

**Department of Physics, Indian Institute of Technology
IIT.P.O. Madras-600 036**

Ref. No.

Date: 04 / 03 / 2018

PHY	2018	STORES	SSRK	001
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To,

Dear Sir,

Due date: 24 / 03 / 2018

Please find below the specifications for the equipment we require for purchase. Kindly send us a quotation by the due date mentioned above in a two bid format, a) technical bid and b) commercial bid.

DELAY LINE DETECTOR with ELECTRONICS

Minimum specification for (please quote unit for procure)

S. No	Parameter	Value
1	Basic parameters	40mm 2-dim Delay-Line-Detector incl. microchannel plates
2	L/D, thickness	60:1 or similar, 1.5mm thickness or nearest
3	Outer diameter (delay line)	50 mm or similar suitable for active diameter as mentioned below
4	Resistance matching	within 10% for chevron configuration,
5	MCP configuration	Chevron
6	Active diameter, Detector size (diameter and depth)	> 40 mm with quality linear diameter 40 mm. depth 30 mm
7	Overall detector dimensions	Over all diameter should not exceed 95mm and depth should be 30mm or nearest
Accessories		
8	3 channel amplifier	3-channel fast timing amplifier unit with adjustable gain and reconfigurable bandwidth/input impedance, inverting and noninverting outputs, 3HU case with external mains adapter (100-250V AC) Quantity: 2 nos.
9	Constant fraction discriminator with amplifier	2-channel standard front-end electronics amplifier and constant fraction discriminator) in a 3HU case with external mains adapter (100-250V AC) for RoentDek delay-line detectors in combination with FT4/12/16-TP -type connectors. Readout of a DLD anode requires two units (one per layer) and a FAMP1+CFD1c (or x) set for the MCP signal.
10	Single channel pre-amplifier	Single channel fast timing amplifier unit for amplification of fast detector signals (similar to FAMP8). Single box unit incl. external mains adapter (100-250V AC).
11	Warranty	2 years or more

Accessories

The vendor may quote accessories list above and any other suitable which may be required with the instrument mentioned for purchase together but will not be used for price comparison.

Please provide a clear warranty statement.

Quotation should be valid for at least 90 days.

Please send the quotations in a two-bid format – separate technical and financial bids. On or before the due date.

Please mark reference number on top of the quotation.

Yours Sincerely,

Sivarama Krishnan

Co-ordinator

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