

प्राचार्य का कार्यालय
राजकीय पोलिटेकनिक, कटिहार

पत्रांक:- 202/...../कटिहार,

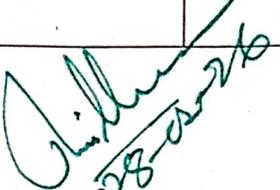
दिनांक:- 28/02/2026

सूचना

संस्थान के वैधुतिकी 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 है एवं साथ-ही-साथ Offline mode के माध्यम से संस्थान में जमा करा सकते है। उपकरणों की विवरणी निम्नलिखित है :-

S.N.	Items	Specification	Qty
1	PID Controller Kit	<p>PID CONTROLLER</p> <p>Technical Specification :PID -action study on DSO 50 MHz Digital Storage Oscilloscope with 20MHz Function Generator and Bode Plot analysis Bandwidth should be 50 MHz Number of Channel should be 2 Analog Channel Maximum Sample Rate should be 1 GSa/s on all Channels or better Time Base Range should be 5ns/div to 50 sec/div or better Time base accuracy should be 50 ppm or higher , Memory Depth should be 200kpts or higher , Waveform update Rate should be $\geq 100,000$ or higher Vertical Sensitivity range should be $500\mu\text{V}/\text{Div}$ to $10 \text{ V}/\text{div}$ Trigger Selection should have Edge, pulse width, video, pattern/state and Digital Voltmeter and Frequency Counter should be available. Digital voltmeter and 5 – digit frequency counter upto scope bandwidth should be available, inbuilt array of training signals with lab guide Inbuilt Function Generator of 20MHz function Generator should available which includes Bode Plot Features and analysis upto 20MHz , Function Generator should have Frequency Range Sine Wave (0.1Hz to 20MHz) and Square, pulse wave (0.1Hz to 10MHz) , Amplitude 2mVpp to 20Vpp into Hi Z and 1mVpp to 10Vpp into 50Ω.Function Generator should have AM, FM & FSK modulation feature PC Interface should available with USB and LAN Interface and compatible software to connect and control the instrument Warranty Should have standard 3 Years warranty with 5 years calibration interval</p> <p>Manufacturer should have its own UKAS ACCREDITED Lab, ISO/IEC 17025:2017 Certified and NABL accredited calibration Lab and service center in India.Simulated blocks for flexible System .Time delay (transportation lag) block , Synchronised square and triangular source for flicker free display , Simulated blocks – dead time (transportation lag),integrator, time</p>	05 Pcs

		constants, error detector and gain , PID Controller (configurable as P, PI, PD or PID)Proportional Band: 5% to 50% (Gain 2-20)Integral time: 10msec - 100msecDerivative time: 2- 20msec , Built-in signal sourcesSet value: -1V to +1V Square wave: 1V p-p (min.) at 40Hz (typical)Triangular wave: 1V p-p (min.) at 40Hz (typical) , Built-in 3 1/2 digit DVM for d.c. measurements , Built-in IC regulated power supply , 220V±10%, 50Hz mains operation , Detailed literature and patch chords included	
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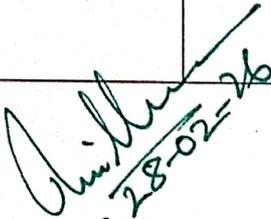
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दिनांक:- 28/02/2026

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S.N.	Items	Specification	Qty
1	ON Off Control Kit Temperature Sensor	SCOPE OF LEARNING: Thermocouple as Temperature Transducer, Transducer in PID Temperature System TECHNICAL SPECIFICATIONS: Digital Meters: Voltmeter 200mV/2V DC. Temperature Meter (in Deg Calcius) Ammeter (in Ampere) Power Supplies: DC Supply IC Regulated +12V DC, 150mA. Operated on Mains power 230V, 50Hz +10% Components are mounted on the panels are: Thermocouple J type Variable Resistor For Zero Setting and Gain Setting Variable Resistor For P,I,D Setting Electrical Kettle as Heating Element. Thermometer Heating Oven Arrangement for PID System 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 2mm Colored Sockets. Patch Cords 2mm. The trainer is housed in ABS Plastic cabinet. Size of the trainer set 12"x18"	04 Pcs


