

The suppliers are requested to submit quotations for the following equipments by 23rd May, 2012 (Wednesday) to the undersigned in a sealed envelope. The price quoted should be FOB.

1. Spectrofluorimeter/phosphorimeter including 150 W Xe CW and Xe flash lamp with photodiode reference detector (range 200-950 nm).

Additional requirements:

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| 1. Cuvette with an open top | 1 no. |
| 2. Solid state sample holder for front face fluorescence of thin films | 1 No. |
| 3. Filter holder | 1 No. |
| 4. Thermostated single cuvette holder for -20 to 80 °C. | 1 No. |
| 5. Temperature bath with external circulating temperature control (-20 to 80 °C) | 1 No. |
| 6. Dewar Assembly (Liq N ₂ for Phosphorescence) | 1 No |
| 7. Integrating Sphere for quantum yield measurements with a reference for calibration. | 1 No. |

2. HPLC with a quaternary pump with the following requirements.

1. Flow range 0.2 - 10.0 mL/min with a flow precision ≤ 0.07 % RSD or ≤ 0.02 min
2. Operating range up to 60 MPa (600 bar, 8700 psi) up to 5 mL/min and operating range up to 20 MPa (200 bar, 2950 psi) up to 10 mL/min
3. Tool kit and associated software
4. Auto-sampler with 100 vials.
5. Diode Array Detector with Deuterium-Tungsten light source. Wavelength range 200-800 nm with an accuracy of ± 1 nm.
6. Stainless steel (SS) Tubing (7 meters), ferrules (30No.), screws (30no), Joints (10No.), T Joints, Teflon tubing, etc.
7. Chiralpak column set for (analytical) 1 No.
8. Chiralpak column set (preparative, separation) 1 No.

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