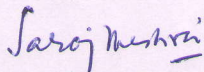


Indian Institute of Technology (IIT) Delhi
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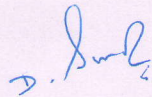
The Purchase Committee for the purchase of Dual-mode UV-Vis Spectrophotometer with Micro-Volume AND Cuvette Capability from the DST Grant (RP02438) met on 28-12-2011 at 11 AM in the Committee Room, DBEB to finalize the specifications for above item. Enclosed specifications were finalized and the Committee recommended that NIQ may be put on the Institute website for wider circulation.

Members present:

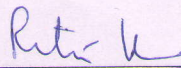
Prof. Saroj Mishra	-	Professor, Dept. of Biochemical Engg. & Biotechnology
Dr. D. Sundar	-	Asst. Prof., Dept. of Biochemical Engg. & Biotechnology
Dr. Ritu Kulshreshtha	-	Asst. Prof., Dept. of Biochemical Engg. & Biotechnology
Dr. Atul Narang	-	Assoc. Prof., Dept. of Biochemical Engg. & Biotechnology



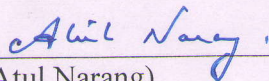
(Saroj Mishra)



(D. Sundar)



(Ritu Kulshreshtha)



(Atul Narang)

Indian Institute of Technology (IIT) Delhi
Department of Biochemical Engineering and Biotechnology
Hauz Khas, New Delhi – 110 016, India

Sealed quotations are invited in US dollars (USD) from reputed companies or their authorized representatives for supply of **Dual-mode UV-Vis Spectrophotometer with Micro-Volume and Cuvette Capability** conforming to the technical specifications (not inferior than those specified below) and prescribed terms and conditions given below. **The price should be on FOB basis.**

Interested parties are requested to submit their sealed quotations in an envelope containing the financial and technical bids in **separate** sealed envelopes. The NIQ should be addressed to **Dr. Atul Narang** and submitted to the Main Office (Room No. I-224) of the Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology (IIT) Delhi, Hauz Khas, New Delhi – 110016 latest by **4 pm on January 21, 2012.**

Number of **UV-Vis Spectrophotometers with Micro-Volume and Cuvette Capability** to be purchased – **ONE**

A. SPECIFICATIONS FOR MICROLITER MEASUREMENTS

Minimum sample size	0.5 µL
Sample number	One or more
Path length	1 mm
Light source	Xenon flash lamp
Detector type	2048 pixel CCD array
Wavelength range	230-840 nm
Wavelength accuracy	1 nm
Spectral resolution	3 nm
Absorbance precision	0.003
Absorbance range	0.02-300
Detection limit	3 ng/µL dsDNA
Maximum concentration	15,000 ng/µL dsDNA
Measurement time	< 5 seconds

B. SPECIFICATIONS FOR CUVETTE MEASUREMENTS

Heating	37 ± 0.5°C
Stirring capability	Required
Pathlength	10, 5, 2, 1 mm
Absorbance range	0.002-1.5
Detection limit	0.4 ng/µL dsDNA
Maximum concentration	750 ng/µL dsDNA
Measurement time	< 3 seconds
10 mm quartz cuvettes	1 pair

C. OTHER GENERAL TERMS

Warranty required	One year comprehensive onsite warranty (Parts and labour)
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D. ADD-ON ITEMS (May be quoted separately)

Extended warranty	Two year extended comprehensive onsite warranty (Parts and labour)
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Terms and conditions

1. Manufacturers' specifications should be arranged **in the same order** as the specifications given above.
2. 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.
3. Vendor should get a fresh certificate directly from their product principal clearly mentioning about on-site comprehensive warranty for One year of the systems to be delivered.
4. Indicate if a special discount/rebate, wherever admissible, is being provided in view of the fact that the supplies are being purchased for educational purposes in a Public Institution of national importance.
5. Vendor should attach the relevant product brochure/leaflet for the model quoted.
6. Validity of the quotation should be at least three months.
7. Vendors will do the installation and demonstration of the machine at IIT Delhi premises without any extra cost.
8. Taxes, Terms and Conditions should be clearly mentioned.
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same may be provided.
10. A compliance statement for the specifications should be attached.

The Institute/Purchase Committee has the right to accept or reject any bid or all quotations without assigning any reasons whatsoever.

Minimum sample size	0.3 ml
Sample number	One or more
Path length	1 cm
Light source	Mercury Discharge Lamp
Detector type	2048 pixel CCD array
Wavelength range	220-840 nm
Wavelength accuracy	1 nm
Spectral resolution	2 nm
Absorbance precision	0.001
Absorbance range	0.02-999
Detection limit	1 ng/ml dsDNA
Maximum concentration	15,000 ng/ml dsDNA
Measurement time	< 7 seconds

B. SPECIFICATIONS FOR CUVETTE MEASUREMENTS

Heating	37 ± 0.2°C
Stirring capability	Required
Path length	10, 5, 2, 1 mm
Absorbance range	0.002-1.5
Detection limit	0.4 ng/ml dsDNA
Maximum concentration	750 ng/ml dsDNA
Measurement time	< 7 seconds
10 mm quartz cuvettes	1 per

C. OTHER GENERAL TERMS

Warranty required	One year comprehensive onsite warranty (Parts and labour)
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D. ADD-ON ITEMS (May be quoted separately)

Extended warranty	Two year - extended comprehensive onsite warranty (Parts and labour)
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