



Indian Institute of Technology, Kanpur
Department of Biological Sciences and
Bioengineering Kanpur 208016, INDIA

Dr. Ashwani Kumar Thakur

Assistant Professor

akthakur@iitk.ac.in

Tel: +91-512-2594077

Dated: 27/01/2012

Closing date: 31/01/2012

Enquiry no.:- AKT/BSBE/04

Request for submission of quotation for “Dynamic Light Scattering (DLS) Instrument”

Sealed quotation(s) are required on or before 31st January 2012, latest by 5.00 pm with details of all technical specifications mentioned below.

1. Particle size range – 0.5 to 5000 nm measured as hydrodynamic radius
2. Zeta Potential measurement – ranges from -200 to +200 mV
3. Light source of appropriate frequency with power, programmable in range of 10-100 mW
4. Scattering angle = 90⁰ and specify other (if any)
5. Sample volume = Variable in range of µl to ml depending on cuvette provided. Provision for use of disposable cuvettes should be available.
6. Cuvette specifications
7. Sensitivity in terms of ‘concentration’ of protein and ‘time’ of data acquisition
8. Precision of instrument in terms of measurement of ‘hydrodynamic radius’
9. Digital correlator with appropriate no. of channels with specification of sampling time
10. Temperature range achievable
11. Detector with capability of attenuation and amplification of scattering signal
12. Range for molecular weight determination
13. Compatibility with Static Light Scattering (SLS) method
14. Provision of software for DLS
15. Accessory equipment provided by manufacturer along with DLS instrument

Please provide detailed description of all the parts of the system. Also provide separate lines for initial price and discounted price, time required for delivery and minimum days of validity for quotation. Also mention the warranty period for the instrument along with maintenance schedule.

Dr. Ashwani Kumar Thakur

Assistant Professor

Dept. of BSBE, IIT Kanpur

akthakur@iitk.ac.in

Tel: +91-512-2594077