



# GOVERNMENT POLYTECHNIC, AURANGABAD.

(An autonomous institute of govt. of Maharashtra )  
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No. : GP A /Store /2018-19/1187 Date:07 MAR 2019

## INVITATION FOR QUOTATION (ETC DEPT.)

**Sub: Quotation for purchase of AM/FM RADIO RECEIVER (Due Date 15/03/2019)**

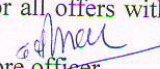
Sealed Quotations are from eligible and interested manufacturers/ dealers/distributors/ for the following items on the terms and conditions mentioned below.

Sr. No.	Name of the item with required specification	Approx qty required
1.	AM/FM RADIO RECEIVER TRAINER	01
2		

- Quantity of above equipment's will be purchased as per availability of funds and all purchase process may be cancelled if funds will not be received by the head office.

### TERMS AND CONDITIONS

- Covering Letter for tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address.
- GST registration certificate/ Number
- Authorization/ Distributorship certificate from manufacturer. Proof of permission to manufacture the equipment/ item mentioned in the quotation from competent authorities (to be submitted if the bidder is not a manufacturer).
- Technical literature / leaflet of the make and model no of equipment quoted.
  - Additional document may also be asked by undersigned for confirming the details.
- heading "**Quotation for supply of AM/FM RADIO RECEIVER TRAINER** " and write complete address of the undersigned.
- The quotations should reach the undersigned on or before 15/03/2019 at 5:30 pm.**
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced.
- Rates should be valid for 6 months from the date of confirmation letter.
- Materials should be quoted for standard makes and minimum pkgs. Delivery to the consignee has to be effected within 4 weeks from the date of issue of purchase order. Payment will be released after delivery, successful installation and working trial at the concerned department of this Institute. Advance payments will not be done.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.

  
Store officer

**Government Polytechnic, Aurangabad.**

## SPECIFICATIONS

### AM RADIO RECIEVER

- Frequency range :400KHz ~ 1.5MHz
- Intermediate frequency :455KHz
- Inputs :RF signal
- Output IF frequency :455KHz adjustable
- IF filter : Dual tune LC
- RF amplifier with variable gain
- Mixer (frequency converter)

#### Local oscillator

- Output Signal :Shin wave
- Frequency range : 400KHz ~ 1.5MHz
- Amplitude :Adjustable from 0Vpp~ 2Vpp
- Output impedance :50 Ohm

#### 1st and 2nd IF amplifier

Central frequency :455KHz  
Load impedance : Variable R-L-C  
Gain :40db with automatic gain control

### FM RADIO RECEIVER

- Reception range :88MHz ~ 108MHz with continuous tuning
- Tuning circuit :Using GANA capacitor
- Intermediate frequency :10.7 MHz with ceramic filter
- FM detection output level :77.5Vrms (typical)
- FM detection output distortion factor : 0.3% (typical)
- Audio amplifier :Gain up to 46Db
- Receiving media :Adjustable telescopic antenna
- Power supply :-12V,+12V,+5V,GND
- Output volume regulation, output load impedance of 8 ohm

## EXPERIMENTS

### FM radio receiver

- To study AM radio receiver & To study of image frequencies for AM

### AM radio receiver

- To study FM radio receiver & To measure the frequency response of Audio amplifier

