



GOVT. OF ASSAM
OFFICE OF THE PRINCIPAL::ASSAM ENGINEERING INSTITUTE
CHANDMARI, GUWAHATI: ASSAM: PIN-781003
EMAIL-principal.aei@gmail.com

TENDER NOTICE

Sealed quotations affixing non-refundable court fee stamp of Rs 8.25 only are invited by the undersigned for purchase of **Laboratory items of ETC Engineering Department** in respect of Assam Engineering Institute, Guwahati. The interested Authorized dealers/ Agents may collect tender paper from the office of the undersigned w.e.f. **05/09/2026**. The last date of submission of quotation is fixed on **18/09/2026** 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 items 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 in total amount not item-wise.**
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

Sd/-

Principal
Assam Engineering Institute
Guwahati-3

dt. 05-09-26

Memo No. AEI/ PURCHASE/2026 **2573**

Copy to:

1. Notice Board/ Website
2. Office Copy.


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MINIMUM REQUIREMENT TO START THE PCB DESIGN LAB

Equipment, PCB Fabrication Materials, Software and Electronic Components

Category	Item	Specification	Quantity
Equipment	Laser Printer	Toner-transfer compatible	1
Equipment	Electric Iron	750–1000 W	1
Equipment	PCB Drilling Machine	Mini PCB drill	1
Equipment	PCB Cutter	Manual PCB cutter	1
Equipment	Soldering Iron	40–60 W	1
Equipment	Soldering Iron Stand	With cleaning sponge	1
Equipment	Digital Multimeter	Basic digital type	1
Equipment	PCB Holder	Adjustable	1
Software	Proteus Professional	PCB design, schematic capture and simulation – Paid	1
Software	LTspice	Circuit simulation – Free	1
Software	DipTrace	PCB design and layout – Paid	1
PCB Fabrication	Copper Clad PCB	Single-sided FR-4	20
PCB Fabrication	Copper Clad PCB	Double-sided FR-4	10
PCB Fabrication	PCB Etching Tray	Chemical-resistant tray	2
PCB Fabrication	Ferric Chloride	Powder/solution	2
PCB Fabrication	IPA / Isopropyl Alcohol	PCB cleaning	2
PCB Fabrication	Ethanol	Cleaning/developing use	1

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PCB Fabrication	Developer Solution	PCB photoresist developer	2
PCB Fabrication	Photo Paper	Toner-transfer paper	100
PCB Fabrication	Distilled Water	For PCB processing	5
PCB Fabrication	Tissue Paper	Cleaning/drying	5
PCB Fabrication	Solder Wire	60/40, approx. 1 mm	5
PCB Fabrication	Flux	Soldering flux	3
PCB Fabrication	Desoldering Pump	Manual	2
PCB Fabrication	Desoldering Wick	2–3 mm roll	3
PCB Fabrication	PCB Marker	Permanent marker	5
Components	Resistor Assortment	$\frac{1}{4}$ W assorted values	2
Components	Capacitor Assortment	Ceramic/electrolytic assorted	2
Components	1N4007 Diode	1 A rectifier diode	100
Components	1N4148 Diode	Switching diode	100
Components	5.1 V Zener Diode	0.5/1 W	50
Components	6.2 V Zener Diode	0.5/1 W	25
Components	12 V Zener Diode	0.5/1 W	25
Components	Bridge Rectifier	1–2 A	20
Components	Red LED	5 mm	100
Components	Green LED	5 mm	100
Components	Yellow LED	5 mm	50
Components	7805 Voltage Regulator	+5 V	20
Components	7905 Voltage Regulator	–5 V	20
Components	7812 Voltage Regulator	+12 V	10
Components	LM317	Adjustable regulator	10

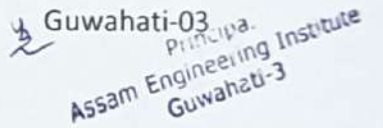
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Components	NE555	Timer IC	10
Components	LM741	Op-amp	10
Components	IC Socket	8/14 pin assorted	20
Components	10 k Ω Potentiometer	Panel/PCB mount	20
Components	100 k Ω Potentiometer	Panel/PCB mount	10
Components	2-pin Terminal Block	PCB type	20
Components	SPST/SPDT Toggle Switch	Small panel/PCB type	10
Components	Fuse + Holder	1 A	10
Components	TO-220 Heat Sink	For regulators	20
Components	Transformer	230 V / 12-0-12 V, 500 mA	5
Additional Lab Requirements	A4 Paper	75 GSM, 500 sheets per ream	2
Additional Lab Requirements	Marker	Whiteboard marker, assorted colours	2

P. Choudhary
5/9/26


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