

भारतीय प्रौद्योगिकी संस्थान कानपुर **Indian Institute of Technology Kanpur**

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10 February 2015

Enquiry No. **IITK/CHM/TGG/2015/002** Last date: 23rd February, 2015

Sub.: Request for quotation for USB connected mini UV-Vis spectrometer, Cuvette and Lamp

Dear Sir/Madam

Kindly send us sealed quotations for the following item. Preferably, provide us a combined quotation for both items. Quotations should be addressed to Dr. Thiruvancheril G. Gopakumar, Department of Chemistry, IIT Kanpur **208016**, and must reach on or before Monday, 23rd February, 2015.

Thanking you

T. G. Gopakumar

Specifications for USB connected mini UV-Vis spectrometer:

Spectrometer:

1. Detector: linear array

2. Detector range: 200 - 1100 nm

Detector Pixels: ≥ 3648
Pixel size: 8 um x 200 um

5. Pixel well depth: ≥ 100,000 electrons

6. Signal-to-Noise ratio: ≥ 400:1

7. A/D resolution: 14 bit

8. Fiber Optic Connector: SMA 905 (0.22 numerical aperture optical fiber)

9. Exposure time: 1.0 ms - 10 s10. CCD reading time: $\geq 10 \text{ ms}$

11. Power consumption: 5 V from USB interface12. Onboard memory capacity: ≥ 64 spectra

13. Data transfer speed: 200 ms / 100 ms (2 points binding)

14. Computer interface: USB 2.0,

15. Operating system: Windows 98/Me/XP/Vista/Windows7; 32/64b

16. Software: Full application software, drives

Light Source with Sample Holder for above mini spectrometer:

1. Halogen/Other Light source: 200-1100nm

2. Sample/Cuvette Holder with SMA connectors

3. Optical fiber: < 400 um core diameter, Wavelength range 200-1200nm, perform absorbance and transmittance application, 1-2 m length, SMA-905 connectors

4. Hardware parts: 2 x USB cables, 2 x 1-2 meter optical fiber with SMA connectors

Cuvette and Cuvette holder

- 1. Sample/Cuvette Holder with SMA connectors
- 2. Cuvette x 3

Terms and Conditions:

- 1. Price should be CIP Delhi/Kanpur
- 2. Warranty: 1 year or more