

School of Biological Sciences Indian Institute of Technology Delhi

11-08-2011

Sealed quotations are invited for the purchase of one unit of “Liquid Scintillation counter” in the School of Biological Sciences from the PLN03/EBSC budget head with the following specifications and terms and conditions. Interested parties are requested to submit their sealed quotations in an envelope containing the financial and technical bids in separate sealed envelopes inside. The NIQ should be marked as “Quotation for Liquid Scintillation Counter” and addressed to Co-ordinator School of Biological Sciences, Attn. to Prof. C.S. Dey, and submitted in the reception, School of Biological Sciences, Formerly IBM Building, Block -1A, Indian Institute of technology Delhi, Hauz Khas, New Delhi – 110016 Latest by 4pm on August 25, 2011.

Specifications for Liquid Scintillation Counter

- 1) Automated plate reading Liquid Scintillation Counter, which can count atleast up to 4 ml vials (in addition to 2.5ml Eppendorf™ vials) in a single instrument.
- 2) Should count from the top of the plate, from the bottom of the plate, or from both top and bottom in coincidence for giving great versatility allowing gamma, beta, and luminescent counting in a wide variety of plate and tube formats. Should be able to count both in coincidence and Time Resolved –Liquid Scintillation Counting (TR-LSC) mode for best efficiency in clear bottom as well as opaque plates.
- 3) Should have twin phototube counting for greatest efficiency of counting while maintaining a minimal background count rate.
- 4) Should have a stacker/sample changer located wholly within the instrument to keep the sample cassettes protected and maintained at a

temperature which is consistent with the detector of the counting system.

- 5) Should compensate for both optical and isotopic crosstalk allowing use of a wide range of micro plates. Important when counting higher energy beta and gamma emitters
- 6) Performance data for Liquid scintillation counting:
Counting efficiency:
3H -equal to or more than 57%,
14C- equal to or more than 93%
Maximum count rate: 3,000,000 CPM
- 7) Should be able to count filterplates & also intact filtermats.
- 8) Should have a sample loading capacity of more than fifteen 24/96 well plates at a time.
- 9) The instrument must come with 2 sets of sample racks as well as adapter for eppendorf tubes.
- 10) The instrument must come with 1000 no's of 4 ml vials., eppendorf tubes and other consumable required for reading the samples.
- 11)
- 12) The instrument should come with the dispenser for liquid scintillation cocktail.
- 13) The instrument must come with 5 sets of 24 and 96 well plates, filtermats and necessary accessories for placing plates and filtermats in the instrument.
- 14) The instrument must come with 10 liters of liquid scintillation cocktail.
- 15) The Instrument must come with necessary data station/ computer TFT screen, softwares and laser printer.
- 16) The instrument must come with Compatible UPS system.

- 17) Warranty must be 2 years after installation and one year free service followed by the warranty period.
- 18) Price must be quoted as F.O.B

Terms and conditions

1. Letter from manufacturer specifically to quote for this tender is to be attached for authenticity of dealership/agency and dealer should be authorized service provider.
2. Vendor should get a fresh certificate from their principal's clearly mentioning about on site comprehensive warranty for two years after installation of the systems to be delivered.
3. Special discount/rebate wherever admissible keeping in view of that the supplies is being made for Educational purpose in respect of public institution of national importance may please be indicated.
4. Vendor should attach the relevant product brochure/leaflet for the model quoted and the offered technical specification must be supported by the printed brochure.
5. Validity of the quotation should be atleast 3 months.
6. Vendor will do the installation and demonstration of the machine without any extra cost at IIT Delhi premises.
7. Taxes, terms and conditions should be clearly mentioned.
8. Proprietary certificate must be included for the item, if applicable.
9. Valid agency certificate must be included, if applicable.
10. IIT Delhi has the right to accept or reject any quotations without showing reasons.

(Professor C.S. Dey)

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