

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.2966/A3/2026

Dated. 27.05.2026

1. 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 Mechanical Department in Thermal Engineering Lab at Government Polytechnic College, Gandharvakottai, Pudukottai District, Tamilnadu (hereinafter referred as the 'GPTC').

1.2 The Specifications are:

S.No.	Items	Quantity/ Nos.
1.	Four Stroke Petrol Engine Test Rig <u>Specifications:</u> • Single cylinder, 4-Stroke Spark Ignition, Petrol Engine. • Air cooled • rope brake arrangement with spring balance for loading . • Speed :1500 – 3500RPM • Power 3 HP. • Panel board for measuring speed with power supply and tacho generator setup, burette with tank assembly. Load test – test rig kit . • Heavy-duty fabricated MS base frame • Anti-vibration mounting arrangement Powder-coated / painted finish	1
2.	Saybolt Viscometer Apparatus <u>Specifications:</u> • Glass type: High-quality borosilicate glass tube. • Control type: Manual energy regulator control. • Shape: Rectangular bath with cylindrical test chamber. • Temperature range: Ambient to 240°C oil bath temperature. • Humidity: Up to 80% RH (non-condensing). • Power supply: 230 V ac, 50 Hz. • Measuring range: 32 to 1000 SUS (Saybolt Universal Seconds). • Accuracy: As per ASTM D-88 (±0.2 seconds). • Mounting type: Benchtop. • Capacity: One cup (approximately 60 ml). • Control mode: Manual operation. • Port size: Standard orifice sizes as per ASTM D-88. • Features: Oil bath with heater, thermoregulator, insulated outer body, orifice, receiver flask.	2
3.	Cleveland Open Cup (COC) Apparatus <u>Specifications:</u> • Standard Compliance: ASTM D92 / IS 1448 (Part 69) • Test Method: Open cup flash and fire point determination • Test Cup: Brass, precision machined with heat resistant handle • Heater: Electric heater (1000 W ±10% Nickel chromium) with	2

	variable control • Heating Rate: 5°C per minute (as per standard) • Temperature Range: (-6 to 400)°C • Thermometer: ASTM 11C or equivalent • Flame Applicator: Gas test flame with fine control valve • Body: Stainless steel housing • Display: Analog / digital temperature indicator • Power Supply: 230V AC, 50 Hz • Safety: Overheat protection Heat insulation	
4.	Pensky-Martens Closed Cup Apparatus <u>Specifications:</u> • Standard Compliance: ASTM D93 / IS 1448 (Part 21) • Type: Pensky-Martens Closed Cup (motorized, digital type preferred) • Test Cup: • Brass cup • Diameter: 50.7–50.8 mm • Capacity: Minimum 70 ml • Stirring System: • Heater: Electric heater 650 W ±10% • Heating Rate: 1–12°C/min adjustable • Ignition: • Pilot flame with automatic shutter mechanism Temperature Measurement: • Thermometer or digital sensor(IP-28C or ASTM) Digital temperature display • Power Supply: 230V AC, 50 Hz • Safety: Over-temperature cut-off Flame safety control	2

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 de signated 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 fo r better service.

Principal / Tender Inviting
Authority Government Polytechnic College
Gandharvakottai 613301

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