

# YOGI VEMANA UNIVERSITY :: KADAPA

REGISTRAR



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To

Date: 04-03-2015

The FIRMS,

Quotations in sealed cover are invited for the supply of **UV-VIS-NIR SPECTROPHOTOMETER** with the following specifications:

## **SPECIFICATIONS:**

### **Technical specifications of UV-VIS-NIR spectrophotometer**

1. **Wavelength Range** : 175 nm-3300 nm
2. **Monochromator** : Double beam and double monochromator grating-grating type
3. **Grating** : Blazed around 250 nm for UV-VIS and 1100 nm for NIR region
4. **Detectors** : Highly sensitive detector and to cover UV-VIS and NIR regions
5. **Limiting resolutions** : UV-VIS  $\leq 0.05$  nm and even better  
NIR  $\leq 0.02$  nm and even better
6. **Wavelength reproducibility** : UV/VIS (Deuterium lamp lines)  $\leq 0.025$  nm  
NIR (Deuterium lamp lines)  $\leq 0.1$  nm
7. **Photometric accuracy** : Double Aperture Method  $\leq 0.0006A$
8. **Photometric Range** : 8A
9. **Band pass** : UV-VIS in steps of 0.01 nm  
NIR in steps as small as possible
10. **Wavelength accuracy** : UV-VIS  $\leq 0.1$  nm  
NIR  $\leq 0.4$  nm
11. **Details of PC configuration (suitable) to be supplied along with the unit**
12. **Details of printer to be provided**

**Accessories:**

- a. Specular reflectance attachment (a) Relative (b) Absolute
- b. Integrating sphere attachment (>100 mm diameter) for diffuse & total reflectance as well as transmittance
- c. Film holder
- d. Any other relevant accessories

**Optional:**

- a. Cryostat for low temperature
- b. Mercury lamp module for wavelength accuracy validation

List of essential spares required: (Please specify)

- a. Lamps
- b. Fuses
- c. Filters, etc.,

**Other information to be provided:**

1. a. List of institutions where UV-VIS-NIR installation were carried out by the supplier in the last 3 years, particularly in South India.  
b. Please specify the model, contact person name, contact details like e-mails, phone/mobile, etc.
2. Installation requirements including site, power, etc.
3. Whether gas purging is required?
4. Warranty & AMC terms.
5. List of spares to be specified free of cost along with the instrument.
6. UPS capacity & backup time.
7. Future software update conditions.
8. Any other requirement.

**Note: (1) All prices to be quoted on C.I.F, Chennai basis**

**(2) On site demonstration of the specifications is mandatory**

**(3) The decision of the University is final in all matters**

Interested firms are requested to send their quotations by **Speed/Registered/Courier/Drop in Box at Y.V.U.** to "The Registrar, Yogi Vemana University, Kadapa – 516 003 should reach on or before **14<sup>th</sup> March, 2015 at 5.00PM**. The envelope should be super scribed as

**"YVU/UGS XII/QUOTATIONS/SUPPLY OF UV-VIS-NIR SPECTROPHOTOMETER/2014"**

**Last Date: 14-03-2015**

**Sd/- REGISTRAR**

Copy to the

1. Co-ordinator, Web Committee, Yogi Vemana University, Kadapa for information and necessary action.
2. Vice-Chancellor, Yogi Vemana University, Kadapa for information.