

GOVERNMENT OF TAMILNADU

DEPARTMENT OF TECHNICAL EDUCATION

THANTHAI PERIYAR E.V.RAMASAMY GOVERNMENT POLYTECHNIC COLLEGE

BAGAYAM ROAD, SIVARAMAPURAM, VELLORE – 632 002.

E – Tender Notice.: 1585/C4/2026, Dated-27.05.2026

1. On line bids are invited through portal <http://tentenders.gov.in> from the bidders for purchase of **Equipments for Electrical and Electronics Engineering(EEE) department**
2. e-bid documents can be downloaded free of cost from <https://tentenders.gov.in> from 27.05.2026 to 09.06.2026.

3. Important dates:-

a	Last date and time for downloading and e-submission of bid documents	09.06.2026 up to 5.45 Hrs
b	Date and time of online opening of bid documents	10.06.2026, 13.00 Hrs. onwards

4. TERMS AND CONDITIONS:-

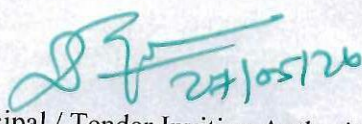
- 1 The rate should be quoted in BOQ format.
- 2 The present rate of GST should be quoted.
- 3 The warranty of equipments must be mentioned.
- 4 Advance payment cannot be made.
- 5 The Validity of your quotation should be up to 30.06.2026.
- 6 Payment will be made within a reasonable time only after the receipt and installation of materials in good working condition in every aspect.
- 7 The Validity of your quotation, delivery period after the receipt of supply order should be clearly mentioned in the Technical Bid.
- 8 Bids in physical form is not accepted.
- 9 The Supply order will be issued once the financial budget allotment order is received from Directorate of Technical Education, Chennai – 600 025.
- 10 Other details can be seen in the bid documents.
- 11 The Tender Inviting Authority has full authority to cancel the tender without any reason prior intimation.

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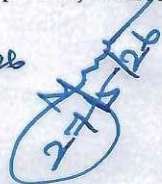
- 12 As per Tamilnadu Transparency Tender Act 1998 and Tamilnadu Transparency in Tender Rules 2000 :-

The Principal / Tender Inviting Authority, Thanthai Periyar E.V.Ramasamy Government Polytechnic College, Sivaramapuram, Vellore - 632 002, reserves the right to modify, reduce and increase the quantity required items.

- 13 The Principal / Tender Inviting Authority, Thanthai Periyar E.V.Ramasamy Government Polytechnic College, Sivaramapuram, Vellore - 632 002, has full authority to cancel the tender without any reason and prior intimation.
14. Non Relative Certificate Stating that the Company has no relationship with the employees of this College has to be attached.
15. Delivery period: Time is the essence of this contract. Owing to the tight schedule of the upcoming academic calendar and to prevent any academic loss to the students, the successful bidder must fully deliver, install, check, and commission all the ordered laboratory equipment within exactly 7 Days from the date of issuance of the Award of Contract(AOC)/Purchase order
16. Vendor Capability: Bidders must ensure they have ready stocks available or a guaranteed supply chain before participating in this tender to meet the strict 7-day timeline


Principal / Tender Inviting Authority,
TPEVR Government Polytechnic College,
Sivaramapuram, Vellore - 632 002.


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**Thanthai Periyar E.V.Ramasamy Government Polytechnic College,
Sivaramapuram Vellore – 632 002.**

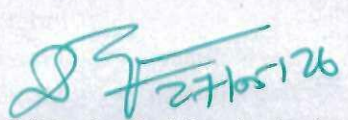
ANNEXURE

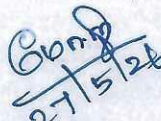
(E-Tender Notice No.: 1585/C4/2026, Dated:27.05.2026)

