

CENTRE FOR NANOSCIENCE & NANOTECHNOLOGY

(under the premises of Physics Department)

PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)



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Dear Sir,

Please quote your lowest rates in duplicate should be clearly written or typed (cutting avoided) for the item/s list attached given below, specifying make, quality, period of supply of each item along with detailed information and should reach the undersigned on or before **09.12.2014**

1. **Rates quoted should be FOR PU Chandigarh.**
2. The rates of insurance, excise duty, S.T. should be clearly mentioned, original receipts for the insurance charges are required along with the bill of supply.
3. We have been exempted from paying Central Excise Duty, vide Govt. of India notification No.10/97-Central Excise dated March 1, 1997 and is valid upto 31.8.2015.
4. Special Discount for educational institutions, University teaching department may be mentioned.
5. The quotation in a sealed envelope giving our/your reference No./Date of quotation should be sent.

The technical and financial bids be enclosed in separate sealed envelopes duly marked and placed together in a duly sealed envelope giving our reference and due date of quotation.

7. **A compliance table as per the specifications below should be included.**

SPECIFICATIONS for UV-VISIBLE SPECTROPHOTOMETER

S No.	Specification	Description
1.	Optical System	Double beam, 50/50 beam-splitter design with Pre-Monochromator
2.	Wavelength Range	190nm to 1100nm
3.	Working Mode	Computer controlled
4.	Spectral Bandwidth	Variable: 0.5-4nm or better
5.	Monochromator& Pre-Monochromator	Holographic concave grating
6.	Wavelength Accuracy	$\pm 0.1\text{nm}$ @ 656.1nm D2
7.	Wavelength Repeatability	$\pm 0.05\text{nm}$ or better
8.	Stray Light	<0.005% T @220nm for NaI <1% T @200nm for KCl
9.	Photometric Range	Till 3.8Abs
10.	Photometric Accuracy	At 1A: $\pm 0.003\text{A}$ The measurements should be with NIST 930 D Filter At 2A: $\pm 0.005\text{A}$ or better The measurements should be with NIST 1930 D Filter Potassium Dichromate: $\pm 0.010\text{A}$
11.	Photometric Reproducibility	At 1A: <0.001 Abs for minimum 10 measurements
12.	Baseline Flatness	± 0.001 Abs (190-1100nm) or better, Slit 1nm
13.	Noise Level	<0.00005 Abs RMS @ 500nm, Slit 1nm
14.	Light Source	Tungsten and Deuterium Lamp, pre-aligned and pre-focused with

		automatic lamp switchover
15.	Windows based operating software should have built in features like Wavelength programming, Quant and Scanning Quant, Time Drive, Enzyme kinetics calculation	
16.	Warranty	The system should be quoted with two year warranty

Note:

1. The system should be quoted with Optical Quartz cuvettes (Pack of 2)
2. The quoted software should have inbuilt Instrument Performance Verification checks
3. Branded PC (Specifications: Intl Pentium Dual Core 5th Generation Processor with 4 GB DDR3 RAM, 500 GB HDD, DVD Writer, Keyboard, Mouse, 20" LED Screen), Window 8 Professional with licensed CD Original with 32 bit with Laser Printer and 2 KVA Online UPS with 30 min. back up with frequency monitoring facility should be supplied with the system.
4. The system should be quoted with at least two year warranty.

Thanking you,

Yours faithfully,

(Dr.Nishima)
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