve upon the Manufacturer of the goods. The supplier shall be fully responsible for getting the product replaced from the principal company or coordinating the same with the principal company during the warranty period.

5. **Payment Terms & Conditions:**

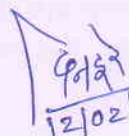
**Payment:** 90% payment shall be made at the earliest towards supply of equipment on the delivery of item in good condition in stores of College of Engineering Pune and remaining 10% after its successful installation and testing of " 3 MHz Signal Generator with Modulation " at College of Engineering Pune as notified by the purchaser.

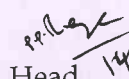
6. The supplier shall have to quote for all the items of the quotation. Part Quotations/incomplete Quotations shall be summarily rejected. Prices quoted should be

inclusive of all taxes/levies.

7. Offers in Quotation should be written in English and price should be written in both figures and words.
  8. Please specify the make and model of the item.
  9. Quotation(s) received after last date of Quotation submission will be rejected.
  10. The institute reserves the right to select or reject the offer of the supplier .
  11. The Institute reserves the rights to split the purchase order.
  12. The Institute reserves the rights to cancel any of the items of quotation without any reason thereof.
  13. The Institute reserves the rights to decide the quantity of any of the items of quotation for finalizing the purchase order without any reason.
  14. The Institute reserves the right to cancel purchase order, before or after the delivery of material before making payments, without giving any reasons thereof.
1. The last date for submission of Quotation is **27.2.2018 before 15.30 Hours**. Quotations received beyond the submission date / time will not be accepted and will be rejected, unopened.
  2. Quotations will be opened on **27.2.2018 at 16.00 Hours** at Dept. of E&TC ,College of Engineering Pune in presence of the supplier's representatives who wish to attend. In the event of any change in the date of opening, the same will be intimated to all.
  3. The Vendor shall seal the quotation in an envelope addressed to: Director, College of Engineering Pune. The envelope will also bear the following identification:-  
"Quotation for Supply and installation of **3 MHz Signal Generator with Modulation** at College of Engineering Pune."
  4. Quotation must be received in the Office of College of Engineering Pune.

  
14/2/18  
(P.P. Bastakke)

  
12/02/18  
(Niturze Deepakmi V.)

  
Head, 14/2/18  
Electronics & Telecommunication Department,  
College of Engineering Pune

### Annexure- I

**Format for Quotation for Supply and installation of Power Supply - 3 MHz Signal Generator with Modulation at Dept. of E&TC , College of Engineering Pune.**

Sr. No.	Item with specifications	Qty in Nos.	Basic in Rs. (Exclusive of all Taxes)	Total Amount in Rs. (Exclusive of all Taxes)
1.	<p><b>3 MHz Signal Generator with Modulation</b></p> <ul style="list-style-type: none"> <li>• Output Waveform: Sine, Triangle, Square, Ramp, Pulse, AM Balance, AM Standard, FM, ASK, FSK, PWM Sweep and DC.</li> <li>• Output Level: 20Vp-p in Open Circuit, 10Vp-p in 50W Load.</li> <li>• Output Attenuator: 40dB <math>\pm</math> 1dB and 20dB continuously variable.</li> <li>• DC Offset: <math>\pm</math>10V (DC <math>\pm</math> AC peak) into Open Circuit. <math>\pm</math>5V (DC <math>\pm</math> AC peak) into 50W Load.</li> <li>• Range: 0.03Hz to 3MHz</li> <li>• Indication Accuracy: <math>\pm</math>0.1%.</li> <li>• Square Rise &amp; Fall Time: &lt;50ns.</li> <li>• Symmetry / Duty Cycle: 15% to 85% variable.</li> <li>• Triangle wave Non-Linearity: <math>\pm</math>0.5% (typically at 1 KHz).</li> <li>• Sinewave Distortion: &lt;1%</li> <li>• Amplitude Flatness: <math>\pm</math>2%</li> <li>• Sweep Type: Linear</li> <li>• Sweep Range: 25: 1</li> <li>• Sweep Rate: 20msec to 4sec variable.</li> <li>• Modulation Characteristics: Auxiliary Function Generator for Int. Modulation: Waveforms: Sine, Square, Triangle, Frequency Range: 2Hz to 20KHz, Output Level 10Vp-p.</li> <li>• Amplitude Modulation: Carrier Freq. B.W.: Upto 1MHz, Int. Mod. Freq.: 2 Hz to 20 KHz, Int. Mod. Index: 30% to 100%, Ext Modulation 100% for 2Vp-p. Ext. Mod. Freq. DC to 20KHz</li> <li>• Frequency Modulation: Deviation: 0 to 10% of the range, Ext Modulation: 10% for 2Vp-p, Ext. Mod. Freq. DC to 20KHz</li> <li>• Frequency Counter: Display: 4 Digits Display, Freq. Range: 0.3Hz to 3MHz, Display Accuracy: <math>\pm</math>0.1% +1 Digit.</li> <li>• Power Supply: 230V<math>\pm</math>10%, 50Hz.</li> <li>• Accessories: BNC Alligator Clip., mains Cord</li> </ul> <p><b>Warranty: minimum 3 Years</b></p>	06		