

**DEPARTMENT OF TECHNICAL EDUCATION
GOVERNMENT POLYTECHNIC COLLEGE, GANDARVAKOTTAI**

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NOTICE INVITING e-TENDERS

Tender Inviting Authority: **The Principal, Government Polytechnic College,
Gandharvakottai –613301.**

Reference No.2967/A3/2026

Dated. 27.05.2026

I. SCHEDULE OF TENDER:

1.1 e-Tenders are invited through online in two Bid system from well established Companies / Organizations (hereinafter referred as the 'Bidder') for the Purchase of Lab Equipments for ECE Department at Government Polytechnic College, Gandarvakottai, Pudukottai District, Tamilnadu (hereinafter referred as the 'GPTC').

1.2 The Specifications are:

S.No.	Items	Quantity/ Nos.
1.	Ask modulation and Demodulation kit <u>Specifications:</u> • Message Signal1: 8-bit variable data, amplitude 5V. • Message Signal 2: Debounced data, amplitude low (0) and high (5 V). • Message Signal 3: Fixed data 25 kHz, 12.5 kHz, 6.25 kHz, 3.12 kHz, amplitude 5 V. • Carrier signal: Sine wave, frequency 200 kHz, amplitude 5 V. • Modulator type: Switching modulator using analog switch / transistor switching IC. • Demodulator: Envelope detector and LPF. • Comparator: LM311 based. • Supply voltage (board): +12 V, +5 V dc. • Supply current: 100 mA minimum. • Input voltage: 230 V ac, 50 Hz. • Interface connectors: 2 mm banana socket.	1
2.	Fiber Optic Communication Trainer Kit <u>Specifications:</u> Power Supply: • 230 V ac $\pm 10\%$, 50 Hz mains operation. • Built-in regulated power supply. Optical Transmitters: • LED transmitter: 660 nm. Optical Receivers: • Phototransistor / PIN photodiode receiver. • Built-in signal conditioning and amplifier circuits. • Audio power amplifier with speaker/headphone output. • Comparator / pulse shaping circuit for digital signal recovery. • Test points for CRO observation and signal monitoring. Fiber Media: • Multimode Plastic Optical Fiber (POF). • Fiber patch cords with connectors. Signal Sources: • Built-in sine wave generator. • Built-in square wave / digital pulse generator. • Voice signal input through built-in microphone/audio source. Trainer Features: • Separate transmitter and receiver sections. • On-board test points for signal observation. • LED indicators for signal monitoring. • Fault simulation facility. • Compact tabletop modular design. •	1

	Circuit diagram printed on PCB. Bandwidth: • Analog bandwidth: up to 350 kHz. • Digital bandwidth: up to 2.5 MHz. Controls: • Variable signal amplitude control. • Variable frequency control. • Optical intensity adjustment. Standard Accessories: • Patch cords and connectors. • Power cord. • Audio connecting cable. • User manual.	
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TERMS AND CONDITIONS:

1. Bidders should submit their bids in two bids system through online (www.tntenders.gov.in) in the prescribed format only.
2. **Technical Bid:** Should be submitted along with self-attested scanned copies of PAN No, Address Proof & GST No with Registration Certificate, Product Specification with model Details. in. pdf format.
3. **Financial Bid:**
 - a) In.xls format only (Excel format).
 - b) GST should be mentioned separately.
 - c) Rates quoted by Bidders should be firm and final and it should include all the charges (i/e. Freight charges, Unloading charges, etc.)
 - d) Prices should be quoted only in Indian Rupees (INR).
4. Tenders in any other manner will not be accepted.
5. **Validity** of the bid should not be less than **90 days**.
6. **Warranty** of the Equipment should be mentioned.
7. **Delivery & Installation** of the item should be done at the designated place of Government polytechnic college, Gandharvakottai – 613301.
8. **Mode of payment** through ECS of supplier's bank account. Payment will be given only after the goods are received in good condition.
9. **No Advance payment will be made & No Installation charges will be paid.**
10. The Principal, Government polytechnic college, Gandharvakottai – 613301 has reserves the right to modify, reduce and increase the quantity required.
11. The Tender Inviting Authority reserves the right not to accept lowest price or to reject any or all the tenders without as signing any reasons.
12. Brochures with the images of the product should be produced. Bids without the brochures will be summarily rejected.
13. Quotations without specifying the above mentioned details will summarily get rejected.
14. TDS (2%) on Taxable goods to be paid by the supplier if total value of the supply amount exceeds 2.5 lakhs.
15. Vender's Head office/Branch office should be in TamilNadu for better service.

Principal / Tender Inviting
Authority Government Polytechnic College
Gandharvakottai 613301