

GOVERNMENT POLYTECHNIC, YAVATMAL.

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QUOTATION

No.GPY/CS/INST PUR /QUOTATION/2017-18/346
Dt. 29 /01/2018.

Sub: Quotation for purchase of equipments. (Due Date: 8 /02/2018)

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 specification	Quantity required	Estimated cost
1.	LIST ATTACHED HERE WITH		

TERMS AND CONDITIONS

- The bid/quotation should be submitted in two bid format.
- The first envelope will contain Technical specifications of the product, technical literature/ leaflet and other documents mentioned below.
 - Covering Letter for Quotation on the company letter head mentioning official address,Contact No.
 - e Mail address and website (if available) address
 - Certificate from competent authorities, if exemption is claimed.
 - GST registration certificate/ Number
 - GST Clearance Certificate/ GST Challan for last quarter of the financial year.
 - 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.
- The second envelope will contain the financial bid in which the all inclusive rates F.O.R. Destination will be written and signed with the stamp of the establishment in the following format.

Sr. No.	Name of the item with specification	Quantity required	All inclusive cost per unit	All inclusive cost for quantity mentioned.
1.	LIST ATTACHED HERE WITH			

Date : 29 /01/2018

Place :Yavatmal.

(Signature)

(N. N. Shende)

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- The two envelopes should be sealed with a mention of the type of envelope (technical/ Financial), Reference no., Date of opening the quotation on the front side of the envelope. These two envelopes should be sealed in a third envelope by giving heading "Quotation for supply of ELCTRONICS LAB EQUIPMENTS" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before dt. 8 /02/2018.
- The material will be checked at this institute.
- No extra charges will be paid for cartage, packing etc. for the material rejected and replaced
- Quotations will be opened at 9/02/2018 at: 11.00 AM on dt. 9/02/2018.
- 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 4weeks from the date of issue of purchase order.
- The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.


(N. N. Shende)

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- Copy to**
1. The Director, Directorate of Technical Education, 3Mahapalika Marge, M.S. Mumbai.
Please publish the enquiry of above item on your website.
 2. The Joined Director, Technical Department, Regional Office, Gadge Nagar, Amravati.
Please publish the enquiry of above item on your website.
 - ✓ 3. Programmer, Govt. Polytechnic Yavatmal .Publish the enquiry of above item on the Institute website.
 4. Notice board Main building Govt. Polytechnic, Yavatmal.

LIST OF ELECTRONICS LAB EQUIPMENTS.

Sr. No.	Name of the equipment	Specification	Quantity Required	Estimated Cost Per No.
1	Trainer kit for R and RC triggering circuits on firing angle of SCR.	Different fixed resistance or different firing angles of SCR for R and RC triggering. On board power supply. Manual with all circuit detail and specifications	01	2000
2	Trainer kit for the effect of variation of R on firing angle in synchronized UJT triggering circuit	SCR - On board power supply. Manual with all circuit detail and specifications	01	2000
3	Trainer kit for transfer and output characteristics of Insulated - Gate Bipolar Transistor (IGBT).	- On board analog voltmeter & Ammeter as per circuit requirement. - On board power supply. - On board variable voltages for gate and Anode to Cathode Voltage. - Manual with all circuit detail and specifications	01	2000
4	Trainer kit for output characteristics of power transistor.	- On board analog voltmeter & Ammeter as per circuit requirement. - On board power supply. Manual with all circuit detail and specifications	01	2000
5	Trainer kit for Study of Chopper (step up and step down) using SCR.	- On board power supply. - Manual with all circuit detail and specifications	01	3000
6	Trainer kit for Study of current commutated Chopper step down Chopper using SCR	- On board power supply. - Manual with all circuit detail and specifications	02	2000
7	Trainer kit for the speed control of DC series motor using SCR PHASE CONTROL AND Plot speed Vs armature voltage characteristic	- Provided variable resistance for different firing angle of SCR. - On board voltmeter for measuring the armature voltage. - On board power supply. - Manual with all circuit detail and specifications	02	2500
8	Trainer kit for V-I characteristics of SCR.	On board meter for measurement of Gate current, Gate Voltage, Anode to Cathode Voltage and Anode current .	02	2000
9	Trainer kit for Single phase full wave controlled rectifier (centre tapped) with resistive load and inductive load with and without freewheeling diode.	- Circuit is midpoint converter. - Facility to be provided to observe half wave controlled rectifier output voltage waveform. - On board figuring circuit for controlled rectifier to provide different firing angles. - On board power supply. - Manual with all circuit detail and specifications	02	3000
10	Trainer kit for Single phase full wave controlled Bridge rectifier (Fully controlled as well as halfly controlled) with resistive load and inductive load with and without freewheeling diode.	- On board figuring circuit for controlled rectifier to provide different firing angles. - On board power supply. - Manual with all circuit detail and specifications	02	2500
11	Trainer kit for Study of the effect of firing angle on output voltage in DIAC - TRIAC phase control circuit.	On board power supply. - Manual with all circuit detail and specifications	02	2000
12	Study of strain gauge trainer	To study strain measurement using strain gauge & cantilever assembly. To determine linear range operation of strain measurement Build in DC power supply 3½ digit LED display Onboard cantilever arrangement Provide test point for measurement of voltage of whetstone bridge with different weight from 0 Kg to 20 Kg	02	3000

