

**प्राचार्य का कार्यालय**  
**राजकीय पोलिटेकनिक, कटिहार**

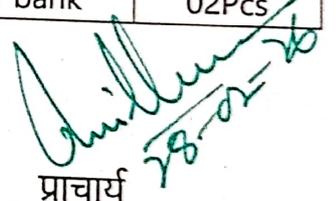
पत्रांक:- 195/कटिहार,

दिनांक:- 28/02/2026

**सूचना**

संस्थान के विधुत अभियंत्रण विभाग के प्रयोगशाला में उपकरणों के क्रय हेतु Quotation आमंत्रित की जाती है। आपूर्तिकर्ता दिनांक-07/03/2026 तक ऑनलाइन माध्यम से संस्थान के email Id-principal124gpkatihar@gmail.com पर Quotation प्रेषित कर सकते हैं एवं साथ-ही-साथ Offline mode के माध्यम से संस्थान में जमा करा सकते हैं। उपकरणों की विवरणी निम्नलिखित है :-

S.N.	Items	Specification	Qty
01	Lux Meter		05 Pcs
02	Electronic Ballast		02 Pcs
03	Different type of lighting system with full setup	system provided for different lamps such as halogen incandenscent lamp tubelight mercury vapor lamp sodium vapor lamp	01 Pcs
04	APFC	APFC trainer kit with motor load and capacitor bank	02Pcs

  
प्राचार्य

राजकीय पोलिटेकनिक, कटिहार

  
28/2/26

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**राजकीय पोलिटेकनिक, कटिहार**

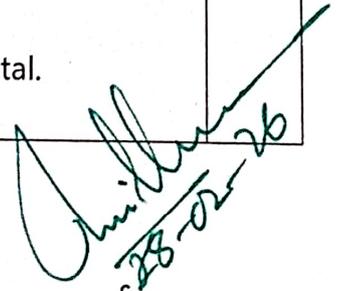
पत्रांक:-.....196...../कटिहार,

दिनांक:-28/03/2026

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S.N.	Items	Specification	Qty
1	Circuit Kit for verification of superposition theorem	SCOPE OF LEARNING: VERIFICATION OF SUPERPOSITION THEOREM VERIFICATION OF MAXIMUM POWER TRANSFER THEOREM TECHNICAL SPECIFICATIONS: Analog Meters: Ammeter 30mA DC. Ammeter 30mA DC. Voltmeter 12V DC. Power Supplies: DC Supply IC Regulated 0-12V DC, 150mA. DC Supply IC Regulated +5VDC, 150mA Operated on Mains power 230V, 50Hz +10% Components are mounted on the panels are: Resistances 2Watts Variable Resistor Voltage Control through Potentiometer. SALIENT FEATURES: Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. Fuse for Short Circuit protection Instruction manual. Connections are brought out through 4mm Colored Sockets. Patch Cords 4mm. The trainer is housed in ABS Plastic cabinet/Metal. Size of the trainer set 12"x8"	05 Pcs

  
28-03-26

प्राचार्य

राजकीय पोलिटेकनिक, कटिहार

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28/3/26



**प्राचार्य का कार्यालय**  
**राजकीय पोलिटेकनिक, कटिहार**

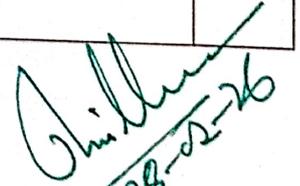
पत्रांक:-.....197...../कटिहार,

दिनांक:-28/02/2026

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S.N.	Items	Specification	Qty
01	DC Position Trainer Kit	Digital Meters: Voltmeter VDC 3.5 Digit. Power Supply: IC regulation in controller circuit power supplies Operated on Mains power 230V, 50Hz +10% Features: Position control of a 12 volt, 1 Amp DC geared PM motor (50/60 RPM) Calibrated dials with 1 degree resolution for reference and output position Two 360 degree Servo-potentiometers Built in step signal Built in waveform capture/display card for study dynamic SALIENT FEATURES: Front panel built with high class insulated Printed Circuit on Metal Board sheet with well printed circuits and symbols. Instruction manual. Connections are brought out through 4mm Sockets. Patch Cords 4mm. The trainer is housed in Metal cabinet. Size of the trainer set 18"x7"	02

