

S.No. 36 Equipment: Digital Delay/ Pulse Generator Specifications:

It is required to trigger several systems like cameras, lasers, and data acquisition systems based on a single trigger. For this purpose, we need to have pulses of specific delays and pulse durations to be generated. The number of pulse output channels must be 4, each having independent user controlled timings.

- **Pulse output channels:** 4 independent channels
- **Pulse delay generation;**
 - a. **Delay Range:** 0 to 1000 s or more
 - b. **Pulse Width Range:** 10 ns - 800 s or more
 - c. **Resolution:** Less than 300 ps
 - d. **Rms jitter (RMS):** Less than 250 ps
- **Internal Rate Generator;**
 - a. **Maximum Repetition Rate:** 10 MHz or more
 - b. **Jitter:** 100 ps or less
 - c. **Burst / Duty Cycle Mode:** Continuous or single shot
- **External Gate / Trigger Input;**
 - a. It should be able to trigger from **TTL pulse inputs**
 - b. **Rate:** DC to maximum 10 MHz
 - c. **Trigger delay:** Less than 150 ns
 - d. **Slope:** Trigger on rising or falling edge
 - e. **Impedance:** 10 M ohm
- **Outputs;**
 - a. **Output Impedance:** 50 ohms
 - b. **Rise time:** 3 ns or less
 - c. Must have TTL pulse outputs
 - d. User should have the option of controlling the pulse delay and pulse width for each channel independently
 - e. **Timing jitter:** 200 ps or less
- **Other conditions:**
 - Vendor must supply associated accessories like software, power adaptor, cable etc...
 - Provide compliance report giving values for each specification, where applicable.
 - Power supply: 200-240V, near 50Hz, Indian conditions
 - Warranty: quote for 2 years warranty

Optional items: Please quote for additional warranty option for 1 more year (after the first 2 years)

General Conditions:

1. List of Purchase orders or supply references to institute of National importance, PSU, or premier research institutes to be attached.