

Corrigendum

The Pre-bid meeting regarding tender IKGPTU/MC/2018-19/006 for "Supply, Installation, Commissioning and Maintenance of Laboratory Instruments for Department of Chemical Sciences" was held on 23-01-2019 in Department of Chemical Sciences.

The suggestions given by the bidders were examined by the committee and after due deliberations the committee has recommended as follows:

1. Revised specifications as per Annexure "A"
2. It is decided to procure the instruments with **three years comprehensive warranty** instead of one year warranty and two years AMC

Updated specifications will supersede the previously published specifications. Bids with previously published specifications will not be entertained. Rest of the tender document will stand as it is.

All the bidders are required to apply as per the updated specifications with three years comprehensive warranty.

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28/01/19.

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28/1/19

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28/1/19

Dr. (M.V.) *[Signature]*
28/1/19

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28/1/19

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IA-II

REVISED SPECIFICATIONS

ANNEXURE-I

CHAPTER VI

TECHNICAL SPECIFICATION/COMPLIANCE SHEET

CHEMISTRY LABORATORY

Sr. No.	Name of Equipment	Technical Specification(required) Equipment/Item with specifications	Quantity	Specifications (offered)	Whether comply (Yes/No)
1.	FLUORESCENCE SPECTROPHOTOMETER	<p>1. Analysis Capability Fluorescence, Chemi-Luminescence, Bio-Luminescence, Phosphorescence, 3D measurement</p> <p>2. Light Source Xenon Lamp (150 Watt) or better</p> <p>3. Optical System Diffraction/holographic grating: 900 lines/mm or more</p> <p>4. Measuring Wavelength Range (Both Excitation and Emission side) 200 – 900 nm or better</p> <p>5. Sensitivity S/N ratio 900:1 (RMS) or better using Raman band of water, Excitation Wavelength 350 nm, Bandpass 5 nm or 3000:1 (RMS), response time 1 second or better using Raman band of water, Excitation Wavelength 350 nm, Bandpass 10 nm, response time 2 second, suitable cut off filters</p> <p>6. Bandpass Excitation & Emission side variable from 2 to 20 nm</p> <p>7. Resolution 1.5 nm or better</p> <p>8. Wavelength Accuracy 1 nm or better</p> <p>9. Wavelength Scan Speed Up to 15,000 nm/min or better</p> <p>10. Power Requirement 220 – 240 V AC, 50 Hz</p> <p>11. Sample Cell Quartz cell for liquid samples 1 mL (2 Nos) and 3 mL (04 Nos).</p> <p>12. Software The system should be complete in all respects to make it operational. It should be supplied with instruction manuals, pre-loaded softwares, necessary cables, power extensions, and other required accessories. The transfer of digital data files (For eg. ASCII files) to Excel/Origin and processing should be possible</p>	1		

		<p>13. Temperature Controller with stirrer Temperature range 10 to 60 Deg C or better alongwith peltier to maintain desired temperature</p> <p>14. Solid Sample Holder Should be included with the main system for Powder/Films etc</p> <p>15. Computer HP make PC with i3 or better Processor, 4 GB RAM, ITB- HDD, USB, Serial Port, Optical mouse, Keyboard, 19" LED Monitor, Preloaded with Window 10.</p> <p>16. Laserjet Printer</p> <p>17. UPS Suitable online UPS with 30 minutes backup</p> <p>18. Except computer and UPS, all components should be from original Equipment Manufacturer</p> <p>19. Warranty 3 Years Comprehensive warranty for all components</p>			
2.	FTIR SPECTRO-PHOTOMETER	<ol style="list-style-type: none"> 1. Fully Computer Controlled Bench-Top FTIR system. 2. The instrument should indicate whether the source and laser are operational. 3. Wave number range: 7500 to 400 cm⁻¹ or better 4. Wavelength Accuracy: ± 0.1 cm⁻¹ or better 5. Source: Long Life IR Source 6. Detector: DLATGS or equivalent detector with temperature control mechanism. 7. Resolution: 1 cm⁻¹ or better 8. S/N Ratio: 30,000:1 or better peak to peak, 1 min. scan at spectral resolution 4 cm⁻¹. 9. Beam splitter: KBr coated with Germanium (Ge) 10. The software should have real time data collection and should have the facility to continuously monitor the performance of source, detector, power supply and laser. Dedicated IR Pilot program 23 types of dedicated macro programs for contaminant analysis, identification, quantitation 11. Libraries: Built-in Library with atleast 2000 reference spectra 12. Monolithic Diamond Tip ATR for Liquids, Powder, Film samples to cover above mentioned spectral range 13. Transmission Cell with NaCl windows for Liquids 14. Transmission Cell with NaCl windows for Gels and Pastes 15. Hydraulic Press, agate mortar pestle, pellet 	1		