  
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**प्राचार्य का कार्यालय**  
**राजकीय पोलिटेकनिक, कटिहार**

पत्रांक:- 198/कटिहार,

दिनांक:- 28/02/2026

**सूचना**

संस्थान के विद्युत अभियंत्रण विभाग के प्रयोगशाला में उपकरणों के क्रय हेतु Quotation आमंत्रित की जाती है। आपूर्तिकर्ता दिनांक-07/03/2026 तक ऑनलाइन माध्यम से संस्थान के email Id-principal124gpkatihar@gmail.com पर Quotation प्रेषित कर सकते हैं एवं साथ-ही-साथ Offline mode के माध्यम से संस्थान में जमा करा सकते हैं। उपकरणों की विवरणी निम्नलिखित है :-

S.N.	Items	Specification	Qty
01	SF6 circuit breaker trainer kit	<p>Testing of SF6 circuit breaker</p> <p>SF6 Circuit Breaker with Test Kit This test panel can be used to understand the basic working principle of SF6 circuit breaker under over current and earth fault conditions.</p> <p>Breaker Specification</p> <p>Type SF6-12KV</p> <p>Rated Voltage 12kv</p> <p>Rated Frequency 50 Hz</p> <p>Basic Insulation Level 28KV RMS</p> <p>Short time withstand current for 3 sec 40KA</p> <p>Operating sequence 0-0.3s-co-3min-co</p> <p>Operating time 36-55ms</p> <p>Closing Time 65-95ms</p> <p>Auxiliary supply 220vac</p> <p>Panel-with SF6 Breaker Test set up (current injection source)</p> <p>This panel consists of the following components</p> <ol style="list-style-type: none"> <li>1. Meter with Relay</li> <li>2. Variable ac current source with trip time indicator /meter</li> <li>3. Earth Fault SIMULATOR</li> </ol> <p>Variable ac current source with trip time indicator /meter</p> <ul style="list-style-type: none"> <li>· One number of Variable current source of 0-20A is provided to test SF6 breaker</li> <li>· One number of digital AC Ammeter is provided to indicate the Fault current in Amp.</li> <li>· Autotransformer is provided to adjust the current output.</li> <li>· One number of Automatic trip time measurement circuit (ATTM Circuit) is provided</li> <li>· One number START STOP push button are</li> <li>· One number Digital stop Clock is provided in ATTM Circuit to measure relay trip time in</li> <li>· One number reset switch is provided in front panel to restart the digital stop clock.</li> <li>· Provision of Breaker trip status indicator with manual on/off switch</li> <li>· Mimic diagram is printed on panel front plate for easy understanding</li> </ul> <p>Earth fault Simulator: -</p> <ul style="list-style-type: none"> <li>· One no of 3 phase 0.5HP AC induction motor provided.</li> <li>· One no of 100 Ohm rheostat provided for create short circuit.</li> </ul> <p>EXPERIMENT DETAILS:</p>	01 pcs

