

Ref: INS/L-5528/2017-2018(Y)

Date : 22/09/2017

### ENQUIRY

Dear Sirs,

Please let us have your lowest Quotation for the following :

Sl.No	Cat.No	Item Description	Make/Model	Item Qty	UOM
1		Multimode Microplate Reader(Specifications Attached)	-	1.00	No.

**Remarks :**

**Note :Quotation in USD, GBP, YEN, EURO, CND, SGD, ect will be acceptable.**

1. The bids shall be enclosed in an envelope , and due date sealed duly marked "Tender for \_\_\_\_\_" Ref No : \_\_\_\_\_. The bids should be addressed and to be mailed to **"THE HEAD-PURCHASE"**. The bids are liable to be rejected if the sealed envelope is not addressed to **"THE HEAD-PURCHASE"** with Tender Ref No and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail , it should reach by submission Date and Time and inStem will not be responsible for the delay.

**2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS  
10/10/2017 till 5.30 p.m.**

**3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.**

**4. The Validity of your quotation should be for 60 days from the date.**

**5.All duties,taxes,surcharge and cess as currently applicable must be sated in your quotation,seperately.Otherwise your quote is liable to be rejected.**

**6.Your quotation should indicate delivery period & Warranty period.**

**7.Delivery to be made to our Stores.Please indicate charges,if any extra.Transit Insurance should be done upto inStem Stores.**

**8.If you are unable to supply the quality,specifications or brand as mentioned in our enquiry,Please state so and then offer alternative to quality/Specifications.**

**9.Payment :within one month after delivery & acceptance/satisfactory installation.**

**10.Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.**

**11.Since we are a public funded research institution,we are exempted from paying Customs Duty(Except advolerum duty of 5% + 2% cess and CVD @4% vide Notification No.51/96 with latest amendments) and excise duty vide Notification No.10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments,technical instruments,equipments(including computers),their accessories,spares,consumables and software.Hence,please offer your prices taking this option into consideration.**



**Institute For Stem Cell Biology and Regenerative Medicine**  
Autonomous Institute of the Department of Biotechnology, Government Of India



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**12.If the item is covered under DGS&D rate contract,please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.**

**13.Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees.The decision of the arbitrator shall be final and binding on the parties.The venue for arbitration shall be Bangalore.The provisions of the Arbitration and Concillation Act,1996 as amended from time to time shall apply.The Courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.**

Yours faithfully

For and on behalf of Insitute For Stem Cell  
Biology and Regenerative Medicine

Yesu R

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Institute For Stem Cell Biology And Regenerative Medicine

**Ref No: INS/L-5505/2017-2018(Y)**

**General Specifications for Multimode Microplate Reader**

Dimensions (in.) 8.6 (H) x 22.8 (W) x 15.3 (D)

Dimensions (cm) 22 (H) x 58 (W) x 39 (D)

Weight 36 lbs (16.4 kg)

Power Consumption < 420 watts

Power Source 100-240 VAC, 3 A, 50/60 Hz

Robotic Compatible Yes

**General Photometric performance**

Plate Formats 96, 384 wells

Light Source Xenon Flash Lamp (1 joule/flash)

Detectors 2 photomultiplier tubes

ShakerTime 0 to 999 seconds

Temperature Control 2 °C above ambient to 60 °C



Temperature Uniformity < 1°C at 37°C set point

Temperature Accuracy  $\pm 1^\circ\text{C}$  at 37°C set point

Endpoint Reading All modes

Kinetic Reading All modes

Spectral Scanning All modes

Well Scanning Abs, FI, TRF, Lum

**Standard Read Times  
(minutes:seconds)<sup>††</sup>**

96 wells

384  
wells

Absorbance 0:18 0:49

Fluorescence Intensity 0:17 0:48

Fluorescence Polarization 0:42 2:03

Time-Resolved Fluorescence 0:17 0:48

Luminescence 2:00 7:00

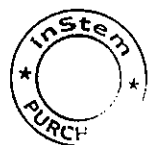
**Absorbance Photometric  
Performance**



Reading Capabilities	Cuvette and microplate
Wavelength Range	200-1000 nm
Wavelength Selection	Monochromator, tunable in 1.0 nm increments
Wavelength Bandwidth	< 4.0 nm
Wavelength Accuracy	$\pm 2.0$ nm
Wavelength Repeatability	$\pm 0.2$ nm
Photometric Range	0-4.0 OD
Photometric Resolution	0.001 OD
Photometric Accuracy (Microplate)	< $\pm 0.006$ OD $\pm 1.0\%$ , 0-2 OD
Photometric Accuracy (Cuvette)	< $\pm 0.005$ OD $\pm 1.0\%$ , 0-2 OD
Photometric Precision	< $\pm 0.003$ OD $\pm 1.0\%$ , 0-2 OD
Stray Light	< 0.05% @ 230 nm

#### **Fluorescence Intensity Performance**

Reading Capabilities	Cuvette or top or bottom of a microplate
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Wavelength Range	250-850 nm
Wavelength Selection	Monochromators, tunable in 1.0 nm increments
Bandwidth (Ex, Em)	9 nm, 15 nm
Optimized sensitivity	$\leq 1$ pM fluorescein in 96 wells $\leq 1.5$ pM in 384 wells
Guaranteed sensitivity**	$< 5$ pM fluorescein in 96 wells or cuvette $< 20$ pM in 384 wells

#### **Luminescence Performance**

Reading Capabilities	Cuvette or top or bottom of a microplate
Wavelength Selection	All wavelengths or with selected wavelengths
Wavelength Range	250-850 nm
Optimized sensitivity	$\leq 43$ pM ATP in 96 wells
Guaranteed sensitivity**	$\leq 75$ pM ATP in 96 wells
Cross-talk	$< 0.3\%$ in 96- and 384-well microplates

#### **Time-resolved Fluorescence Performance**

Reading Capabilities	Top or bottom of a microplate
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Wavelength Range	250-850 nm
Wavelength Selection	Monochromators, tunable in 1.0 nm increments
Bandwidth (Ex, Em)	9 nm, 15 nm
Precision Data Collection	1-100 flashes, delay of 0-600 $\mu$ sec before read, integration time selectable between 50-1500 $\mu$ sec
Optimized sensitivity**	$\leq 10$ fM europium in 96 wells
Guaranteed sensitivity**	$\leq 100$ fM europium in 96 or 384 wells
SpectraMax M5e reader only	Certified to Cisbio Bioassays' HTRF assays performance Specifications

#### **Fluorescence Polarization Performance**

Wavelength Range	400-750 nm
Wavelength Selection	Monochromators, tunable in 1.0 nm increments
Bandwidth (Ex, Em)	9 nm, 15 nm
Guaranteed precision**	$\leq 3,5$ mP standard deviation at 1 nM fluorescein in 96 wells

The system should have the warranty for 3 years

The system should be ISO/CE Certified

The system should be supplied with necessary PC with the system.

The system should be supplied with suitable analysis software with license.

The system should be supplied with all the accessories required to function

