

## Rajiv Gandhi Institute of Technology, Kottayam

No. D3/825/16/RIT

Dated: 03.05.2017

### TENDER SCHEDULE

|   |   |
|---|---|
| Superscription  | : Tender No.D3/825/16, Purchase of a current probe with current amplifier for the use of EEE Department                                 |
| Last date and time receipt of tender  | : 13/06/2017 11 a.m   |
| Date and time of opening of tender  | : 13/06/2016 2 p.m  |
| Last date and time of sale of tender form   | : 12/06/2016 2 p.m  |
| Date upto which the rates are to be firm  | : 31/03/2018  |
| Cost of tender form   | : <b>Original Rs.630/- including 5% VAT</b><br><b>Duplicate Rs.315/- " "</b><br><b>By Post Rs.665/- incldes VAT&amp; Postal charges</b> |
| Address of the Officer from whom Tender Forms are to be obtained to whom tenders are to be send | : THE PRINCIPAL,<br>RAJIV GANDHI INSTITUTE OF TECHNOLOGY,<br>VELLOOR P.O,<br>PAMPADY, KOTTAYAM,<br>KERALA,<br>PIN - 686 501             |

### List of Items Required

| <u>Details of items</u> | <u>Quantity</u> |
|-------------------------|-----------------|
| 1 List attached         |                 |

PRINCIPAL

List of items required

| Sl.No. | Item                                 | Specification                   | Quantity |
|--------|--------------------------------------|---------------------------------|----------|
| 1      | Current probe with current amplifier | Detailed specification attached | 1        |

Current probe with current amplifier

**Specifications:**

Bandwidth: DC — 100 MHz

Rise time:  $\leq 3.5$  ns

DC accuracy :  $\pm 3\%$  of reading

DC accuracy, typical :  $\pm 1\%$  of reading

Lowest measurable current (at  $\pm 3\%$  accuracy at DC) Scope set to 1 mV/div and 20

MHz BW limited: 1 mA

Maximum Amp-Second product, typical (Based on amplifier range setting):

50 A $\cdot\mu$ s — A/V

500 A $\cdot\mu$ s — 10 A/V

Maximum wire voltage, bare insulated:

150 V CAT II

300 V CAT II

AC-coupling low-frequency Bandwidth, typical (Low pass — 3 dB point):  $< 7$  Hz

Displayed RMS noise, typical (at 20 MHz bandwidth limit):  $250 \leq 2$   $\mu$ .ARMS

Signal delay (to output BNC): 17 ns

Insertion impedance:

0.11  $\Omega$  at 1 MHz

0.12  $\Omega$  at 10 MHz

0.35  $\Omega$  at 50 MHz

0.7  $\Omega$  at 100 MHz

**Maximum current ratings**

High-current sensitivity:

Range: 10 A/V

DC (continuous) : 30 A

RMS (sinusoidal) :21.2 A

Peak :50 A

Low-current sensitivity:

Range: 1 A/V

DC (continuous): 5 A

RMS (sinusoidal) :3.5 A

Peak: 50 A

**Temperature:**

Operating: 0 °C to +50 °C (32 °F to 122 °F)

Nonoperating: -40 °C to +75 °C (-40 °F to 167 °F)

**Accessories**

Cover, large probe protective

Case, transit; current measurement systems

50 Ω feed through termination

50 Ω BNC-to-BNC coaxial cable

Interface cable for current amplifier to Tektronix TDS series oscilloscopes

Current loop, 1 turn, 50 Ω , BNC connector

User manual

**Warranty**

One year (onsite)