13	Study of Temperature Transducer trainer kit	<p>Characteristics of NTC Thermostat</p> <p>Characteristics of Platinum RTD (pt-100)</p> <p>Characteristics of K type Thermocouple</p> <p>Build in power supply</p> <p>Student should measure resistance of RTD by varying temperature of RTD</p> <p>Provide electronic heater with pot to measure the temperature with the help of thermometer.</p> <p>Provide thermometer (o to The mister 150C) RTD-3000C Manual should provide the circuit details</p> <ul style="list-style-type: none"> - Patch cords as per circuit diagram. - Fully documented manual Characteristics R-type thermal of detailed circuit specification - Functional block indicated on board <p>Provide necessary voltmeter and ammeter.</p>	02	2500
14	Pressure measurement using diaphragm type pressure gauge. Along with Diaphragm & Bellows	0-6 Kg/Cm ² Pressure range tank with bourdon type compressor	02	3000
15	Trainer kit kit for wine bridge oscillator.	For different combinations of R & C. for different frequency range.	02	2000
16	Study of FET characteristic trainer kit	Should evaluate AC drain resistance Trans conductor, Amplification factor DC drain resistance. On board power supply On board ammeter & voltmeter as per characteristics requirement. Manual with detailed circuit diagram.	02	2000
17	Trainer of BJT amplifier & emitter follower	BJT amplifier having CE configuration. On board power supply. Small signal AC voltage with different frequency to the input. On board AC voltmeter for measuring input voltage of Amplifier and another voltmeter for measuring output of amplifier. Circuit should provide amplification & frequency response of the above amplifier.	02	2000
18	Water level measurement Trainer Kit	<ul style="list-style-type: none"> - Precise signal conditioning with different test point. - Manual should consist of details ckt. Specification & procedure for performing experiment. - With 4 to 20 is current o/p 0-300 mm height of level tank. With 230 v power Supply. 	02	2000
19	Transistor Characteristics Trainer	<ol style="list-style-type: none"> 1) Study of the characteristics of PNP transistor in common base configuration and to evaluate input resistance, output resistance and current gain 2) Study of the characteristics of PNP transistor in common emitter configuration and to evaluate input resistance, output resistance and current gain 3) Study of the characteristics of NPN transistor in common base configuration and to evaluate input resistance, output resistance and current gain 4) Study of the characteristics of NPN transistor in common emitter configuration and to evaluate input resistance, output resistance and current gain 5) Study of the characteristics of NPN transistor in common collector configuration and to evaluate input resistance, output resistance and current gain <ul style="list-style-type: none"> - In built power supply; in built digital display for the measurement if DC input & output voltage & current. - Circuit manual with neat circuit diagram, procedure for the respective experiment. 	02	2000

