

### **Corrigendum**

**Subject: Reference e-Tender Notice - NITJ/PUR/150/18/e-Tender No.15/2018 regarding Purchase of Various Equipments**

Due to some clerical error, the specification of Portable Aerosol under CAT-B was entered twice in Annexure- A at CAT-B & CAT-C. Therefore, the specifications for Portable UV- Spectrophotometer is added under CAT-C.

**Registrar**



**DEPARTMENT OF CHEMICAL ENGINEERING**  
**Dr. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY**  
**(An Institute of National Importance)**  
**G T ROAD, BYE PASS, JALANDHAR-144 011, PUNJAB**

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**Specifications of ~~Portable~~ UV-visible spectrophotometer**

(Portable UV Spectrophotometer)

A portable Microprocessor based UV-Vis Spectrophotometer having following specifications:

Photometric System	Double beam optics
Photometric Range	Absorbance: -4 to +4 Abs, Transmittance: 0 – 400 %
Photometric Accuracy	$\pm 0.04$ Abs @ 1.0 Abs & $\pm 0.02$ Abs @ 0.5 Abs
Wavelength Range	190 1000 nm or better
Wavelength accuracy	$\pm 0.1$ nm or better
Wavelength Repeatability	$\pm 0.1$ nm or better
Photometric Repeatability	$\pm 0.001$ Abs or better
Scanning speed	Selectable upto 3000 nm/min or better
Spectral Bandwidth	Variable/1 nm or better
Stray light	Less than 0.02 % @ 220 nm & 340 nm
Baseline stability	Less than 0.0003 Abs/H
Baseline Flatness	Less than 0.0006 Abs/H
Noise level	Less than 0.00005 Abs
Monochromator	Czerny Turner blazed holographic grating
Detector	Silicon photodiode (02 Nos)
USB port	3-4 USB ports for Data storage/Transfer, Laptop/PC connectivity
Light source	Tungsten & Deuterium lamp
Quartz Cuvette	3 mL capacity with path length of 10 mm (02 pairs)

Windows based Operating software should have built in features like real time concentration display, Photometric mode Single/Multi wavelength, Enzyme Kinetics calculation, DNA/protein quantification etc. Spectrophotometer must have built in display so that user can be it in standalone mode.

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 along with optical filter for wavelength calibration. Two pair of cuvette (quartz) extra to be provided with this instrument.

Note: The supplier must give the training to be concerned lab staff to use this machine and related software. The supplier may also take care of the maintenance of this machine for one year including the expenses incurred on the executive visit. The supplier may be asked to furnish the list of Institutes like IITs, NITs etc to whom this machine has been supplied early.

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