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		<p>1. Testing of SF6 under Over current fault conditions (under different fault current &amp; study the tripping characteristics)</p> <p>2. Testing of SF6 under Earth fault conditions (under different fault current &amp; study the tripping characteristics)</p> <p>3. Study the construction &amp; operation of SF6</p>	
02	Vacuum circuit breaker Trainer kit	<p>Vacuum Circuit Breaker. 3Ø, 3pole, 400A</p> <p>This set up is designed to study the working principle of VCB and to test the VCB (Vacuum circuit breaker) under over current fault and Earth Fault conditions.</p> <p>This set up consists of</p> <ol style="list-style-type: none"> <li>1. VCB ( Vacuum Circuit Breaker)-11KV</li> <li>2. VCB Test Kit with Panel set up</li> </ol> <p>VCB (Vacuum circuit Breaker) Specification</p> <p>Name VCB</p> <p>Capacity 11KV</p> <p>Type Draw out Type</p> <p>Rated Current 400A</p> <p>Rated S.C Breaking 36.6 KA</p> <p>No. of Pole Three Pole</p> <p>Other Features Housing: The VCB is housed in M.S. Cubicle box with conduit plugs are provided with side entry of cables. Provision for termination of contacts is made inside the cable box</p> <p>Panel with VCB Test set up (current injection source)</p> <p>This panel consists of the following components</p> <ol style="list-style-type: none"> <li>1. Meter with Relay</li> <li>2. Variable ac current source with trip time indicator /meter</li> <li>3. Earth Fault SIMULATOR</li> </ol> <p>Variable ac current source with trip time indicator /meter</p> <ul style="list-style-type: none"> <li>· One number of Variable current source of 0-20A is provided to test VCB</li> <li>· One number of digital AC Ammeter is provided to indicate the Fault current in Amp.</li> <li>· Autotransformer is provided to adjust the current output.</li> <li>· One number of Automatic trip time measurement circuit (ATTM Circuit) is provided</li> <li>· One number START STOP push button are</li> <li>· One number Digital stop Clock is provided in ATTM Circuit to measure relay trip time in</li> <li>· One number reset switch is provided in front panel to restart the digital stop clock.</li> <li>· Provision of Breaker trip status indicator with manual on/off switch</li> <li>· Mimic diagram is printed on panel front plate for easy understanding</li> </ul> <p>Earth fault Simulator: -</p> <ul style="list-style-type: none"> <li>· One no of 3 phase 0.5HP AC induction motor provided.</li> <li>· One no of 100 Ohm rheostat provided for create shot circuit.</li> </ul> <p>EXPERIMENT DETAILS:</p> <ol style="list-style-type: none"> <li>1. Testing of VCB under Over current fault conditions (under different fault current &amp; study the tripping characteristics)</li> <li>2. Testing of VCB under Earth fault conditions (under different fault current &amp; study the tripping characteristics)</li> </ol>	01 pcs

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03	Transformer protection Trainer kit	<p>3. Study the construction &amp; operation of VCB</p> <p>Technical specifications:</p> <ul style="list-style-type: none"> <li>- The relay test bench is provided with Software for oscillographic harmonic recording up to max 20 cycles and Pre fault and Post fault cycles.</li> <li>- The oscillographic records can be transferred to PC via USB in COMTRADE format.</li> <li>- Have sturdy enclosure with colorful overlays showing circuit diagrams and its connections for easy understanding of students.</li> <li>- Detailed manual with theory and practical guidance with tables and charts</li> </ul> <p>1. SINGLE PHASE TRANSFORMER:</p> <ul style="list-style-type: none"> <li>- One Number of Single-phase with rating: 200VA, 230/48 V Step down transformer is to be provided,</li> <li>- One Number of Single-phase with rating: 200VA, 24-0-24/ 24-0-24 Open type transformer is to be provided.</li> </ul> <p>2. CONTROL PANEL:</p> <ul style="list-style-type: none"> <li>- Digital ammeters in the primary and secondary sides</li> <li>- Suitable fault resistances.</li> </ul> <p>Numerical Differential Relay</p> <ul style="list-style-type: none"> <li>- Based on DSP Based Digital Algorithms</li> <li>- Password protected</li> <li>- 20x4 LCD Display</li> <li>- Power system frequency 50Hz</li> <li>- Configurable to Dual Slope Characteristic</li> <li>- Be able to demonstrate Transformer Differential Protection</li> <li>- Capable to store history of last 20 Events</li> <li>- Capable to store disturbance record of last 10 Events</li> <li>- Configurable to Pre and Post Fault Cycles</li> <li>- With draw-out facility with inbuilt CT shorting</li> </ul>	01 pcs
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*Prakash*  
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28/2/26

