परिशिष्ट 'क'



SAVITRIBAI PHULE PUNE UNIVERSITY DEPARTMENT OF PHYSICS

Ref. No./Quot./PHY/ Dept. Gen/NBC/48

Date: 22/02/ 20 21

Name of the Administration

Branch/Department:

Quotations are invited for the supply of following goods/carrying out the work, so as to reach this office on or before

02 /03 /20 21

Sr. No.	Description of Material/Item/work	Approximate Quantity	Rate Per unit	Amount (Rs.)	Remark
	UV-VIS-NFR Dual beam spectrophotometer The required specifications are given in attached sheet.	01			

- 1. Octroi Exemption Certificate will be issue for the goods supplied from the places outside Pune Municipal Corporation Limits.
- 2. Excise duty, Custom duty Exemption Certificate will be issued if applicable. *Note*: For other terms and conditions see overleaf.



Specification for UV-VIS-NIR Dual beam Spectrophotometer

Specification-			
Light Source	: Suitable light source for UV-Vis-NIR regions,		
	Selectable light source changeover wavelength		
Wavelength Range	: At least 200 to 2500 nm or broader		
Wavelength Accuracy	$:\pm 0.1$ to ± 0.5 nm		
Wavelength repeatability	: \pm 0.05 nm to \pm 0.5 nm, (UV-Vis) and \pm 0.2 nm to \pm 1		
	nm, (NIR)		
Spectral bandwidth	: 0.1 to 10 nm (UV-Vis) and 0.5 to 20 nm (NIR)		
Stray light	: 0.005% or less (220 nm, NaI)		
Speed	: Wavelength slew rate : 15000 to 50000 nm/min		
	Wavelength scan rate: about 5 to 5000 nm/min		
Monochromator	: Suitable high-performance Monochromator		
Detector	: Suitable high-performance Detractor.		

Integrating Sphere attachment, powder and thin film sample holders. Measurement modes, Quantitative Analysis

Wavelength scan (Abs, T%, R%, sample and reference), Time scan(Abs, T%, R%, sample and reference), Fixed wavelength (Abs, T%, R%, sample and reference)

Data processing:

Normalization, Baseline correction, point pick, peak/valley detection, area calculation; 1st – 4th derivatives, smoothing, reciprocal, square root, natural log. Abs, %T conversion, exponential conversion, and Kubelka-Munk conversion; Ensemble averaging, interpolation, four arithmetic operations, Vertical axis conversion, Horizontal axis conversion and licensed copy of advance analysis software.

Sample will be provided to each potential vendor and ask them to record the spectra using the system supplied to the customer, (preferably academic institution) and submit the data by email.

Bonne

Head Department of Physics Savitribai Phule Pune University Pune - 411 007.

व्युद्ध माडकर