

**All-India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29  
(RESEARCH SECTION)**

**Ref. No. 07/Prop/CCRF/AIIMS/18-19/ST**

**Dated: 08.10.2018**

**Subject: Purchase of Multimode Microplate Reader System for Deptt. of CCRF  
on proprietary basis-Inventing Comments thereon.**

\*\*\*\*\*

To purchase the subject item from M/s Medispec(I) Ltd. (Mfg. by M/s Biotek Instruments, Inc,USA) on proprietary basis. The proposal submitted by M/s Medispec(I) Ltd. and Performa Invoice are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 07/Prop./CCRF/AIIMS/18-19/St.** The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **23/10/2018 upto 12:00 a.m.,** failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**STORES OFFICER (RS)**

**Encl: Related documents enclosed.**

**1. PAC Certificate enclosed.**

**2. Performa Invoice**

Finalized specifications

Uyagi  
20/8/18

On Proprietary basis

No of Units: 4

Approximate cost: 24 lakhs

**Technical Specifications for Multi-mode Microplate Reader with Imaging Capability**

The instrument should be compact and bench top model with the following features:

1. The machine should have the following detection Modes:  
UV-VIS absorbance, Fluorescence intensity, Luminescence (glow), Time- resolved Fluorescence.
  - a) absorbance Range - 200-900 nm monochromator based with 1 nm increment  
  
Read method should include endpoint, kinetic, spectral scanning, well area scanning.  
Capacity to measure OD range 0 - 4.0 OD  
Detector for absorbance – photo-diode.
  - b) fluorescence intensity: - 250-700 nm  
  
Reading method: with the top probe.  
Detector - PMT
  - c) Luminescence 300-700 nm  
Detector- PMT
2. Light source for absorbance and fluorescence: Xenon flash lamp.
3. The machine should have at least two shaking modes available i.e. linear and orbital
4. Temperature control: Incubation at ambient temperature ( $4^{\circ}\text{C}$  to  $45^{\circ}\text{C}$ ) with condensation control.
5. Plate compatibility: Should be compatible with a broad range of plates including 6-well, 12-well, 24-well, 48-well, 96-well, 384-well.
6. The machine should have the capability to estimate nucleic acids (DNA/RNA) in 2-3 microliter sample volume. The appropriate accessory plate/module to estimate nucleic acids should be provided.
7. The machine should come with quartz cuvettes/bio cell (at least 3 each for fluorescence and absorbance for each machine) and microplates (at least 25 each for fluorescence, absorbance and luminescence for each machine) over entire wavelength range.
8. The machine should have imaging capabilities with the following features:

WZ/ada

an  
Biology  
insect

Uthand  
- of (Gandhi)

R. Chaudhary  
B  
(S. Chaudhary)

Uyagi  
(J. Uyagi)

- a) Imaging camera: - 16-bit camera CCD with 1.2 mega-pixel
- b) Should have the option to image 6-well, 12-well, 24-well, 48-well, 96-well, 384-well microplates, and microscope slides.
- c) Light source: High power LED.
- d) Imaging method: single colour image capture, Image Zoom, Image focus.
- e) Colours: - Any two filters such as DAPI, GFP/FITC, Texas Red, Propidium Iodide (PI) etc. (Please refer to Table 1).
- f) Should have a provision to add at least 2 more colours for Imaging.
- g) LED: - compatible with the selected filters above.
- h) The instrument should be supplied with 10X or 20X or 40X objective lens and should have the capacity to hold at least 2- objectives lenses.

**For point 8, the base Unit cost will include price of 1 objective (any objective up to 40X) and 2 filters (any two filters listed in the table 1 provided at end of this document).**

- 9. The instrument should be supplied with the manufacturers image controller and monitor or all in one branded computer with minimum 8 GB RAM and 1TB Hard disk with latest i processor along with online UPS (1KVA) with minimum half an hour backup. The machine should be compatible with Wi-Fi connectivity and should have ports for data transfer (HDMI and USB).
- 10. Software integrated system- to have data acquisition, analysis and management capabilities. Should allow cross-plate analysis and custom calculations. Software should be upgradable Free of cost during the lifetime of the instrument and should be supplied with minimum 3 software licenses per machine.
- 11. Power consumption of the instrument should be compatible with Indian Electrical supply.
- 12. Provide all cables/accessories for operating the equipment and use all features.
- 13. The machine should have the provision for future upgradation of the following features:
  - a. There should be a provision for higher objectives like 60X with upgraded software.
  - b. Machine should be upgradable to higher software with a capability of montage, Z-stacking, time lapse Imaging, Image- stitching. Software should be upgradable Free of cost during the lifetime of the instrument and should be supplied with a minimum 3 software licenses per machine.

*Handwritten signature*

*Handwritten signature*

*Handwritten signature: R. Chaudhary*

*Handwritten signature*

*Handwritten signature*

- c. There should also be an upgrade option available to image T25 flask, petri and cell culture dishes with suitable adapters. There should be a CO<sub>2</sub> and O<sub>2</sub> gas controller option for live cell imaging.
  - d. Machine should be upgradable to add Injectors for flash luminescence and ATP assays.
  - e. Price to be quoted of upgrades listed under 13 a, 13 b, 13 c and 13 d along with the upgraded software.
14. The machine should be CE (Europe)/UL /EMC/CSA certified.

**Other Requirements:**

1. To provide onsite training in various application as required for a minimum period of 3 years.
2. Biannual preventive maintenance should be provided.
3. Vendor should submit an undertaking from manufacturer to take the responsibility of maintenance in case of merger or acquisition.
4. Warranty: 5 years comprehensive warranty (including all spares (including light source) and labor)
5. 5 years CMC (6<sup>th</sup>-10<sup>th</sup> year) after completion of the warranty period with spares and labor.
6. Spares parts:
  - a) The separate price list of all spares and accessories (Including minor) required for maintenance and repairs in future after warranty period must be attached/enclosed along with the sealed quotation without which this quotation will not be considered.
  - b) Performance Bank guarantee for 10% of the total cost shall be submitted by the successful bidder valid till the warranty period.
8. Penalty clause as per standard.
  - a. During the Guarantee period, the instrument should be able to provide 95% uptime efficiency of 365 days (24 hrs). If downtime is more than 5%, the Institute shall be entitled to impose penalty equal to amount of 1% of the total cost of the equipment per day for the first seven days will be payable by the vendor which will doubled on subsequent weeks along with extension of guarantee period by the excess down time period. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least Five Years after handing over the unit to the Institute. If accessories/other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the CAMC from the third party separately along with the main offer and the third party will have to sign the CAMC with the Institute if required.
  - b. The principals or other agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.
7. Only Principal Companies or Authorized Distributors from Principal companies should quote. Quotations from non - authorized distributors will not be entertained. Features in the quotations should be substantiated with proper Principal Company Catalogue.

*Signature*  
Kapoor L

*Signature*  
Renuaundry

*Signature*

*Signature*  
Vijay



8. Copies of all certifications e.g. Quality Standard certificate, Proprietary Item/parts, Patent of parts/technology, Principal company/Authorised Distributorship should be attached with the quotations.

9. In-House service Engineers from principal company/ or authorized agents should be available in India on 24-hour notice basis in case of emergency (this will apply for that equipment wherein this clause is not built into the specification).

10. Compliant points should be given (in the sheet) in order of the specifications' serial order. Compliant points should be highlighted in the company catalogue with page number.

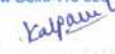

11. Catalogue and user list of equivalent system operational at Govt. Institution/reputed private institutions to be provided with telephone numbers and email addresses. Should have quality and performance certification from end users (recent; preferable within 2 years).



13. The tender should be floated in 2-bid system.



14. In the technical bid, certificate from the manufactures to give guarantee that in case authorized agent is changed from the time of purchase, uninterrupted service will be provided by the new agency whosoever is now authorized to represent the original manufacturer failing which their bids are liable to be rejected.



  
Prof. