

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

Date: 18<sup>th</sup> May 2021

**Corrigendum 1**

Tender No.: RGIPT/JAIS/CRF/E-OPN/LAB/2020-21/03 (Raman Spectrometer)

Please refer to the above e-tender no. RGIPT/JAIS/CRF/E-OPN/LAB/2020-21/03 on [rgipt.euniwizarde.com](http://rgipt.euniwizarde.com) portal & institution website. The technical specification and dates of the bidding process for Raman spectrometer is revised.

- The revised technical specification of the above equipment is uploaded in the web-site
- The revised date for the last date of submission of e-tender is **1<sup>st</sup> June 2021, 4 PM.**
- The date of opening of technical bid is **1<sup>st</sup> June 2021, 5 PM.**

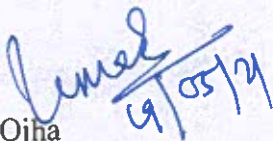
The bidders are advised to submit the bids as per the revised technical specification and the bids shall be received before the revised last date of submission.

Other terms and conditions remain unchanged.

Note: Please see [www.rgipt.ac.in](http://www.rgipt.ac.in) for more information in the bid.

U. Ojha

Chairman, CRF Purchase Committee

  
19/05/21

Technical Specifications	Bidders Specification	Compliance
<b>Raman System</b>		
250 mm or more focal length spectrophotometer		
Spectral Range- 50- 4000 $\text{cm}^{-1}$ or more, Wave length range 200 - 2000 nm		
Spectral Resolution- 0.5 $\text{cm}^{-1}$ or better FWHM		
Appropriate inbuilt calibration source at least two, for full spectral range.		
Spectrophotometer with high throughput (Kindly mention the % transmittance value)		
Gratings: 2400gr/mm, 600 gr/mm ruled gratings		
Photoluminescence should be able to perform. PL range 500-1050 nm		
Objectives: 10x, 100x, 50x		
Raman filter set for 532 nm, $\sim 50 \text{ cm}^{-1}$ edge filter, beam splitter and band pass filter		
ND filter or alternate technique to vary laser power 1 to 100%.		
Camera for sample viewing: $\sim 3$ Mega Pixel or better		
<b>Laser</b>		
Laser 532 nm, Diode Laser, 50 mW power or Higher at laser output		
Laser power stability $\leq 1\%$ or Less		
Beam Diameter $\leq 1.2$ mm		
Laser Line Width $< 0.00019$ nm or better		
100: 1 Polarization stability		
Power control must be software controlled preferably		
Fiber coupled or Direct coupled to microscope		
<b>Detector</b>		
CMOS or Back illuminated CCD Detector		
1 stage TE cooled to $-60 \text{ }^\circ\text{C}$ or better		
QE $> 90\%$ @530 nm		
Pixel Size: $26 \mu\text{m} \times 26 \mu\text{m}$		
Dark Noise 0.001 e-/pixel/s		
USB Interface		
<b>Software</b>		
System- Window 10 based or Higher- License window 10 required		
Data acquisition software for instrument control, image capture for viewing and saving of images.		
Data processing software for baseline correction, auto fluorescence correction, sensitivity correction, curve		

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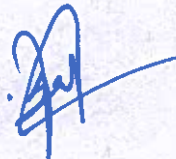
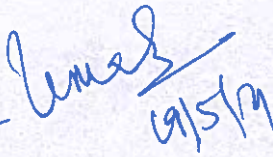
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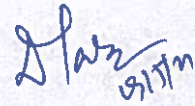
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smoothing, etc., with other compatible application		
<b>Accessories</b>		
One Computer with the latest configuration- Dual core Processor or better, 8GB RAM, 1000 GB HDD or better: 24" or Higher LCD monitor, suitable UPS system		
Anti-Vibration Table; Closed chamber (Microscope/detector in closed system)		
<b>Warranty</b>		
3 years from the date of successful installation		
<b>Installation and Training</b>		
On- site Installation and Training by expert application Engineer		
Equivalent system should have been supplied to well-known research institution including IITs, IISc and CSIR Labs and the like. A user list must be enclosed		
<b>Note: The system should have facility to upgrade in future as per following requirements; 325 nm He-Cd laser, 785 nm Diode laser; motorized scanning stage with integrated measuring system; Microscope heating cooling stage; or any other (provide complete user list of such items).</b>		

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