



# Indian Institute of Technology Kanpur

## Samtel Centre for Display Technologies

Enquiry number: SCDT/2014-15/07

Date: January 23, 2015

Quotations from prospective vendors are invited by Samtel Center for Display Technologies, IIT Kanpur for UV/Vis Spectrophotometer.

Note: **The technical and financial bid should be submitted together in separately sealed envelopes.** The UV/Vis Spectrophotometer must have following minimum technical specifications.

### Specifications:

1. True double beam scanning spectrophotometer covering wavelength range 190-1050 nm or wider.
2. System must have variable bandpass of 0.5-4 nm or wider.
3. The optics must be quartz-coated. holographic monochromator should have 1050 lines/mm or more.
4. The system must have advanced dual diode detector, one for sample and another for reference beam.
5. Source lamp must be simple user replaceable. And it should be pre-aligned for better performance.
6. System should utilize dual source configuration ( D2 & Tungstion-Halagon) source combination for high sensitivity. Built in auto positioning light source
7. Stray light performance of  $<0.01\%T$  at 220, 340 and 370 nm is must.
8. Wavelength accuracy of at least  $\pm 0.1$  nm or more.
9. Different photometry mode such as Absorbance, transmittance, reflectance should be available with the system and photometric accuracy of  $> \pm 0.0015$  at 1A and  $> \pm 0.006$  at 2A is necessary.
10. Photometric range must be from -5 to +5 abs
11. The instrument must have a stability of at least 0.00015 A/hour.
12. Photometric noise at 500nm (0A) must be less than 0.00005A.
13. The system must have PC control via a RS232 or USB interface.
14. Self-test during instrument start-up is desirable.
15. The ability to correct for blanks in real time is essential. .
16. The sample compartment must be completely sealed to prevent accidental spillages into the optical system.
17. Software capabilities: PC Controlled software operating under Windows 7 or 8, modules for data acquisition, report generation, spectral analysis and Kinetics.
18. The software must use relational database technology for the storing of data, reports and methods and for searching and trending. Generate ##.txt file from the raw file. Multitasking software
19. For peltier accessories, temperature information must be stored with all data.
20. One pair of quartz cuvettes of 10 mm path length should be quoted.
21. The suitable sample holder to analyze solid samples especially transparent/semitransparent films of at least 5mm thickness in transmission mode must be quoted.
22. An on-site, parts and labour warranty of at least 36 months is essential.

Optional Items:

1. Peltier controlled single sample holder with cuvette stirring ability should be quoted. It should have ability to operate at temperature 90°C or more and ability to operate at preset temperature programs.
2. Integrating sphere of inner diameter of 50 mm or more with the workable wavelength of 200-1050nm or more should be quoted.
3. Branded PC and 2KVA UPS should be quoted along with the system.

Terms and Conditions:

1. Provided the technical bid meets the minimum specification, the final decision in favor of a bid will be made based on the financial bid, system capabilities, favorable payment terms, and after-sales services offered, and delivery time.
2. Please do mention tender number clearly on the envelop.
3. Please send the name and contact details of the person to whom company had supplied a similar systems. Committee may ask for the feedback.
4. The supplier must have supplied systems to institutions of national and/or international repute.
5. Quotation must indicate FCA or FOB prices.
6. Payment terms & condition is 70% against delivery, 20% after installation and 10% after successful running of equipment for 3 months & approval.
7. The quoted whole system must come with minimum three-year warranty. The Warranty must start from the date of installation at IITK.
8. Installation, demonstration, and training-sessions at IIT Kanpur will have to be provided by the manufacturer or the vendor for the quoted system.
9. Quotation should carry proper certifications like proprietary certificate, authorization certificate from manufacturer, etc.
10. Validity of quotation should be at least for 60 days.
11. Maximum educational discounts should be applied.
12. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%).
13. The delivery period should be specifically stated. Earlier delivery may be preferred.
14. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.

Kindly send the quotation in sealed envelope latest by 3.00PM on 05.02.2015 to the following address;

Room No.305,  
Samtel Centre for Display Technologies,  
Indian Institute of Technology Kanpur-208016, UP, India.