**प्राचार्य का कार्यालय**  
**राजकीय पोलिटेकनिक, कटिहार**

पत्रांक:- 201/...../कटिहार,

दिनांक:- 20/03/2026

**सूचना**

संस्थान के विद्युत अभियंत्रण विभाग के प्रयोगशाला में उपकरणों के क्रय हेतु Quotation आमंत्रित की जाती है। आपूर्तिकर्ता दिनांक-07/03/2026 तक ऑनलाइन माध्यम से संस्थान के email Id-principal124gpkatihar@gmail.com पर Quotation प्रेषित कर सकते हैं एवं साथ-ही-साथ Offline mode के माध्यम से संस्थान में जमा करा सकते हैं। उपकरणों की विवरणी निम्नलिखित है :-

S.N.	Items	Specification	Qty
1	Power Mosfet Trainer kit	<p>SCOPE OF LEARNING: Study of V-I Characteristics of MOSFET Study of Gate Drive Characteristics of MOSFET</p> <p>TECHNICAL SPECIFICATIONS: Digital Meters: Voltmeter 20VDC. Ammeter 200mA DC. Voltmeter 200V DC. Power Supplies: DC Supply IC Regulated 0-10V DC, 150mA. DC Supply IC Regulated 0-30V DC, 150mA. Operated on Mains power 230V, 50Hz +10% Components are mounted on the panels are: MOSFET 1RF540 (2Nos.) Voltage Control through Potentiometer. PWM Pulse Generator Circuit. Frequency Control Through Potentiometer PWM Control Through Potentiometer Resistors for Load</p> <p>SALIENT FEATURES: Protection Cover Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. Fuse for Short Circuit protection Instruction manual. Connections are brought out through 2mm Colored Sockets. Patch Cords 2mm. The trainer is housed in ABS Plastic cabinet. Size of the trainer set 12"x8"</p>	05 Pcs
2	IGBT Trainer kit	<p>SCOPE OF LEARNING: Study of V-I Characteristics of IGBT Study of Gate Drive Characteristics of IGBT</p> <p>TECHNICAL SPECIFICATIONS: Digital Meters: Voltmeter 20VDC. Ammeter 200mA DC.</p>	05 Pcs



		<p>Voltmeter 200V DC.</p> <p>Power Supplies:  DC Supply IC Regulated 0-10V DC, 150mA.  DC Supply IC Regulated 0-30V DC, 150mA.  Operated on Mains power 230V, 50Hz +10%  Components are mounted on the panels are:  IGBT 25N120 (2Nos.).  Voltage Control through Potentiometer.  PWM Pulse Generator Circuit.  Frequency Control Through Potentiometer  PWM Control Through Potentiometer  Resistors for Load  SALIENT FEATURES:  Protection Cover  Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.  Fuse for Short Circuit protection  Instruction manual.  Connections are brought out through 2mm Colored Sockets.  Patch Cords 2mm.  The trainer is housed in ABS Plastic cabinet.  Size of the trainer set 12"x8"</p>	
3	SCR Firing kit	<p>SPECIFICATIONS</p> <p>Power supplies:  Isolated AC Power Supply: 12-0-12V, 250mA  Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.  Fuse for Short Circuit protection  Components are mounted on the panels are:  SCR TYN604  2 Bit SCR Assembly  Load Through Rotary Switch  Firing Techniques:  R Firing  RC Firing  UJT Firing  Salient Features:  Instruction manual.  Operated on Mains power 230V, 50Hz.  Patch Cords 2mm.  Supply provided through the 3 pin computer socket with appropriate fuse  The trainer is housed in ABS Plastic cabinet.  Size of the trainer set 12"x10"</p>	05 Pcs
4	Ujt firing circuit	<p>SPECIFICATIONS</p> <p>Power supplies:  Isolated AC Power Supply 0-12, 500mA  Isolated AC Power Supply 0-12, 250mA</p>	05 Pcs

