

K.E.SOCIETY' S
RAJARAMBAPU INSTITUTE OF TECHNOLOGY
RAJARAMNAGAR



TEQIP

DEPARTMENT OF ELECTRICAL ENGINEERING

No. / Category of quotation: - RIT/TEQIP/E5/ Electrical/May 2005-06

**PROCUREMENT OF GOODS
UNDER
NATIONAL SHOPPING
PROCEDURES**

Name of the Department: **Electrical Engineering**

Name of the Lab: Measurement & Instrumentation

*(For Contracts valued less than the
equivalent of US \$50,000 each)*

No. / Category of quotation: - RIT/TEQIP/E5/ Electrical/May 2005-06/01

1. Supply of equipments for Measurement & Instrumentation Laboratory in Electrical Engineering Department

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery
Dual Storage Oscilloscope:	60MHz, Make Scientific, 2 channel, monochrome LCD sampling rate 1G S/s, Built in FET analyzer, Automatic measurement, probe checking wizard, Advanced triggering, Time base accuracy 50 PPM, memory for waveforms	05	One month	Electrical Engg. Dept.
Experimental kit for Multiflexer	--	01	-do-	-do-
Experimental kit for Magnitude Comparator	--	01	-do-	-do-
Experimental kit for DC Potentiometer	--	01	-do-	-do-
Experimental kit for Anderson' s Bridge	--	01	-do-	-do-
Experimental kit for Wein Bridge	--	01	-do-	-do-
Experimental kit for Superposition Theorem	--	01	-do-	-do-
Experimental kit for OP-Amp as Half & Full Wave Rectifier	--	01	-do-	-do-
Current Transformer	5-10-25-50/ 5A mounted in box with terminals	01	-do-	-do-
Potential Transformer	415/ 230 V mounted in box with terminals	01	-do-	-do-
Experimental kit for AC Potentiometer	--	01	-do-	-do-
PLC Trainer kit	--	01	-do-	-do-
2 MHz Function Generator	See Annexure 1	02	-do-	-do-
Signal Conditioning Trainer kit	--	01	-do-	-do-

Annexure 1
2 MHz Function Generator with AM and FM

Technical Specifications	
OUTPUT CHARACTERISTICS	
Output Waveform	Sine, Triangle, Square, Ramp, Pulse, AM Balance, AM Standard, FM, ASK, FSK, PWM Sweep and DC.
Output Level	20V p-p in open circuit. 10V p-p in 50Ω load.
Output Attenuator	20, 40 dB ±1dB and 20dB continuously variable.
Output Impedance	50Ω ±5%
FREQUENCY CHARACTERISTIC	
Frequency Range	0.02Hz - 2MHz in the 8 ranges.
Frequency Accuracy	±0.1%, +1 Digit.
WAVE FORM CHARACTERISTIC	
Square Rise & Fall Time	≤ 50 ns
Symmetry / Duty Cycle	15% to 85% variable.
Triangle Linearity	±5% (typically)
Sine Wave Distortion	< 1% (typically)
Amplitude Flatness	0.2 dB up to 200KHz, 0.5 dB above 200KHz.
SWEEP CHARACTERISTICS	
Sweep Type	Linear.
Sweep Range	25:1
Sweep Rate	20ms to 4 sec. Variable
MODULATION CHARACTERISTICS	
Auxiliary Function Generator For Internal Modulation	
Wave Forms	Sine, Square, Triangle.
Frequency Range	2Hz to 20KHz
Output Level	10V p-p
AMPLITUDE MODULATION	
Mode	Standard / Balance
Carrier Frequency B.W	Up to 1MHz
Int. Mod. Frequency	2Hz to 20KHz

Int. Mod. Index	30% to 100%
Ext. Modulation	100% for 2V p-p
Ext. Mod. Frequency	DC to 20KHz
FREQUENCY MODULATION	
Deviation	0 to 10% of the range
Ext. Modulation	10% for 2V p-p
Ext. Mod. Frequency	DC to 20KHz
FREQUENCY COUNTER	
Mode	Main / Auxiliary Generator.
Display	4-digit display.
Freq. Range	0.2 Hz to 2MHz
Display Accuracy	±1% +1 digit

