

INSTITUTE OF HUMAN RESOURCES DEVELOPMENT
PRAJEO TOWERS, VAZHUTHACAUD,
THIRUVANANTHAPURAM - 14.

No.A5/11960/2012/HRD

Dated:22nd April, 2013

TENDER NOTICE

Sealed Tenders are invited for the supply of following items as per schedule given below.

Sl No.	Name of item	Qty	Cost of tender form
1.	Digital storage oscilloscope 70 MHZ	130	Rs.8100/-+VAT 5 %
2.	Server computers	3	Rs.700/-+ VAT 5 %
Last date of sale of tender form		25.5.13, 3.00 pm	
Last date of receipt of filled up tender form		27.5.13, 4.00 PM	
Date of opening of tender		28.5.13, 11.00 AM	

Tender form can be obtained from the office on payment in cash or by DD in favour of Director IHRD. EMD is 1%. Tender form will be sent by post on remittance additional amount of Rs.30/-. For details contact Ph: 0471-2322985.

Sd/-
DIRECTOR

Approved for Issue


Superintendent

Specification of Server Computer

Server Two processors

Processor: Intel Xeon Quad Core

Configuration: Rack, CPU: Intel Xeon E5506 2.13 GHZ, 4MB L3 Cache 800,

Chipset: Intel 5500 or better, Memory: 8GB, 1067/1333 MHZ DDR3 RAM,

Hard disk drive : 3x 300 GB

10000 rpm SAS

Monitor 43.2 cm (17") TFT/ wide TFT 110 keys key board

Mouse – Rack mouted

DVD ROM – 8X or better DVD

Networking – Dual LAN (10/100/1000) NIC

3 year warranty on site.

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Specification for Digital Storage Oscilloscope

1	Digital / Real-Time /single shot Bandwidth	: 70MHz
2	Channels	: 2
3	Display	: QVGA Active Colour TFT, 5.7"
4	Display modes	: YT, XY and persistence : Off, 1 s, 2 s, 5 s, infinite
5	Display Types	: Dots, vectors.
6	Max Real-Time Sampling Rate	: 1.0GS/s on each channel
7	Record Length	: 2.5Kpoints
8	Vertical Resolution	: 8 bits
9	Vertical Sensitivity	: 2 mV to 5 V/div on all models with calibrated fine adjustment
10	Vertical Accuracy	: ±3% DC
11	Vertical Zoom	: Vertically expand or compress a live or stopped waveform
12	Vertical Settings	: 2mV- 5V/div with calibrated fine adjustment.
13	Maximum Input Voltage	: 300 V _{RMS} ; derated at 20 dB/decade above 100 kHz to 13 V _{pp} AC at 3 MHz
14	Time Base	: 5nS/div to 50S/div
15	Horizontal Zoom	: Horizontally expand or compress a live or stopped waveform
16	Time Base Accuracy:	: 50ppm
17	Vertical Settings	: 2mV- 5V/div with calibrated fine adjustment.
18	Position Range	: 2 mV to 200 mV/div +2 V
19	Input Coupling	: AC, DC, GND on all models
20	Input Impedance	: 1 MΩ in parallel with 20 pF
21	USB Ports	: USB host port on front panel supports USB flash drives
22	Acquisition Modes	: Sample, Peak Detect and Average
23	Peak Detect	: High-frequency and random glitch capture. Captures glitches as narrow as 12 ns (typical) at all time base settings from 5 μs/div to 50 s/div
24	Sample	: Sample data only
25	Average	: Waveform averaged, selectable 4, 16, 64, 128
26	Single Sequence	: Use the Single Sequence button to capture a single triggered acquisition sequence
27	Roll	: At acquisition time base settings of >100 ms/div
28	Triggered	: Auto, Normal, Single, ...

Edge (Rising/Falling)	Conventional level-driven trigger. Positive or negative slope on any channel. Coupling selections: AC, DC, Noise Reject, HF Reject, LF Reject
Video	Trigger on all lines or individual lines, odd/even or all fields from composite video, or broadcast standards (NTSC, PAL, SECAM)
Pulse Width (or glitch)	Trigger on a pulse width less than, greater than, equal to, or not equal to, a selectable time limit ranging from 33 ns to 10 s
30. Trigger Source	: CH1, CH2, Ext, Ext/5, AC Line
31. Trigger Signal frequency Readout	: Automatically activated from the Trigger source and displays the trigger signal frequency.
32. Waveform Math (Operators:	: FFT (with windows: Hanning, Flat top, Rectangular, and standard math functions
33. Autoset menu	: Also Detects wave shape of the
34. Trigger View	: Should display trigger signal while Trigger View button is depressed.
35. Cursor Measurements	: Amplitude & time: ΔT , $1/\Delta T$, ΔV
36. Non-Volatile Memory	: 4 waveform memories, 10 setup memories
37. Automatic Waveform Measurements	Period, Frequency, +Width, -Width, Rise Time, Fall Time, Max, Min, Peak-to-Peak, Mean, RMS, Cycle RMS, Cursor RMS, Duty Cycle, Phase, Delay.
38. Autorange	Automatically adjust vertical and/or horizontal oscilloscope settings when probe is moved from point to point, or when the signal
39. Peak Detect	High-frequency and random glitch capture. Captures glitches as narrow as 12 ns (typical) at all time base settings from 5 μ s/div to 50 s/div
40. Average	Waveform averaged, selectable: 4, 16, 64, 128
41. Probe Check Wizard	: Guides user to properly compensate the probe and confirm probe
42. PC Interface	: USB and PC Interface S/W
43. Warranty	: Life Time 10 years
44. Power	: 110-230V AC 50Hz
45. Accessories	10:1 Attenuation Probes - 2 Nos, User Manual etc

Sd/-
DIRECTOR

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KCC
SUPERINTENDENT