		<p>holder, KBr die, KBr powder etc.</p> <p>16. Appropriate/desirable dehumidifier</p> <p>17. SOFTWARE AND HARDWARE The software should also have: Compare Software, Spectral Search; Quantitative Analysis software Automatic atmospheric suppression; Spectral interpretation for unknowns; Quality checks programs, The transfer of digital data files (For eg. ASCII files) to Excel/Origin and processing should be possible.</p> <p>18. Computer HP make PC with i3 or better Processor, 4 GB RAM, ITB- HDD, USB, Serial Port, Optical mouse, Keyboard, 19" LED Monitor, Preloaded with Window 10.</p> <p>19. Laserjet Printer</p> <p>20. UPS Suitable online UPS with 30 minutes backup</p> <p>21. Training - Satisfactory Technical and application training to the personnel at the site immediately after its installation.</p> <p>22. Warranty – 3 Years Comprehensive warranty for all components</p>			
3	HPLC	<p>Solvent Delivery Unit- Quaternary</p> <ol style="list-style-type: none"> 1. Programmable flow rate range: 0.0001 to 10 mL/min or more. 2. Max. Operating pressure: 400 Bar or more. 3. Flow precision: 0.07 % RSD or less. 4. Flow rate accuracy: 1 % 5. Mixer should be quoted <p>Online Vacuum Degasser</p> <ol style="list-style-type: none"> 6. Flow lines- 4 or more <p>Auto sampler with cooler</p> <ol style="list-style-type: none"> 7. Injection Volume Range: up to 100 uL. 8. Auto sampler carryover: < 0.05 % RSD or better 9. Injection Accuracy: 1 % 10. Sample Delivery Precision: 0.3% RSD or better 11. Sample Cooler Temp- 4 to 40 Degree <p>Column Oven</p> <ol style="list-style-type: none"> 12. Temp setting facility: Ambient -10 to 80 Degrees 13. Temp precision: ± 0.1 °C 14. Column oven with heating and cooling 15. Two Columns up to 250 mm should be accommodated. <p>UV-Vis Detector</p> <ol style="list-style-type: none"> 16. Wavelength range: 200 – 700 nm or better. 	1		

		<p>17. Light source: Deuterium lamp and Tungsten lamp</p> <p>18. Wavelength accuracy: +/- 1nm.</p> <p>19. Data Rate: 80 Hz or Better.</p> <p>20. Noise : $< \pm 0.5 \times 10^{-5}$ AU</p> <p>21. Drift: $< 1 \times 10^{-4}$ AU/hr</p> <p>22. Flow cell: 10mm path length, 10 to 15 ul volume (Analytical standard)</p> <p>Chromatography Software</p> <p>23. Software should be latest, genuine and original.</p> <p>24. Real time triggers to react the condition i.e. to take action on Fault, .Leakage, Stop, Start, wavelength switching, injection etc.</p> <p>25. The software should be 21 CFR compliance.</p> <p>26. The transfer of digital data files (For eg. ASCII files) to Excel/Origin and processing should be possible.</p> <p>Columns</p> <p>27. C18 Analytical Column (250mmx4.6mmx5u)- 2 Nos</p> <p>28. Chiral column- 1 No</p> <p>Computer</p> <p>HP make PC with i3 or better Processor, 4 GB RAM, ITB- HDD, USB, Serial Port, Optical mouse, Keyboard, 19" LED Monitor, Preloaded with Window 10.</p> <p>Laserjet Printer</p> <p>UPS</p> <p>Suitable online UPS with 30 minutes backup</p> <p>Warranty and other terms</p> <p>29. 3 Years Comprehensive warranty for all components</p> <p>30. Vendor should have service center/office in Chandigarh.</p> <p>31. Training should be provided onsite.</p> <p>Optional Item</p> <p>Provision for connecting with PDI and MS detectors</p>			
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I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder

Organization

Designation: _____

Contact No.: _____

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