

REPAIR AND MAINTENANCE OF GCT SHAHMANSOOR SWABI DAE CIVIL GCT SWABI

SOR for (Electrical Technology DAE) GCT, SWABI

PLEASE ORGANIZE YOUR BID AS FOLLOWS;

- 1) Bidder can bid for items as per Schedule of requirement published on KPTEVTA Website and having specialty /experience as described in BSD.
- 2) The Items/Equipment must have Minimum Specification acceptable to the Technical Committee of KP-TEVTA; however the higher specification may be accepted if within the financial limit.
- 3) All bidders must submit the relevant details of bid/proposals duly labelled by a permanent marker with the name of bidder and also to provide documents in soft copies (MS WORD format) on USB drive
- 4) The Supplier shall write in bold & legible letters "Name of the Project" on the envelope.
- 5) The supplier will submit the tender documents properly Computer Typed and each page shall be endorsed and numbered along with terms and condition issued by the KP-TEVTA dully signed by the authorized personnel with company seal; otherwise the bid will not be accepted.
- 6) The bidder will be responsible for standard local warranty given by the manufacturer where applicable

Sr. No.	Module/Trainer/Description	Qty
02	<p>AC Fundamentals Trainer along with module and base unit to perform following topics:</p> <ul style="list-style-type: none"> • Measuring AC Voltage, Current and Impedance • Measuring and Setting Frequency • Inductors, Phase Angle, Series vs Parallel, Inductive Reactance and Impedance • Series and Parallel RL Circuits • Electromagnets, Solenoid, Relay • Transformer Windings, Mutual Inductance, Turns and Voltage Ratios, Secondary Loading • Capacitors, Series vs Parallel, Capacitive Reactance • Series and Parallel RC Circuits • RC Time Constants • RC/RL Wave shapes • Series and Parallel RLC Circuits • Series Resonant Circuits • Q and Bandwidth of a Series/Parallel RLC Circuit • Resonant Frequency in a Parallel RLC Circuit • Power Division and Power Factor • Filters: Low-Pass, High Pass, Band-Pass and Band-Stop <p>With complete accessories and instruction manual)</p>	01

11	<p>AC Machines Trainers: (300watts or above)</p> <ul style="list-style-type: none"> • Single phase induction motor • Single phase capacitor start motor • Single phase capacitor run motor • Single phase shaded pole motor (30watt or above) • Single phase repulsion motor • Universal motor • 3 phase motors. <ul style="list-style-type: none"> ➤ Squirrel cage ➤ Phase wound ➤ Double speed • 3 phase synchronous machine • TECHO meter (Optical) • Resistive, capacitive, and inductive loads • Motor/generator control unit to Operate above machines • Complete measuring instruments and related accessories • AC volt, ampere, Active power, reactive power, inductive power, power factor, frequency, meters • Variable frequency drive control unit <p>(With complete accessories and instruction manual)</p>	01
17	<p>Analog Dual Trace Oscilloscope, 40 MHz: The module should include CH 1, CH 2, CHOP, and ALT display modes, an operating instruction manual, one line cord, and two low-capacitance probes.</p> <p>(With complete accessories and instruction manual)</p>	01
21	<p>Digital Multimeter with dual measurement displays (Bench Type) DC Voltage :100 mV ~ 1000V DC Current: 100μA ~ 10A Resistance : 100Ω ~ 100 MΩ AC Voltage: 100mV ~ 750V AC Current: 100mA ~ 10A Power Source: 230 V</p> <p>(With all accessories mention in the brochure and instructional manual)</p>	01
22	<p>Digital Clamp on meter: AC Amp: 200A AC Vtg: 600V DC Vtg: 600V Ohms: 20MΩ</p> <p>(With complete accessories and instruction manual)</p>	02
23	<p>Digital Multimeter (Hand Held): DC Voltage : 1000 V DC Current: 10A</p>	02

	Resistance : 20 MΩ AC Voltage: 600 V AC Current: 10 A (With complete accessories and instruction manual)	
26	<p>Single and 3-phase Transformer Trainer:</p> <ul style="list-style-type: none"> ➤ Input single phase: 220~260vac, 2amp ➤ Input 3 phase: Phase ~ phase 380 ~ 440vac, 2amp (phase ~ neutral) ➤ Output single phase: 80%, 90%, 100%, and 110% ➤ Output 3 phase: 80%, 90%, 100%, and 110%. <ul style="list-style-type: none"> • Distribution Transformer • Single-Phase Transformers Supplying Single-Phase Loads • Single-Phase Paralleling • 3-Phase Paralleling • Efficiency calculation of each transformer • Open/no load test • Load/Short circuit • Polarity test • Three-Phase Banking of Single-Phase Transformers 	01

ASSISTANT DIRECTOR (PROCUREMENT)