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		<p>Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. Fuse for Short Circuit protection Components are mounted on the panels are: SCR TYN604 Assembly (2Bit) Resistive Load (12V Lamp) UJT 2N2646 Pulse Transformer:1:1:1 Firing Angle Control through Potentiometer Diodes, Capacitors and Resistors Firing Techniques: UJT Firing Salient Features: Instruction manual. Operated on Mains power 230V, 50HZ. Patch Cords 4mm. Supply provided through the 3 pin computer socket with appropriate fuse The trainer is housed in ABS Plastic cabinet. Size of the trainer set 12"x8"</p>	
5	Force commutation kit	<p>Power supplies: Rectified DC Source: +12V,250mA Operated on Mains power 230V, 50HZ +10% Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. Fuse for Short Circuit protection Components are mounted on the panels are: SCR TYN604 Capacitors Inductors Led Firing Techniques: Pulse Generator (Triggering) 2Nos. Mono Pulse Generator Salient Features: Instruction manual. Operated on Mains power 230V, 50HZ. Patch Cords 2mm. Supply provided through the 3 pin computer socket with appropriate fuse The trainer is housed in ABS Plastic cabinet. Size of the trainer set 13"x11"</p>	05 Pcs
6	Dual converter thyristor kit	<p>SCOPE OF LEARNING: SCR Single Phase Dual Converter ing Firing Techniques with R and RL Load. TECHNICAL SPECIFICATIONS: Power Supplies: Power Supply +15Vat 150mA Isolated Supply 0-220V/110V/24V AT 1A.</p>	05 Pcs

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		<p>Operated on Mains power 230V, 50Hz + 10%</p> <p>Digital Meters:  Voltmeter 2000V AC  Voltmeter 2000V DC  Ammeter 2A DC</p> <p>Components are mounted on the panels are:  SCR TYN604 (8Nos.)  Diode BA159  AC Phase Control by Gate Control Firing Circuit.  Snubber Circuit.</p> <p>LOAD:  1A Inductive Load.  Resistive Load 200hm, 20W.  Lamp Load 230V,60W</p> <p>SALIENT FEATURES:  10:1 Potential Divider for CRO  Protection Cover.  Front panel built with high class insulated Printed Circuit Board sheet with printed circuits and symbols.  Instruction manual.  Patch Cords 2mm and 4mm Both.  High Voltage Test Points are Provided With 4mm Safety Sockets  The trainer is housed in Metal cabinet.  Size of the trainer set 15"x11"</p>	
7	<p>Triac  Characteristics  kit</p>	<p>TECHNICAL SPECIFICATIONS:  Power Supplies:  DC Power Supply 5V/15V at 150mA Switch Selectable  DC Power Supply 15V/30V at 150mA Switch Selectable  Operated on Mains power 230V, 50Hz + 10%</p> <p>Analog Meters:  Dual Range Voltmeter-5V/15V  Dual Range Voltmeter-25V/50V  Dual Range Ammeter 250uA/25mA  Dual Range Ammeter 5mA/50mA  Meter ranges are selectable with toggle switches</p> <p>Components are mounted on the panels are:  POWER DIODE 8A  POWER TRANSISTOR 2N3055  MCT-2E  Diac DB3  IGBT IRGBC20S  SCR TYN604  TRIAC BT136  UJT 2N2646  FET BFW10  MOSFET IRF540</p> <p>SALIENT FEATURES:  Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.</p>	<p>05  Pcs</p>

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		<p>Instruction manual. Patch Cords 4mm Both. High Voltage Test Points are Provided With 4mm Sockets The trainer is housed in ABS Plastic Cabinet. Size of the trainer set 12"x10"</p>	
8	Cycloconverter training kit step up and step down	<p>SCOPE OF LEARNING: Study of Single Phase Cycloconverter TECHNICAL SPECIFICATIONS: Power supplies: Power Supply +15Vat 150mA Isolated Supply 230V/24-0-24 AT 1A. Operated on Mains power 230V, 50Hz +10% Components are mounted on the panels are: SCR TYN604 (4Nos.) Gate Control Firing Circuit Frequency Control Using Rotary Switch (0-180 Degree) Pulse Transformer 1:1:1 Load RC Snubber Circuit. SALIENT FEATURES: Protection Cover Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols. Fuse for Short Circuit protection Instruction manual. Connections are brought out through 4mm Colored Safety Sockets. Patch Cords 4mm. The trainer is housed in Metal cabinet. Size of the trainer set 18"x12"</p>	05 Pcs

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28-12-26

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28/12/26