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**PROCUREMENT OF GOODS
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Name of the Department: **Electrical Engineering**

Name of the Lab: Digital Electronics

*(For Contracts valued less than the
equivalent of US \$50,000 each)*

No. / Category of quotation: - RIT/TEQIP/E5/ Electrical/May 2005-06/02

1. Supply of equipments for Digital Electronics Laboratory in Electrical Engineering Department

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery
Ripple Counter Trainer kit	--	01	One month	Electrical Engg. Dept.
Decimal Adder Trainer kit	--	01	-do-	-do-
Magnitude Comparator Trainer kit	--	01	-do-	-do-

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**PROCUREMENT OF GOODS
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Name of the Department: **Electrical Engineering**

Name of the Lab: Electronic Circuit Theory

*(For Contracts valued less than the
equivalent of US \$50,000 each)*

No. / Category of quotation: - RIT/TEQIP/E5/ Electrical/May 2005-06/03

1. Supply of equipments for **Electronic Circuit Theory Laboratory in Electrical Engineering Department**

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery
Transmission line Trainer kit	--	01	One month	Electrical Engg. Dept
FET Trainer kit	--	01	-do-	-do-
Amplifier model Class A, B, C, D Trainer kit	--	01	-do-	-do-
FET Amplifier (Multistage) Trainer kit	--	01	-do-	-do-
Voltage Regulator (Series & Parallel)	--	01	-do-	-do-

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**PROCUREMENT OF GOODS
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Name of the Department: **Electrical Engineering**

Name of the Lab: Power Electronics

*(For Contracts valued less than the
equivalent of US \$50,000 each)*

1. Supply of equipments for Power Electronics Laboratory in Electrical Engineering Department

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery
Speed control of DC motor by Chopper circuit	230V, 5A with & without freewheel	01	One month	Electrical Engg. Dept
Speed control of DC motor by Converter	230V, 5A with & without freewheel	01	-do-	-do-
Speed control of AC motor by Inverter	--	01	-do-	-do-
Speed control of 3-phase Induction motor by 3-phase voltage regulator	--	01	-do-	-do-
Speed control of 3-phase Induction motor by 3-phase cycloconverter	--	01	-do-	-do-
3-phase half-wave converter	230V, 5A with & without freewheel	01	-do-	-do-
3-phase full-wave converter	230V, 5A with & without freewheel	01	-do-	-do-

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**PROCUREMENT OF GOODS
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Name of the Department: **Electrical Engineering**

Name of the Lab: Power System

*(For Contracts valued less than the
equivalent of US \$50,000 each)*

No. / Category of quotation: - RIT/TEQIP/E5/ Electrical/May 2005-06/05

1. Supply of equipments for Power System Laboratory in Electrical Engineering Department

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery
Power Transmission Line Trainer kit	3.3 kV	01	One month	Electrical Engg. Dept
Capacitor Test Bench kit (DC)	--	01	-do-	-do-

TERMS AND CONDITIONS

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 250 Million towards the cost of the **TEQIP Project** and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. Bid Price

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
 - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - d) The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.

5. Validity of Quotation

Quotation shall remain valid for a period not less than two weeks after the deadline date specified for submission.

6. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) are properly signed ; and
- (b) confirm to the terms and conditions, and specifications.

The Quotations would be evaluated for all the items together in each schedule.

7. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order
8. Payment shall be made immediately after delivery and satisfactory demonstration and training to the staff along with the manuals.
9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
10. You are requested to provide your offer latest by **12.00 noon on 27/06/2005**.
11. We look forward to receiving your quotations and thank you for your interest in this project.

(Purchaser)

The Principal
RIT, Sakharale
Tal- Walwa, Dist. Sangli, (M.S.)
Ph. +91- 2342- 220329
Fax. +91- 2342- 220329

FORMAT OF QUOTATION *

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words

Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier