



राष्ट्रीय प्रौद्योगिकी संस्थान मणिपुर  
NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR

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An Autonomous Institute under MHRD, Govt. of India.

No. NITM.1/(223-Estt)/SERB/Extra-Mural/2017- 1431

Date: 05.04.2017

To,

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Subject: Enquiry for supply of Double Beam UV VIS Spectrophotometer for EMR-SERB project at Deptt. of Physics, NIT Manipur

Sir,

Please provide sealed rate quotation for supply of the following items:

Sl.	Item	Qty (Nos.)
1	<p><b>Double Beam UV VIS Spectrophotometer</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"><li>Microprocessor based UV-VIS Spectrophotometer with high resolution LCD display and dedicated soft keypad, for operation on 220V / 50Hz.</li><li>Stand-alone operation or complete control through PC with PC software supplied as standard</li><li>True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light</li><li>Wide wavelength range of <b>1,100 nm to 190 nm</b></li><li>High resolution <b>1 nm</b> spectral bandwidth over entire wavelength range</li><li>Wavelength setting and display in steps of 0.1 nm</li><li>Wavelength accuracy of <math>\pm 0.1</math> nm for D<sub>2</sub> spectral line</li><li>Wavelength reproducibility of <math>\pm 0.1</math> nm</li><li>Variable wavelength scanning speed of 3,000 nm/min to 2 nm/min</li><li>Ultra low stray light of &lt;0.02%T at 220nm with NaI filter</li><li>Wide Photometric range of -4 to +4 Abs and 0 to 400 %T</li><li>High Photometric Accuracy of <math>\pm 0.002</math> Abs at 0.5 Abs</li><li>High Photometric Repeatability of <math>&lt;\pm 0.001</math> Abs at 0.5 Abs</li><li>Very low baseline drift of 0.0003 Abs/hour</li><li>High baseline flatness of <math>\pm 0.0006</math> Abs over entire wavelength</li><li>Ultra low Photometric noise of &lt;0.00005 Abs</li><li>Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover</li><li>High sensitivity matched pair Silicon Photodiode detector</li><li>5 USB ports for high speed PC and printer connectivity, data storage and transfer through USB pen drive</li><li>Guaranteed compliance with all Pharmacopoeial requirements</li><li>Built in validation program, diagnostic and security functions</li><li>All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in standalone and PC mode. Additionally Multi-Component measurement available in stand-alone mode.</li></ul>	01

  
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<ul style="list-style-type: none"> <li>▪ Large sample compartment compatible with wide range of accessories</li> <li>▪ Compatible PC and offline UPS are to be offered</li> <li>▪ Must supply one pair of 10mm path length Quartz Cuvettes with the system as standard supply.</li> <li>▪ <b>Constant Temp Cell Holder</b> Maintains a sample cell and reference cell at a desired, uniform temperature, by circulating constant-temperature water; <b>Temperature range: 5°C to 90°C</b> <ol style="list-style-type: none"> <li>I. Cell holder: Accepts a pair of 10-mm square cells</li> <li>II. Connecting joint outer diameter: 6 mm and 9 mm (two levels)</li> </ol> </li> <li>▪ Water bath is to be offered.</li> <li>▪ Warranty must be 12 months from the date of installation</li> </ul> <p><b>Service</b> Installation Service Required Technical Support</p>	
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Yours sincerely,

  
 05/04/17  
 (R.K. Lalit Singh)

**Registrar, NIT Manipur**

**Terms & Conditions:**

1. Quotation should reach Registrar, NIT Manipur, Langol on 26.04.2017 at 3:00 P.M.
2. The envelope should be superscribed as **“Quotation for supply of Double Beam UV VIS Spectrophotometer for EMR-SERB project at Deptt. of Physics, NIT Manipur”**
3. Prices must be inclusive of taxes.
4. Prices must be F.O.R NIT Manipur Stores, Langol, Imphal.

**Copy to:**

1. Member, Purchase Committee
2. Technical Officer, NIT Manipur for uploading in the website
3. CF/GF