



INDIAN INSTITUTE OF TECHNOLOGY KANPUR

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Enquiry Letter No. CE/EEM/2013/NC/DGGE/9

Date: Aug 22, 2013

Last Date: September 9, 2013

Letter Requesting Quotation for Mutation Detection System

Quotation is sought for a comprehensive *Mutation Detection System* with minimum specifications given in the list below. The quotation has to be submitted in two separately sealed envelopes, one containing the technical specifications and marked as "Technical Quote" on the envelope and the other containing the price and marked as the "Price Quote" on the envelope. Please apply the discounts admissible to the educational institutes such as IIT Kanpur and also note that IIT Kanpur is exempted from paying duties for imported items.

Minimum Specification Required:

- System should be able to detect *single base change* and compatible with all four electrophoresis techniques: Denaturing Gradient Gel Electrophoresis (DGGE), Constant Denaturing Gel Electrophoresis (CDGE), Temperature Gradient Gel Electrophoresis (TGGE) and Single-stranded Conformation Polymorphism (SSCP) analysis. Ability of temporal variation of temperature gradient in TGGE (i.e., TTGE) is required.
- Electrophoresis/Temperature Control Module: Ability to run up to two large (16×16 or 20×20cm) or four small (e.g. 7.5×10 cm or similar) gels simultaneously. All combs, clamps and spacers required must be provided. Temperature control module should contain stirrer, heater and recirculating pumps for accurate temperature control between 5° and 70 °C. Specifically, the tanks (electrophoresis tank and cooling tank) and other adapters required to maintain temperatures in the range of 5-25 °C for SSCP and 45-70 °C for DGGE, CDGE and TGGE must be provided. Temperature controller and heater should allow reproducible temperature ramps up to 0.1 °C/hr.
- Gel Caster/Gradient Maker: System should have a wide volume range to be able to cast either a small or a large gel. The gradient maker should be able to make either a perpendicular or a parallel denaturing gradient. All casting stands, tubing, fittings and syringes must be supplied.
- Gel Documentation System: UV transilluminator and image capturing facility
- Reagents: Control reagent kit for DGGE, CDGE and TGGE. Electrophoresis reagent kit for DGGE, CDGE, TGGE and SSCP.
- Essential Spares: Spares required for trouble free operation of the instrument for 3 years must be included in the quotation.
- Expected Free of Cost: Manuals, Application Notes, 3 years service and maintenance, and analysis software such as WinMelt or MacMelt.

All quotations should be in the currency of the country of origin of the instrument and CIF, Delhi. The quotation should reach the address mentioned in this letterhead no later than **September 9, 2013**.

(Vinod Tare)