20	Microcontroller trainer Kits.	1) CPU: 8031/8051 operating at 11.0592 MHz 2) Memory: EPROM 1: 32K bytes with monitor software. EPROM 2: Optional 32K ROM RAM 1 : 32K data RAM RAM 2: 32K program/data RAM 3) I/O Parallel : 48 I/O lines using two 8255 4) I/O Serial: One RS 232 compatible interface. 5) Timer: Three 16 bit counter timer using 8253 6) Keyboard: Consisting of 28 numbers of computer Grade keys. 7) Display: Six numbers of seven segment displays. 8) Monitor software: 32Kb of powerful user friendly monitor software with keyboard & serial 9) Bus Signals: Bus signals terminated in burg strip. Controller specific lines like port 1 lines, TO, TI, INTO, INTI, etc. Terminated in a burg stick header. 10) Power supply: Built in DC regulated power supply. Kit operate on 230 V, 50 Hz AC supply	02	6000
21	D.C. Power supply	1) O/P voltage - 0 to 30 Volt, 2A in 3 range in both power supply channel 2) Display - 3 1/2 digit 3) Load regulation - 0.5 % + 10mv, no load full load for each channel 4) Line regulation - 0.05 % + 15 mv for +1- Variation around 230 volt 5) O/P imp - 15 milliohms 6) Ripple -less than 1mv rms. 7) I/P supply - 230 V +1- 10 % 50 Hz.	04	3000
22	Trainer kit for Study of Battery charger using SCR.	To observe change in charging voltage and current provide on board meters. On board power supply. Manual with all circuit detail and specifications	02	4000
23	Trainer kit for verifying the characteristics of LDR/Photo diode and photo	Transistor. For LDR Light intensity Vs Resistance, For Photodiode intensity of source Vs Photocurrent. For transistor $V_r/V_{s/c}$ On board power supply , meters for measurements of currents and voltages, Light source with provision for maintaining dark current and variable intensity of source. On board meters for measurements of currents and voltages, Manual with all circuit detail and specifications & patch cord	02	4000
24	Trainer kit for Culprit Oscillator	It should consist of different pair of capacitor or range capacitor for different frequency.	02	2000
25	Trainer Kit implement R-2R D/A Converter	Provide different combination 8 digital input. Provide voltmeter to measure output of the circuit. Manual with all circuit details and specifications & patch cords	02	2000
26	Trainer Kit to Verify Truth table of BCD to 7	-Segment Decoder using IC 7447 or IC 7448 Manual with all circuit details and specifications & patch cords	02	2000
27	Trainer kit for Switching characteristics of BJT	on board voltmeter and ammeter ,power supply	02	2500
28	Trainer kit for Switching characteristics of MOSFET.	on board voltmeter and ammeter ,power supply with operating manual	02	2500
29	Trainer kit for V-I characteristics of UJT	On board voltmeter and ammeter, power supply with operating manual.	02	2500
30	Trainer kit for Frequency	Response of single stage common emitter amplifier, to determine gain and BW. Facility for different gain. With operating manual.	02	2500
31	Trainer kit for Frequency	Response of two stages RC coupled amplifier using BJT. Facility for different gain	02	2500
32	Trainer kit for Frequency	Response of single tuned amplifier of BJT& determine tuned frequency and bandwidth. Facility for different gain	02	2500

33	Trainer kit for Frequency	Response and BW of amplifier without & with negative voltage series feedback Amplifier is the CE	02	2500
34	Trainer kit for Draw	Input and output wave forms of class B push pull amplifier and determine efficiency. On board wave from generator with different voltage & frequency to give input to amplifier. With operating manual.	02	2500
35	Trainer kit for Determine	Frequency of saw tooth oscillator using UJT at different combination of R-C combination and verify with actual value.	02	2500
36	Trainer kit for Determine T-on, T-off.	Duty cycle of Miller's sweep generator	02	2500
37	Trainer Kit to Measure pressure using Bourdon tube pressure gauge	Pressure measurement using diaphragm type pressure gauge Along with Diaphragm 0-6 Kg/Cm ² Pressure range tank with bourdon type compressor	02	2000
44	Trainer Kit to Calibrate pressure gauge using Dead weight pressure gauge	Bored piston cylinder with hand heel arrangement. Pressure range of 0 to 6kg/cm ² with standard weight of 0.5kg, 1kg, 2kg, 5kg with dial gauge of 0 to 6kg/cm ²	02	2000
45	Trainer Kit to Determine the rate of flow of liquid in pipe using Rota meter.	Rota meter with 0 - 1000lph flow range. With pipeline with manual values pump 2kw, 240 kAC Reservoir of 15lit water	02	2000
46	Trainer Kit to Calculate flow through pipe using orifice meter	Rota meter with 0 - 1000lph flow range. With pipeline with manual values pump 2kw, 240 kAC Reservoir of 15lit water. With orifice plate & man metric differential pressure indication.	02	2000

W. M. M. D.

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