

BOSE INSTITUTE
KOLKATA

Tender ID : 2020_BIK_570492_1

Tender No. BI-K/E-TEND/01/2020-21

Tender Title : Procurement of Automated Protein Purification System Analytical cum Semipreparative HPLC with UV Visible Detector Fluorimeter and True Double Beam UV Visible Spectrophotometer

AMENDMENT

Fluorimeter	
Original Specification	Amended Specification
<p>Spectrometer <i>Excitation monochromator</i> Czerny-Turner monochromator, focal length 300 mm or better, accuracy ± 0.3 nm or better, software controlled triple grating turret with grating ≥ 1200 lines/mm, around 300 nm blaze for UV-VIS range. Computer controlled continuously adjustable slit from 0 to 15 nm.</p> <p><i>Emission monochromator</i> Czerny-Turner monochromator, focal length 300 mm or better, accuracy ± 0.3 nm or better, software controlled triple grating turret with grating ≥ 1200 lines/mm, around 400 nm blaze for UV-VIS range. Computer controlled continuously adjustable slit from 0 to 15 nm</p>	<p>Spectrometer <i>Excitation monochromator</i> Czerny-Turner monochromator, accuracy ± 0.3 nm or better, grating ≥ 1200 lines/mm, around 300 nm blaze for UV-VIS range. Computer controlled continuously adjustable slit from 0 to 15 nm.</p> <p><i>Emission monochromator</i> Czerny-Turner monochromator, accuracy ± 0.3 nm or better, grating ≥ 1200 lines/mm, around 400 nm blaze for UV-VIS range. Computer controlled continuously adjustable slit from 0 to 15 nm.</p>
<p>Cell holder with Peltier thermostat (Temp. range: -20 °C or lower to 105 °C, with temp. ramp of $0.1 \sim 20$ °C/min) with appropriate water circulator.</p>	<p>Cell holder with Peltier thermostat (Temp. range: -10 °C or lower to 105 °C or higher, with temp. ramp of $0.1 \sim 20$ °C/min) with appropriate water circulator.</p>

<i>True Double Beam UV-Visible Spectrophotometer</i>	
Original Specification	Amended Specification
Spectral Bandwidth: Variable 0.5 or lower to 5 nm higher	Spectral Bandwidth: 1.0 nm or higher
Instrument should be supplied with Peltier Controlled Cell Holder, with Peltier having the following specifications: - <ul style="list-style-type: none"> • Temperature Control Range: -5 or lower to 75 degree C or higher. • Temperature Control Precision: 0.1 degree C or better. 	Instrument should be supplied with Peltier Controlled Cell Holder, with Peltier having the following specifications: - <ul style="list-style-type: none"> • Temperature Control Range: 0 degree C or lower to 75 degree C or higher. • Temperature Control Precision: 0.1 degree C or better.
Quotation for a 50mm Diffuse reflectance sphere with Powder holder compatible with the quoted model. Quotation for a Diffuse reflectance sphere with Powder holder compatible with the quoted model.	Quotation for a diffuse reflectance sphere with Powder holder compatible with the quoted model. Quotation for a Diffuse reflectance sphere with Powder holder compatible with the quoted model.

Analytical cum Semipreparative HPLC with UV Visible Detector	
Original Specification	Amended Specification
Pressure operating range: 5000 Psi or more	Pressure operating range: 6000 psi or more
Pump Delay Volume: ≤ 1250 µL	Pump delay volume: 500 uL or less.
Light Source : Deuterium Lamp/Xenon Flash Lamp	Light source: Deuterium or Xenon or tungsten
Lamp life: at least 2000 hours, may be met with multiple lamps	Lamp life: Min 2000 hours for each lamp
Degassing unit for all the channels.	Should have technology or system for inline degassing
	Ten (10) or more installation of similar or higher model should be in Eastern India.
Should come with 5, 20, 50, and 200 µl sample loops along with 25µl Hamilton Syringe	Should come with 20, 50, and 200 µl sample loops along with 25µl Hamilton Syringe

Other terms & conditions will remain unaltered.

Registrar (Officiating)