

GOVERNMENT OF TAMILNADU
DEPARTMENT OF TECHNICAL EDUCATION
GOVERNMENT POLYTECHNIC COLLEGE, JOLARPET – 635 651.
TIRUPATTUR (DIST).

NOTICE INVITING TENDER

File No: 1707/ A4 / 2026

Date:27-05- 2026

Online bids are invited through our portal [https:// tntenders.gov.in](https://tntenders.gov.in) from interested bidders for the supply of following item:

TECHNICAL SPECIFICATIONS

Sl.No	Name of the Item with specifications	Quantity.
1	Three Phase Transformer Rating: 3 kVA Input Voltage: 415 V ac, 3-Phase Output Voltage: 230 V ac, 3-Phase Frequency: 50 Hz Winding Material: Copper wound Insulation Class: Class B or higher Duty: Continuous duty suitable for laboratory useBench/Floor mounted suitable for laboratory operation All winding terminals shall be brought out to insulated terminals and enclosed within a protective outer cover for safe laboratory operation	01
2	DC Stepper Motor Driver Kit with Stepper Motor Input Supply : 230 V AC, 50 Hz Stepper Motor : Permanent Magnet / Hybrid Type with suitable driver circuits. Motor Operating Voltage : 12–24 V DC Variable Speed Control Forward and Reverse Direction Control Full Step and Half Step Operation Manual / Automatic Pulse Generation Facility Built-in Regulated DC Power Supply LED Indication for Phase Sequence and Status Test Points provided for waveform observation Start / Stop Control Switches to be provided Overload and Short Circuit Protection to be provided Mounted on compact powder coated cabinet with printed circuit diagram Proper insulated terminals and interconnecting leads to be provided Patch chords for interconnection.	01
3	DC Servo Motor Driver Kit with Servo Motor Input Voltage 12 - 24V, DC, 5A, 10-60Rpm Input Supply : 230 V AC, 50 Hz Servo Motor Type : DC Servo Motor with feedback arrangement Motor Operating Voltage : 12–24 V DC	01

	Controller Type : Microcontroller based servo drive controller Speed Control : Variable speed control to be provided Position Control : Angular position control facility to be provided Direction Control : Forward and Reverse operation Feedback Device : Encoder / Potentiometer based feedback system Built-in Regulated DC Power Supply LED Indications for power and status Test points to be provided for signal observation and analysis Start / Stop control switches provided Overload and short circuit protection to be provided Mounted on powder coated cabinet with printed circuit diagram Proper insulated terminals and interconnecting leads to be provided	
4	Three Phase Resistive Load Rating: 5.25 kW Supply: 415 V ac, 3-Phase, 50 Hz Total Number of Load Steps: 6 Main switch to be provided Approximate dimensions: 18 × 18 × 22 inches (L × B × H) Comprising special cement-insulated electrical load resistors Mounted on powder-coated MS panel/enclosure Individual ON/OFF rotary switches for load selection Mounted on rubber wheels/casters for portability Suitable for laboratory load testing applications Proper insulation, ventilation, and earthing arrangement to be provided	01
5	Single Phase Induction Motor with Load arrangement 5HP ,230V, 1400 RPM Single Phase, 2HP,230V,1440 RPM with DOL starter Loading Arrangement and electrical workbench Mechanical Rope with Aluminum Brake drum Loading with Adjustable wheels - 2 No's 0-50 kg Spring Balance - 2 No's Electrical Panel board with workbench -cupboard with door. Panel board- with proper internal wiring& terminals insulated Necessary symbols of motor and starter, fuse, supply indicators to be provided and printed on panel board -digital rpm indicator with proximity sensor to be provided - required number of digital ammeter	01
6	Three Phase Synchronous Motor with Electrical Workbench 3-phase synchronous motor with electrical workbench and loading arrangement , Rating: 5 HP Voltage: 440 V AC, 50 Hz Speed: 1500 rpm (synchronous speed), Induction start using damper winding, Suitable starter panel, DC supply (0–220 V DC adjustable (variable DC control) within the panel),and necessary workbench Electrical Panel board with workbench -cupboard with door. Panel board- with proper internal wiring& terminals insulated Necessary symbols of motor , starter, exciter, fuse, supply indicators to be provided and printed on panel board -digital rpm indicator with proximity sensor to be provided -required number of digital ammeters and voltmeters for motor to be provided on panel board.	01
7	Synchronizing Panel Three Phase, 415V, 15A Synchronizing Panel with Ammeter, Voltmeter & Frequency meter with dark & bright lamp set (6 No. Of lamp & holder set up) and Synchronoscope	01

