



GOVT. OF ASSAM
OFFICE OF THE PRINCIPAL::ASSAM ENGINEERING INSTITUTE
CHANDMARI, GUWAHATI: ASSAM: PIN-781003
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TENDER NOTICE

Sealed quotations affixing non-refundable court fee stamp of Rs 8.25 only are invited by the undersigned for purchase of **Electronic items in respect of ETC Engg. Department** at Assam Engineering Institute, Guwahati. The interested Authorized dealers/ Agents may collect tender paper from the office of the undersigned w.e.f. **17/11/2025**. The last date of submission of quotation is fixed on **01/12/2025** up to **2 PM** and will be opened at **3 P.M.** on the same day in the office Chamber of the undersigned in presence of the Tenderers or their authorized representatives, if any.

The terms & conditions of this notice are as follows.

TERMS & CONDITIONS

1. For quoting the item: one must have an established firm. The undersigned may verify the establishment before placing the order.
2. The materials covered under this invitation are to be delivered at consignee's address within 7 days from the date of placing the order.
3. Tenderers submitting tenders shall quote their lowest possible prices (including delivery & installation at site). Taxes if any are to be shown separately in the quotation.
4. All the Tenders shall be either type written or written neatly in indelible ink. Detail specification for each item quoted must be furnished.
5. All prices and other information like discount etc. bearing on the price shall be written both in figures and words, without any overwriting.
6. Guarantee/warranty period if any should be mentioned.
7. Payment will be made on presentation of bill in triplicate after full delivery with full satisfaction. No advance payment shall be made.
8. The undersigned however reserves the right to accept or reject any or all tenders without assigning any reason thereof.
9. The items and the number of items mentioned in the list of items are tentative. Depending upon the fund. The purchaser may or may not purchase an item and vary the quantity.

N.B- The items list attached in the next page

The Previous Tender Notice Memo No. AEI/Purchase/2025/3215 dated 20/08/2025 has Canceled due to Technical reason.

Sd/-

Principal
Assam Engineering Institute
Guwahati-3

Memo No. AEI/ PURCHASE/2025/ 4168

dt. 17-11-2025

Copy to:

1. Notice Board/ Website
2. Office Copy.


Principal
Assam Engineering Institute
Guwahati-03

Sl No.	Item	Specification	Quantity (Nos.)
1	Micro Controller Kit 8051	• 8-bit microcontroller • 4 KB ROM • 128 bytes RAM • 32 I/O pins • 2 Timers • Serial port • 6 Interrupts • 16-bit counters • 12 MHz clock • On-chip oscillator	1
2	Micro Processor Kit 8085 with Power Supply	• 8-bit microprocessor • 3 MHz clock speed • 16-bit address bus • 64 KB memory support • 74 instructions • 246 opcodes • 5 interrupt lines • On-board power supply • Single +5V operation • Hex keypad input	2
3	Digital Electronics trainer Kit a. Trainer Kit of all logic gates & ICs b. Trainer Kit of RAM characteristics c. Trainer Kit of Shift Register	a. Trainer Kit of All Logic Gates & ICs • Includes AND, OR, NOT, NAND, NOR, XOR, XNOR • Uses standard TTL/CMOS ICs • LED output indicators • Switch inputs • +5V regulated power supply	2
		b. Trainer Kit of RAM Characteristics • Demonstrates RAM read/write operations • Address/data bus access • Control signals monitoring • LED display for data • On-board RAM IC	2
		c. Trainer Kit of Shift Register • Implements serial/parallel operations • Supports SIPO, PISO modes • Uses 74-series shift register ICs • Clock pulse control • LED output display	2