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पत्रांक:- 254 /कटिहार,

दिनांक:- 28/02/2026

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S.N.	Items	Specification	Qty
1	AC Servo Motor Speed Torque Characteristics kit	<p>Ac Position Control</p> <p>Technical Specification: The present unit is designed around a 12 V ac servomotor and exposes the basic characteristics and dynamics of a position control system. Besides introducing the basic features like balanced modulation of the error signal, phasereversal around the set point and phase difference between the reference and control phases of the motor, the experiment involves study of the step response of the closed loop system. Being amechanical system the response is too slow for a comfortable viewing on a CRO /DSO Analogue channel50 MHz Digital Storage Oscilloscope with 20MHz Function Generator and Bode Plot analysis Bandwidth should be 50 MHz Number of Channel should be 2 Analog Channel Maximum Sample Rate should be 1 GSa/s on all Channels or better Time Base Range should be 5ns/div to 50 sec/div or better Time base accuracy should be 50 ppm or higher , Memory Depth should be 200kpts or higher , Waveform update Rate should be ≥ 100,000 or higher Vertical Sensitivity range should be 500µV/Div to 10 V/div Trigger Selection should have Edge, pulse width, video, pattern/state and Digital Voltmeter and Frequency Counter should be available. Digital voltmeter and 5 – digit frequency counter upto scope bandwidth should be available,</p> <p>inbuilt array of training signals with lab guide Inbuilt Function Generator of 20MHz function Generator should available which includes Bode Plot Features and analysis upto 20MHz , Function Generator should have Frequency Range Sine Wave (0.1Hz to 20MHz) and Square, pulse wave (0.1Hz to 10MHz) , Amplitude 2mVpp to 20Vpp into Hi Z and 1mVpp to 10Vpp into 50Ω. Function Generator should have AM, FM & FSK modulation feature PC Interface should available with USB and LAN Interface and compatible software to connect and control the instrument Warranty Should have standard 3 Years warranty with 5 years calibration interval Manufacturer should have its own UKAS ACCREDITED</p>	04 Pcs

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		Lab, ISO/IEC 17025:2017 Certified and NABL accredited calibration Lab and service center in India., except on an expensive storage oscilloscope. A microprocessor-based waveform capture/ display card in the unit stores the step response in real time and displays the same once steady state is reached. 2-phase servomotor – 12volt/phase, 50Hz, 10 watt , Power amplifier for driving , Servo potentiometer type error detector , In-built 10.00 volt	
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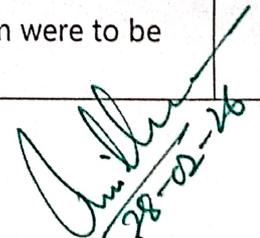
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दिनांक:- 28/02/2026

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S.N.	Items	Specification	Qty
1	Synchronc Transmitter & Receiver	<p>Synchro Transmitter</p> <p>Technical Specification: - Synchro transmitter-receiver pair with calibrated dials . Locking system for receiver rotor , Receiver use as control transformer , Built-in balanced demodulator circuit , Panel meter for ac/dc voltages , Only an external CRO required</p> <p>List of Experiment:-</p> <p>Basic characteristics study - stator voltages as a function of the rotor angle using the built-in ac , voltmeter. This shows the space variation of the three voltages, VS1S2, VS2S3, and VS3S1, causing , rotation of the resultant magnetization in the stator which is fundamental to the error detection process.</p> <p>Operation and error study of the transmitter-receiver pair as a simple open loop position control at a very low torque. This is a rarely used application but is used to demonstrate the direction of the resultant magnetic field in the receiver.</p> <p>Plotting the error voltage output as a function of the transmitter rotor angle with the receiver rotor locked.</p> <p>Observing the 180° phase reversal around the zero error is significant as this the basic method through which the direction of the error is detected in an ac system</p> <p>Use of balanced demodulator to develop dc error signal with appropriate polarity and compare it with the ac error. This block would be needed if a mixed system were to be designed using both dc and ac components.</p>	03 Pcs


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