TECHNICAL BID

S.NO.	ITEMS DESCRIPTION	Specifications	QUANTITY
1.	DC shunt motor coupled Three Phase Alternator with Electrical Work Bench	DC shunt motor coupled with alternator : Shunt Motor rating : Voltage – DC 220V, Rating -5H P,RPM -1500,field current 0.8A, Armature current 1 6A, 3 -point starter Alternatorrating : Voltage – AC 415V, Rating – 3 kVA, RPM - 1500, field current - 1.5A, Armature current -4.2A. Electrical Panel board with workbench -cupboard with door. Panel board- with proper internal wiring& terminals insulatedNecessary symbols of motor, alternator and starter, fuse, supply indicators to be printed on panel board -digital rpm indicator with proximity sensor to be provided – digital ammeters and voltmeters for motor and alternator to be provided on panel board.	1 No
2.	ON / OFF control of Lamp using solid state Relay kit	Type : Solid State Relay (SSR) Trainer Kit Control/Input Voltage : 12 V / 24 V DC or up to 30 V DC Output Load Voltage : 230 V AC, Single Phase Load Control : ON/OFF control of AC lamp load Solid state relay based switching circuit Opto -isolated input control Built -in AC lamp load Manual ON/OFF switching arrangement LED indication for input and output status	1 No
3.	Single phase Single pulse / Sinusoidal PWM inverter using MOSFET/IGBT kit	Type : Single Phase PWM Inverter Trainer Power Device : MOSFET / IGBT based inverter circuit Input Supply : 12 –24 V DC Output Voltage : 30 V RMS AC Output Phase : Single Phase Output Frequency : 0 –50 Hz variable Output Power : 100 W Single Pulse PWM operation Sinusoidal PWM (SPWM) operation Variable frequency control PWM generation and firing control circuit inbuilt Gate driver circuit provided Test points provided for waveform observation and analysis Built -in resistive load provision	1 No
4.	Speed Control of AC Motor using VFD drive module with AC motor	Type : Variable Frequency Drive (VFD) Module Input Supply : 415 V AC, Three Phase, 50 Hz Output : Three Phase variable voltage and variable frequency AC output 1 HPThree Phase Squirrel Cage Induction Motor415 V ac 50 Hz &1440 RPM Control Technique : PWM / SPWM based control Frequency Range : 0 –50 Hz variable Digital display	1 No

		for frequency and operating parameters Start / Stop and Forward / Reverse control Acceleration and deceleration control facility Powder coated MS control panel Tabletop / floor mounted laboratory type setup Clearly labelled circuit diagram and control switches Proper insulated terminals and earthing arrangement	
5	PWM based step down DC Chopper using MOSFET/IGBT kit	PWM Based Step-Down DC Chopper (Buck Converter) Power Device : Power MOSFET / IGBT based switching circuit Input Supply : 24 V DC to 110 V DC or derived from 230 V AC mains through rectifier unit Output Voltage : (0 to Vin) variable dc Output Current : Up to 5 A dc maximum with suitable load resistor (R load) PWM duty cycle control provided PWM generation and control circuit inbuilt Gate driver circuit provided Freewheeling diode protection provided Test points for waveform observation ✓	1 No
6	DSO	Bandwidth: 50 - 100 MHz. Sampling Rate: 1GS/s. Channels: 2 (minimum) Power Supply: 100V-240V AC, 50-60 Hz Automatic Measurement: Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Rise Time, Fall Time, + Width, - Width, +Duty, - Duty etc., Horizontal Scale: 5 ns/div – 50 s/div or equivalent Vertical Resolution: 8 bits (2 Channels simultaneously) Vertical Sensitivity: 1 mV/div – 10 V/div (at input) Waveform Math: +, -, x, ÷, invert, FFT etc., Waveform Storage: 16 waveforms or equivalent Communication Interface: USB Host, USB interface. 7-inch color display or equivalent Input impedance - 1 MΩ ±2%, // 20 pF 2 × passive probes (1X/10X) ✓	1No


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