		Green. c. 10 KOhm - Widely used for pull-up/pull-down. - Color code: Brown-Black-Orange. - Controls current flow. d. 1000 Ohm - Equal to 1 KOhm. - Used in LED protection. - Color code: Brown-Black-Red. e. 1 KOhm 8Watt - High power resistor. - Handles more heat. - Suitable for power circuits.	
7	Transistors a. CL/SL100 b. BC547	a. CL/SL100 - NPN power transistor. - Used in switching, amplification. - Handles high current, voltage. - TO-39 metal case. b. BC547 - NPN general-purpose transistor. - Used in low-power applications. - TO-92 plastic package. - Max current ~100mA.	
8	Battery a. 9V	a. 9V - Compact rectangular battery. - Common in toys, meters. - Provides 9 volts DC. - Snap connector terminals.	10
9	Step Down Transformer a. 6V b. 9V c. 12V	a. 6V - Reduces voltage to 6V AC. - Used in low-voltage circuits. - Primary higher voltage input. b. 9V - Outputs 9V AC.	5 each

4	Analog Electronics Trainer Kit a. Trainer Kit of Diode characteristics b. Trainer Kit of Rectifier Circuit	a. Trainer Kit of Diode Characteristics - Studies PN junction/Zener diode - Input/output terminals - Graphical output on CRO - Adjustable voltage supply - Voltmeter/Ammeter display	1
		b. Trainer Kit of Rectifier Circuit - Includes half/full-wave rectifiers - Built-in transformer - Load resistor - Ripple measurement - Output waveform via CRO	1
5	Tools a. Cable cutter b. Wire cutter	a. Cable Cutter - Designed to cut thick electrical cables. - Offers clean cuts without fraying wires. - Often has insulated handles for safety. - Suitable for copper or aluminum cables.	5
		b. Wire Cutter - Cuts thinner electrical wires. - Precision tool for electronics and wiring. - May include stripping function. - Ideal for small-gauge wires.	5
6	Resistor a. 100 KOhm b. 1 MOhm c. 10 KOhm d. 1000 Ohm e. 1 KOhm 8Watt	Resistor a. 100 KOhm - Limits current in circuits. - Common in voltage dividers. - Color code: Brown-Black-Yellow. b. 1 MOhm - High resistance value. - Used in signal processing. - Color code: Brown-Black-	50 each

		• Suitable for small electronics. • Converts mains voltage safely. c. 12V • Provides 12V AC output. • Common in power supplies. • Steps down from mains voltage.	
10	Bread Board	• Solderless prototyping tool. • Connects electronic components easily. • Has interconnected rows and columns. • Reusable for circuit testing.	5
11	Zener Diode a. 5V, PN Junction Diode (1N4007)	a. 5V • Voltage regulator diode. • Maintains 5V constant voltage. • Operates in reverse breakdown region. • Used for voltage stabilization. PN Junction Diode (1N4007) • General-purpose rectifier diode. • Blocks reverse voltage up to 1000V. • Forward current up to 1A. • Used in power supplies.	25 each
12	Thyristor a. FET	Thyristor • Semiconductor device for switching. • Controls high power circuits. • Triggered by gate signal. • Latches ON until current stops. FET (Field Effect Transistor) • Voltage-controlled transistor. • High input impedance. • Used for amplification and switching. • Types: JFET, MOSFET.	10 each

13	Capacitor a. Electrolytic, 1 uf, 10 uf, 100 uf b. Ceramic 1nf, 10nf, 100 nf	a. Electrolytic • Polarized capacitor. • Values: 1μF, 10μF, 100μF. • High capacitance, low frequency use. • Used in power supplies, filtering.	30 each
		b. Ceramic • Non-polarized capacitor. • Values: 1nF, 10nF, 100nF. • Stable, low capacitance. • Used in high-frequency circuits.	30 each
14	Hook up Wire bundle	• Multiple insulated wires grouped together. • Used for internal electrical connections. • Flexible, color-coded for identification. • Various gauges and lengths available.	5 Bundle
15	Pot meter 1K, 10K, 100K	Potentiometer (Pot Meter) • Variable resistor for adjusting voltage. • Values: 1K, 10K, 100K ohms. • Used in volume, tuning controls. • Rotary or slide types.	10 each
16	Digital Multimeter	• Measures voltage, current, resistance. • Digital display for accurate readings. • Includes continuity and diode tests. • Portable and battery-powered.	2