



No.GCOEARA/Store/2017-18/ 466

Date: 1 JAN 2018

Tender Fee Re.-1000/- ( By DD only )**QUOTATION**Sub: Quotation for purchase of equipment.( for E & TC Engineering)  
( Due Date 08.02.2018)

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	<b>Smart LED Television Trainer</b> <b>LED TV Trainer Technical Specifications (HD LED Television)</b> <ul style="list-style-type: none"><li>operating principle of LED TV</li><li>Functions of front panel controls/ keys of LED TV</li><li>Functions of controls on Remote</li><li>Circuit description and functions of different sections</li><li>Observation of waveforms/signals of different sections</li><li>Measurement of voltages of different sections</li><li>Switch faults and troubleshooting in different sections</li></ul> Display Type : LED, HD, Screen Size: 20 Inch (50cm) Display Resolution: 1600 X 900 Pixels Contrast Ratio: Mega Contrast Ratio Display Color: 16.7 Million Display Colors Viewing Angle : 170 (H) X 170 (V) Refresh Rate: 50 Hz, Video Interface: Video Input/ VGA input Audio Interface: RCA L & R Audio Output Power : 8W X 2 Receiving System: PAL BG/I/DK and NTSC Channel Coverage: VHF-2-12; UHF21-69; CATV, Unbalanced Application: Color Television/ PC Monitor. Connectivity USB : 1 X USB 2.0 (MPEG, JPEG, MP3). HDMI: Yes (1 X HDMI) Other Connectivity : RF In, AV In., VGA In, VGA Audio In, AV out Composite A/V : Yes Component Video : Yes Analog Audio : Yes Test Points , Switched Faults	1	71500
2	<b>ARM (LPC 2148) Development Board with Ucos II RTOS Support:ADC: <u>32 Bit Microcontroller based Development Boards.</u></b> <b>ARM7 core based LPC2148 Development Board with Graphics LCD Display Interface:</b> <ul style="list-style-type: none"><li>Based on the LPC2148 (ARM7 core) microcontroller from NXP running @72 MHz</li><li>On board 16x2 Character LCD.</li><li>Two Multiplexed Seven Segment Displays</li><li>Eight general purpose LED's</li><li>16 key matrix keypad arranged in 4x4 matrix.</li><li>SD Card over SPI</li><li>Stepper Motor and DC Motor interface with L293 Driver</li><li>On Board I2C based EEPROM</li><li>On Chip RTC with CMOS Battery power backup</li><li>UART with on board USB-Serial converter for PC Connectivity</li><li>UART with RS232 transceiver and DB9 connector</li><li>On Board LM35 Temperature sensor input ,</li><li>On-board Zigbee(XBEE) module connector.</li></ul>	2	23500

	<ul style="list-style-type: none"> <li>• Relay with terminal connector,</li> <li>• Tactile Switch for generating external interrupt event.</li> <li>• Reset switch and Power Switch.</li> <li>• Two on chip ADC Channels interfaced to adjustable voltage sources</li> <li>• On Chip DAC output on connector</li> <li>• Buzzer connected to GPIO pin.</li> <li>• On chip USB Device connected to USB-B connector.</li> <li>• Port P0 and P1 Pins on FRC Connectors</li> <li>• Dual Power selection : USB or 12V SMPS</li> <li>• Standard 20 pin JTAG interface connector.</li> </ul>		
	128x64 Graphical LCD		
3	<p><b>DSP (TMS320C6748) Board</b></p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• TMS320C6748 micro controller (200MIPS/180MHz) based on ARM926EJ-S core.</li> <li>• DDR-II SDRAM - 128MB, 16 bit</li> <li>• NAND FLASH - 4Gb, 16 bit</li> <li>• Stereo Audio CODEC - Audio In, Audio Out, MIC In</li> <li>• Video Decoder</li> <li>• VGA Out</li> <li>• USB to Serial Interface</li> <li>• DIP Switch</li> <li>• Status LED's</li> <li>• 10/100 Mbps Ethernet with RJ45 Jack</li> <li>• One USB HOST</li> <li>• One USB OTG</li> <li>• Micro SD/MMC Connector</li> <li>• SATA Connector</li> <li>• 14 Pin JTAG Header</li> <li>• Expansion Header</li> <li>• Reset Push Button</li> <li>• Power Management 5V/1.5A Power Supply Adapter</li> <li>• Dimension - 180 x 155 mm, JTAG Emulator</li> </ul>	1	35000
4	<p><b>4) Raspberry pi3 development Board with</b></p> <p>Specifications:-Micro USB power Source, USB cable, Micro SD Card * GB With Respian OS Loaded, Lan Cable, HDMI To VGA converter, With cameramodule interface to Raspberry Pi3.</p>	4	40000
5	<p><b>DC Series and DC shunt motor work Bench</b></p> <p>(Only Panel without MOTOR), Technical Specifications, Electrical Measuring Instruments, AC Ammeter (4 Nos.), Type : Digital Range : 10A, AC Voltmeter (4 Nos.), Type : Digital Range : 450V, DC Ammeter (4 Nos.), Type : Digital Range : 30A, DC Voltmeter (4 Nos.), Type : Digital Range : 300V, Single Phase Wattmeter (2 Nos.), Type : Digital Range : 2.5kW, DC Supply, Voltage : 300V ± 10% Current : 2Amp, Protective Devices, Three Phase MCB (TPN) : 2 Nos.</p> <p>Features</p> <ul style="list-style-type: none"> <li>• Compatible for Machines upto 3HP</li> <li>• Equipped with Measurement Facilities for Experimentation on AC Machines, DC Machines and Transformers</li> <li>• Separate AC and DC Measuring Sections</li> <li>• Diagrammatic representation of AC and DC Machines for better understanding</li> <li>• Rust Free Powder Coating Paint</li> <li>• Standard BS terminals, patch cords for safety purpose</li> <li>• Terminals provided to obtain Three Phase Fixed as well as Variable AC and DC Supplies with suitable protection</li> <li>• High Quality Digital Tachometer for RPM Measurement which is also interfaced with DAQ (Data Acquisition System)</li> <li>• Suitable protections such as MCB's, Fuses</li> <li>• Designed by considering all the safety measures</li> </ul>	1	71959
6	<p><b>Electrical safety Demonstration work bench</b></p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Designed, considering all safety standards.</li> <li>• Exclusive design and attractive presentation of each block.</li> <li>• This trainer represents many essential safety precautions.</li> <li>• Unique demonstration &amp; importance of Earthing.</li> <li>• Real time appearance of MCB to help the students to understand its mechanical arrangement.</li> </ul>	1	80585

<ul style="list-style-type: none"> <li>Demonstration of Fuse in very easy way.</li> </ul> <p>Provided with a manual containing coloured graphical representation of many safety standards and with very interesting activities which are to be performed by students.</p>		
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### 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 tender on the company letter head mentioning official address, Contact No, e Mail address and website (if available) address
  - Tender fee and EMD (3% of the quoted cost or Re. 5000 whichever is minimum) OR Exemption 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.				

Date -  
Place -

(Signature)  
Rubber Stamp of organisation

- 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 \_\_\_\_\_" and writing complete address of the undersigned.
- The quotations should reach the undersigned on or before **dt.08.02.2018**-
- 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 11 AM on **dt.09.02.2018**
- 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.

  
 ( Dr. A.S. Pant )  
 Principal

Govt. College of Engineering & Research,  
Awassari khurd