

Tender Specifications For Supply, Delivery, Installation & Commissioning of True double beam UV-VIS Spectrophotometer

1. Spectrophotometer should be true optical double beam design with reference and sample holders installed as standard.
2. Spectrophotometer should have wavelength range of 190 to 1100nm using tungsten halogen and Deuterium lamps light source.
3. Spectral bandwidth: 1.2 nm or smaller for full wavelength range.
4. Detector: Silicon photodiode
5. Spectrophotometer should offer wavelength accuracy and repeatability min ± 0.2 nm at D2 peak 656.1 nm or better or ± 0.4 nm or better for entire wavelength range.
6. Should have advance scanning speed feature upto 28000nm/min or better.
7. Instrument should offer the lowest possible Stray light less than 0.02%.
8. Noise level: less than 0.00006 Abs or better
9. Photometric accuracy offered should be min ± 0.003 abs or better and Photometric repeatability should be ± 0.0002 Abs min or better.
10. Photometric range: Absorbance : -4 to 4 Abs, Transmittance : 0% to 400%
11. The base line stability of instrument should be less than 0.0003 Abs/ hr.
12. The spectrophotometer must be able to operate as a stand-alone instrument with future upgrade option to software controlled.
13. The standalone instrument should have facility of USB port for easy data back and transfer. Additional USB ports are preferable.
14. The data transfer facility should also be available via network, network printer facility should also be provided in the instrument.

15. Standalone or PC based system should have following function as standard: Photometric, Spectrum, Quantitation, Kinetic, and time course, DNA / Protein. Should also have data processing and maintenance.

Consumables and Accessories:

1. Super Micro Cell Holder 1 No.
2. Super Micro Black Cell (50 – 400ul) 4 Nos.
3. UV 10mm Cell (Matched Pair) 4 Pair
4. Compatible Branded PC & HP LaserJet Printer 1. No
5. 1 KVA Online UPS with 30 Minutes battery backup 1 No.
6. Micropipette) 20- 200 µl) 1 No.
7. Micropipette (5 - 50 µl) 1 No.
8. Micropipette (100 - 1000 µl) 1 No.
9. Micropipette (2 - 20 µl) 1 No.
10. Vortex Spinner for Single Sample 1 No.
11. USB Cable for PC connectivity.

General:

1. Three years comprehensive warranty and 5years CMC should be provided along with the technical support. Required spares and consumables should be provided for a period of 2 years after the 3+5 year period is over
2. It should be CE certified by European notified body (under MDD) along with declaration of conformity or USFDA approved.
3. Demonstration compulsory of quoted model
4. Operating and detailed service manual should be supplied
5. Servicing training to MEC engineers and operational training to the user department
6. Power supply: 230V±10%; 50Hz ±3%.
7. True online UPS with back up of 1 hour

8. Tropicalization:

- Operating temperature. up to 30°C
- Storage temperature: up to 40°C
- Relative Humidity: (i) Operating: up to 60% non condensing
(ii) Storage: up to 90%

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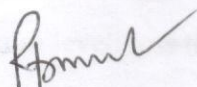
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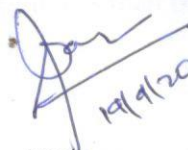
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