

ਬਾਟਨੀ ਵਿਭਾਗ

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ-147002

(1961 ਦੇ ਪੰਜਾਬ ਐਕਟ ਨੰ: 35 ਤਹਿਤ ਸਥਾਪਤ)

ਫੋਨ: 0175-3046265(ਮੁਖੀ), 0175-3046266(ਦਫਤਰ) (ਮੋ: 99881-95434)



ਨੰਬਰ: 2890/ਬਾਟਨੀ
ਮਿਤੀ: 6-7-20

Specifications of Double Beam UV-Visible Spectrophotometer (Shimadzu)

1. Microprocessor based UV-Vis Spectrophotometer with the following specifications:

(Model UV-1900)

Photometric System	:	Double beam optics
Photometric range	:	Absorbance: -4 to +4.0 Abs,
Transmittance	:	0.0 to 400%
Photometric Accuracy	:	+/- 0.0025 Abs. at 1.0 Abs & +/- 0.002 Abs. at 0.5 Abs
Wavelength Range	:	190 to 1100 nm or better
Wavelength Display & Setting	:	0.1 nm increment
Wavelength Accuracy	:	+/- 0.05 nm or better
Wavelength Repeatability	:	+/- 0.1 nm or better
Photometric Repeatability	:	+/- 0.0001 Abs or better
Scanning speed studies	:	Up to 25,000 nm/min or better for fast kinetic
Spectral Bandwidth	:	1 nm or better
Stray light	:	Less than 0.01% at 340 nm or better
Baseline Stability	:	less than 0.0003 Abs/H
Baseline Flatness	:	less than 0.0006 Abs/H
Noise Level	:	Less than 0.00003 Abs
Monochromator	:	Czerny Turner blazed holographic grating
Detector	:	Silicone photodiode
USB Port connectivity	:	2-3 USB ports for data Transfer, PC, Printer
Light source	:	Tungsten and Deuterium lamp.
Quartz Cuvette	:	3.5 mL pathlength of 10mm (01 Pair)

Spectrophotometer should have built in hardware validation for Wavelength accuracy, wavelength repeatability, resolution, stray light, photometric accuracy, photometric repeatability, baseline flatness, baseline stability, noise level and validation software alongwith optical filter for wavelength calibration.

Windows based Operating software should have built in features like real time concentration display, Photometric mode Single / multi-wavelength, Enzyme Kinetics calculation, event recording such as Addition of reagents during measurement, DNA/protein quantification etc. Spectrophotometer should have built-in color touch screen display so that user can use the Spectrophotometer without PC/Laptop also.


- Online UPS with 30 minutes back up for Spectrophotometer(1 Kva): 01
- Power Cable (240 V): 01
- Lab Solutions UV software: 01
- UV 10 mm, 3 mL Cell Quartz: 02


2. Laminar, Fume Hood and Biosafety Cabinets

(NU-157) C: Size: 4'x2x2' S.S. : Horizontal Laminar Air Flow Cabinet

Note: Bids of those will be considered who ^{are} authorized dealer /sole supplier/sole distributor /stokest or manufacture of the equipment whose bid has been called .,

- ਟੈਂਡਰ ਮਿਤੀ 15-07-2020 ਤੱਕ Sealed ਲਿਫਾਫੇ ਵਿੱਚ Coordinator, UGC-DSA-I, Department of Botany, Punjabi University, Patiala ਦੇ ਨਾਮ ਤੇ ਭੇਜਿਆ ਜਾਵੇ।
- ਟੈਂਡਰ Accept ਕਰਨ ਦਾ ਅਧਿਕਾਰ UGC-DSA-I, Department of Botany, Punjabi University, Patiala ਪਾਸ ਹੋਵੇਗਾ।


(ਜੇ.ਆਈ.ਐੱਸ. ਖੱਟਰ)
ਪ੍ਰੋਫੈਸਰ ਅਤੇ ਕੋਆਰਡੀਨੇਟਰ


(ਮਨਪ੍ਰੀਤ ਕੌਰ)
ਪ੍ਰੋਫੈਸਰ ਅਤੇ ਮੁਖੀ

ਡਾਇਰੈਕਟਰ, ਯੂਨੀਵਰਸਿਟੀ ਕੰਪਿਊਟਰ ਸੈਂਟਰ (ਵੈਬਸਾਈਟ ਤੇ ਅਪਡੇਟ ਕਰਨ ਸੰਬੰਧੀ)