

**RAJIV GANDHI INSTITUTE OF TECHNOLOGY, KOTTAYAM**

No. D1/7106/17/RIT

Dated: 17.10.2017

TENDER SCHEDULE

Superscription : Tender No.D1/7106/17/RIT, Supply of Arbitrary generator and Power supply

Last date and time receipt of tender : 16/11/2017. 01. pm

Date and time of opening of tender : 16/11/2017. 02. pm

Last date and time of sale of tender form : 15/11/2017. 02. pm

Date upto which the rates are to be firm : 31/03/2018

Cost of tender form : **Original Rs.472/- including GST**  
**Duplicate Rs.236/- do**  
**By Post Rs.507/-**

Address of the Officer from whom Tender : THE PRINCIPAL,  
Forms are to be obtained to whom tenders are RAJIV GANDHI INSTITUTE OF TECHNOLOGY,  
to be send KOTTAYAM  
VELLOR.P.O, PAMPADY  
KERALA,  
PIN - 686501

List of Items Required

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

PRINCIPAL

**List of Required items**

SI No	Item with Specification	Quantity
1	<p><b>25 MHz, 2 Channel Arbitrary Generator</b>            Frequency : Sine 1 <math>\mu</math>Hz to 25 MHz , No. of channels : 2            Waveforms : Sine, Square, Pulse, Ramp, Noise, DC and 45 FU arbitrary waveforms            Square : 1 <math>\mu</math>Hz to 12.5 MHz, Rise/Fall time : &lt;12ns, Jitter (RMS) : &lt;1ns            Ramp : 1 <math>\mu</math>Hz to 1 MHz, Linearity : <math>\leq</math>0.1 % of peak output, Symmetry : 0.0% to 100.0%            Pulse : 1 MHz to 12.5 MHz, Pulse width : 40.00 ns to 999,000 s            Pulse duty : &lt;1 MHz, 0.001% to 99.999% (limitations of pulse duty width apply) 1 MHz to 12.5MHz, 50% fixed            Edge transition time : &lt;12 ns fixed, Resolution : 10pS or 5 digits, Jitter : &lt;1nS            Overshoot : &lt;5%            Noise Bandwidth : (-3 dB) 25 MHz, Noise Type : White Gaussian            DC (into 50 <math>\Omega</math>) : -5 V to +5 V, -10 to 10 at High Z            Arbitrary Waveform : 1<math>\mu</math>Hz to 10 MHz            Effective analog bandwidth : 30MHz            Non-volatile memory : 64 MByte            Memory Sample rate : 2 to 8192: 125 MS/s            Vertical resolution : 14 bits            Amplitude : @50 <math>\Omega</math> load : 1 mVp-p to 10 Vp-p            : @ High impedance mode : 2mVp-p to 20 Vp-p            Amplitude Resolution : 1 mVp-p, 1 mVRMS, or 4 digits            DC offset : 10 Vpk at 50<math>\Omega</math>/20Vpk at High impedance            Frequency Resolution : 1 <math>\mu</math>Hz or 12 digits            Dual channel : Phase and frequency synchronisation must be available between channels            Warranty : 1 Years standard+4 Years additional warranty coverage.</p>	2
2	<p><b>Linear DC Power Supply</b>            Out put voltage : 0-32V, Output current : 0-6A,            Load regulation : Voltage <math>\leq</math>0.04% + 6mV, Current <math>\leq</math>0.1% + 2 mA typical            Line Regulation : Voltage <math>\leq</math>0.01% + 5mV, Current <math>\leq</math>0.1% + 2 mA typical            Ripple and Noise : Voltage <math>\leq</math>1 mVRMS / 3 mVp-p, Current <math>\leq</math>5 mARMS            Setting Resolution : Voltage 10 mV, Current 10 mA            Setting Accuracy : Voltage <math>\leq</math>0.05% + 10 mV, Current <math>\leq</math>0.2% + 10 mA            Readback Resolution : Voltage : &lt;20 V : <math>\leq</math>10 mV, <math>\geq</math>20 V: 100 mV, Current : 10 mA            Readback Accuracy : Voltage : &lt;20 V : <math>\leq</math>0.05% + 15 mV, <math>\geq</math>20 V : <math>\leq</math>0.05% +120mV            Current : <math>\leq</math>0.1% + 15 mA            Floating Voltage Rating : Up to 100 V (DC + peak AC) between earth ground and any output terminal            Display : Vacuum fluorescent display with 3 digit each for current and voltage indication            Memory : 20 setup memories            Setting : Numeric pads and arrows keys is must, Vset and Iset keys should be available            Input : 198 VRMS to 264 VRMS, 47 to 63Hz            Power consumption : 700 VA            Items to be supplied : Power supply, line cord, user manual, Traceable Certificate of Calibration, and documentation CD (includes user manuals and technical reference)</p>	2

Warranty : 1+2 Years standard