

**INDUSTRIAL TRAINING DEPARTMENT  
(KERALA STATE)**

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No: ITI-CHCK/231/2021-B4

Date: **25.08.2021**

**E TENDER NOTICE**

TENDER No: B4/21/2021

Competitive **e-tenders** are invited from approved firms / companies/ traders for the supply of Trainers for training purpose related to Strive Project, at Government Industrial Training Institute (ITI) , Chackai , Kerala. The name of item, required number etc. are listed below:

Required Items

**TRAINERS FOR VARIOUS TRADES**

**Tender Specification and Schedule**

<b>Sl. No.</b>	<b>Name of Items</b>	<b>Detailed Specifications</b>	<b>Trade / Course for which it is Required</b>	<b>Total Required Quantity</b>
1	Trainer on basic digital electronics	Logic gates Boolean Expression adder, sub tractor, flip flop, counter register, converter etc. (Instrument with Fixed DC Power Supplies : +5V / 1.5A; - 5V / 0.3A; +12V / 0.3A. Adjustable DC Power Supply : 0 to 15V / 0.5A., Clock Signal Generator : 1 Hz to 1MHz (in 6 Ranges). 16 SPDT switches as HI / Low Inputs., 2 Nos. pulsar switch with Q and Q' o/p with denounce circuit. Trainer on basic digital electronics i.e. Logic gates, Boolean Expression, adder, sub tractor, Flip-flop, counter, register, converter, 2 digit BCD coded thumbwheel Switch.16 sets of independent LED's to indicate high & low logic state. 4 sets of independent 7 segment LED display with BCD to Seven Segment Decoder driver. Logic Probe: TTL and CMOS level with 5mm LED Display to display "Low" and "High", An 8 ohm / 0.5W speaker,	Instrument Mechanic	1

		Breadboard Module Installation and Commissioning done by the suppliers. Warranty - 1 year		
2	Trainer on RS485 to RS232 converter	Trainer with software for test communication with computer, Signal Conversion RS 485-RS232, Power supply 230 VAC/50Hz, Working mode 2-wire half-duplex Transmission distance: RS232: Typical: 15 FT (5m), RS485: Typical 4000FT (1200m) Maximum Baud Rate: 100 Kbit/ s to 10Mbit/s, "Receive" and "Transmit" modes LED indicators. Installation and Commissioning done by the suppliers. Warranty - 1 year	Instrument Mechanic	1
3	Solar Training Kit/Simulator	With built in meters for DC V,DCA,AC multifunction Meter(for ACI,ACV,Power, frequency)Protection circuits, BS-10 terminals for making the connection, Single/Dual axis tracking system,Charge Controller:PWM based MMPT,Charging stage:Bulk,Absorptions and float,capacity 500VA solar control unit,12V/110Ah smf battery(charging with both solar and AC), output voltage 230V 50Hz, installation and commissioning with 3 year warranty	Mechanic Consumer Electronic Appliances	2
4	Seven Segment DPM Trainer	with 5X4 matrix keyboard,20 keys consists of Hexadecimal numerals from 0 to 13, 16X2 LCD, facility for backlight display, connect to 8255 using 26 pin FRC connector, user manual with simple programs like display a word on a two line LCD etc,Range-Voltage-DC 200 mV Display 3 and 1/2 digit Input impedance 10M ohms, 1 year warranty	Mechanic Consumer Electronic Appliances	12

5	Linear IC Trainer	2 No.s of Bread board, Fixed DC sources of +5V, -5V and +/-12V @0.5A, Variable DC sources of +/-15V, @ 0.5A, clock frequency of 1Hz, 10Hz, 10KHz, 100KHz, One seven segment display, Resistors C24C17C24, capacitors of standard values, 1K ohms, 10K ohms, 100K ohms, 470K ohm C22s 1M ohms potentiometers, In built signal generator for square, sine, triangular waveforms, Warranty: 1 year	Technician Medical Electronics	3
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The tenderers should have the necessary portal enrolment (with their own **Digital Signature Certificate-DSC**).

1. Mode of submission of Tender : Tender should be submitted online through 'etenders.kerala.gov.in'
2. Date of publishing Tender : 25-08-2021
3. Date of start of downloading : 25-08-2021
4. Date of start of tender submission : 25-08-2021
5. Last date of tender downloading : 08-09-2021
6. Last date of Tender submission : 08-09-2021 05.00 PM
7. Date and time of Tender opening : 10-09-2021 11.00 AM

Principal reserves the right to reject any or all tenders without assigning any reason thereof

**Principal**