8	Three Phase auto Transformer starter 3-phase variable autotransformer Input: 415 V Output: 0–470 V AC (continuous) Current: 15 A Copper wound, carbon brush type Heavy duty toroidal/core construction Mounted in powder coated MS/CRCA enclosure Front panel mounted voltage control knob with scale indication Proper insulated terminals provided Floor/bench mounted type suitable for laboratory use Input/Output terminal arrangement provided MCB/Fuse protection provided Proper earthing terminal provided Ventilation arrangement for heat dissipation	01
9	Single Phase to Single Phase Cycle Converter Kit Single-phase bridge cyclo converter Power devices: SCR/TRIAC based Input Supply: 230 V AC, 50 Hz Step-down isolation transformer 230 V / 12 V Output: 12–15 V ac, Frequency: 0–25 Hz (adjustable), Firing angle control circuit and frequency control circuit to be provided Built-in resistive load, terminals to be brought on MS panel with necessary symbols and circuits	01
10	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 V_{in}) 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	01
11	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	01
12	On /Off Control of Lamp Using Solid State relay kit Type : Solid State Relay (SSR) Trainer Kit	01

	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	
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Instructions /Terms and Conditions

1. **The bidders must be registered with Tamil Nadu Government e-procurement system portal and also should posses Digital Signature Certificate.**
2. The bidders should have corporate office/registered office/branch office/ service centre within Tamilnadu. Copy of proof of address for having office within Tamilnadu should be uploaded.
3. All the items/Goods/Equipment/machineries/articles should be delivered at the college premises only.
4. Bidders should submit their bids in two bids system through online in prescribed format only.
 - a. Technical Bid:
 - b. Bidder should upload Technical Specification that should meet our requirement as detailed in NIT.
 - c. In addition to the technical Specification FORM A attached with this notice inviting tender should be filled up by bidder and upload it in PDF format.
 - d. Financial Bid:
 - i. In xls format only (Excel Format).
 - ii. Packing and forwarding / loading and unloading / installation should be included in the Basic Rate or unit price itself.
 - iii. All rates quoted should be in Indian Rupees (INR) only.
 - iv. Price quoted by the bidder should be **firm and final**.
5. Bids in physical form or in any other manner will not be accepted.
6. Bidders must not be black listed by any of the department / Institution of Government of Tamil Nadu.
7. The Bidders should posses a valid GST identification number. Copy of the GST registration Certificate is to be submitted/uploaded. Non-Registered firms are not entertained and bids shall be rejected.
8. Incomplete / Not clear bids shall be rejected.
9. The rates quoted should be open for acceptance for a period of 3 Months (or) 90 days. The warranty period should be mentioned. The warranty period shall commence, only after delivery / successful installation and commissioning of the Equipment / items/Goods/machineries / articles.
10. The offer should be for immediate delivery i.e. within fifteen (15) working days from the date of receipt of our order or as specified in the purchase order.
11. Non execution of the order within the prescribed date will lead to cancellation of orders placed. The supplier will be black listed.
12. The bills for the supply should be submitted in triplicate along with an Advanced stamped Receipt for payments.
13. The payment will be made within reasonable time only after the receipt and installation of materials in good working condition in every aspect.

14. Payment terms: No Advance payment will be made.
15. The supplier may claim 100% payment against delivery, proper installation & commissioning and Goodness of fit certificate. As per Tamil Nadu transparency in tender act 1998 and Tamil Nadu transparency in tender Rules 2000
- The Principal Government Polytechnic College, Jolarpet – 635 651. reserves the right to modify, Reduce and increase the quantity specified.
 - Withhold any amount for the deficiency in service aspect of the ordered items.
 - If any dispute, On recommendations of the Evaluation Committee, The Principal reserves the right to accept or reject any quotations even of it is found lowest without assigning reasons thereof.
 - The right to reject all or any of the quotation and to split up the requirements or relax any or modify all the above conditions without assigning any reasons is reserved by the Principal Government Polytechnic College, Jolarpet – 635 651.
16. The Principal/ TIA reserves the right to cancel the tender without assigning any reasons.
17. For any Corrigendum and addendum please check the above website.
- 18. 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 ad commission all the ordered laboratory equipment within exactly 7(Seven) Days from the date of issuance of the Award of contract (AOC) /Purchase order.**
- 19. 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-days timeline.**

4/6/26 27/5/26

Tmt.R.POONGOTHAI,
Principal / Tender Inviting Authority,
Government Polytechnic College,
Jolarpet, Tirupattur – 635 651
PRINCIPAL
GOVT. POLYTECHNIC COLLEGE,
JOLARPET – 635 651.

on file 27/05/26
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FORM A**Bidder name (company name):**

SL.NO.	SPECIFICATION	RESPONSE
1.	Mentioned the Warranty Period in Years	
2.	Branch Office (or) Service Centre Address with Contact Number	
3.	Number of days Required to render Service / attend the Complaint (after lodging the complaint)	

SIGNATURE**COMPANY SEAL**