



# Indian Institute of Technology Kanpur

## Environmental Engineering and Management

### Department of Civil Engineering

Professor Vinod Tare

Post Office: I.I.T Kanpur – 208016

Enquiry No- **CE/EEM/2014-15/SM/ 9**

**Date: 19-02-15**

Last Date: **February 26, 2015**

Sub: Call for quotation for **Visible-Spectrophotometer**

Sealed Quotation(s) are invited (in Indian rupees) for the purchase of visible spectrophotometer. Its technical details are as follows-

<b>Specifications</b>	
Optical System	Littrow monochromator using 1200L/mm holographic grating; coated optics. Accommodates 100mm cells
Optical Bandwidth	4nm, all versions
Wavelength Range	190-1100nm; 325-1100nm visible versions
Wavelength Reproducibility	Better than 0.1nm
Wavelength Accuracy	Within 1nm
Stray light	Typically 0.01% at 220nm and 340nm - UV versions
Photometric Ranges	-0.3 to 3.0A, 0-200%T, 0-9999C
Photometric Noise	Less than $\pm 0.0002A$ at 500nm
Photometric Accuracy	1% or 0.005A whichever is greater
Absorbance Zero Stability	Better than $\pm 0.001A/Hr.$ at 500nm
Absorbance Zero Setting	0A and 100%T automatic by press button
Self-Test and Calibration	Automatic at switch on
Filter and Lamp Selection	Automatic - coupled to wavelength
Display Screen- LCD	High resolution backlit screen with contrast control, displays menus, curves, scans and all data etc.

Display Screen	Scrolling Effective viewing width of 430mm
Wavelength Selection	Keyboard entry with GO TO key
Reaction Kinetics	Tabulation of results; reaction plots, reprocessing
Cell and Wavelength Programming	Up to 8 cells and 10 wavelengths in any combination
Peak Seek	Automatic with baseline flattening
Curve and Line Fitting	Linear, quadratic or cubic, with or without intercept, for up to 30 standards with curve editing
Wavelength Scanning	Scan speeds up to 4000nm/min with the scan software
Method Storage	Up to 100 methods and 30 curves, security coded
Real Time Clock	Timed and dated reports
Sipette Sampling	Under internal control with screen display
Batch Sampling	For up to 100 samples under internal control
Sample Temperature	Displayed and set from Keyboard
Computer Interface	Bi-directional serial RS232C and parallel ports
Power Requirements	110-250V, 50/60Hz, 170W/120W UV/Visible versions

Send sealed quotation(s) by 12.00 pm of February 26, 2015 to the following address:

Dr. Vinod Tare  
Environmental Engineering Laboratory (WL-116),  
Department of Civil Engineering  
Kanpur- 208016

Thanking You  
Sincerely,

(Vinod Tare)