

सीएसआईआर – उत्तर पूर्व विज्ञान एवं प्रौद्योगिकी संस्थान  
CSIR – NORTH-EAST INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Council of Scientific & Industrial Research)  
जोरहाट: **JORHAT:** असम: **ASSAM**

NIT No. **3(POQ)/81/17 – 18/PUR/T – 84**

Date: **19.12.2017.**

Note: Please send your quotation in **ONLINE** as per the time schedule given in online tender notice.

To,

Prospective bidders  
Through CPP Portal  
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Dear Sirs,

Kindly arrange to send your offer **ONLINE in SINGLE BID System** quoting this office file / NIT reference on the uploaded offer within due-date and time as per the terms & conditions given in this NIT:

Sl. No.	Parts	Description.
<b>Supply &amp; Installation of Modular Configurable Spectrometer Setup for Laboratory Purpose Transmission and Reflection Measurements with the following items.</b>		
1.	USB CCD Spectrometer	A modular configurable CCD based spectrometer for using with a PC covering the spectral range of 200 – 1000 nm with interchangeable slit feature <b>Qty. 1 No.</b> <b>Specifications –</b> Optical resolution: ~0.1 nm FWHM Detector: Linear silicon CCD array Detector range: 200 – 1000 nm Pixels: 3648 Dark noise: ~50 RMS counts Signal-to-noise ratio: > 1000:1 for a single acquisition Integration time: ~ 5msec - 10 secs Stray light: < 0.1% overall A/D resolution: 16-bit Trigger modes required PC interface: USB Fiber optic connector: SMA 905 to optical fiber Spectroscopy software
2.	Broadband Light Source	Fiber coupled Tungsten Halogen light source with filter holder, shutter and attenuator. <b>Qty. 1 No.</b> <b>Specifications –</b> Source: Tungsten Halogen Wavelength range: 360-2400 nm Colour temperature: 2800-3000 K Output power: 5-10 W Source lifetime: about 10,000 hours Trigger and shutter required Output power drift: <0.5% per hour SMA fiber interface

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Sl. No.	Parts	Description.
3.	Absorption Measurements Accessories	<p>Transmission/absorption measurements for characterizing liquid samples in cuvette, thin films and transparent substrates mainly in the visible wavelength range.</p> <p><b>Accessories with Specifications –</b></p> <p>(h) Cuvette holder 1-cm path with wavelength range 200-2000 nm; <b>Qty. 1 No.</b></p> <p>(i) 400 µm fiber patch cord UV/VIS; <b>Qty. 2 No.</b></p> <p>(j) 200 µm fiber patch cord UV/VIS; <b>Qty. 2 No.</b></p> <p>(k) Quartz cuvettes 1-cm path length; <b>Qty. 1 No.</b></p> <p>(l) Transmission/reflection optical stage: for configurable characterization of thin films on substrates; <b>Qty. 1 No.</b></p> <p>(m) Lens mount for transmission measurements of thick solid samples up to 10 cm thickness; <b>Qty. 1 No.</b></p> <p>(n) Collimating lenses, holders and posts; <b>Qty. as per setup</b></p>
4.	Reflection Measurements Accessories	<p>Reflection measurements using reflection probe consisting of 6-around-1 fiber bundle design for measuring reflectance from thin films, liquid samples in cuvette and solid samples.</p> <p><b>Accessories with Specifications –</b></p> <p>(e) 400 µm reflection probe UV/VIS with 6-around-1 fiber bundle design with 6-fiber leg connects to light source and single-fiber leg connects to the spectrometer; <b>Qty. 1 No.</b></p> <p>(f) Reflection probe holder; <b>Qty. 1 No.</b></p> <p>(g) Post holder for adjusting height and distance; <b>Qty. 1 No.</b></p> <p>(h) White spectral reflectance reference standard with &gt; 95% reflectivity from 300 – 2000 nm wavelength; <b>Qty. 1 No.</b></p>
5.	Laptop	Instrument software compatible system with configuration: Core-i5 Processor, 8GB RAM, 1TB Hard drive, DVD writer
<p><b>NOTE (A): Installation and training would be required for ease of operating and handling the instrument.</b></p>		

**Last Date and Time for Submission of Bids: 09.01.2018 at 03:00 PM**  
**Date and Time of Opening of Bids: 10.01.2018 at 03:00 PM**

Details available on <https://www.etenders.gov.in>

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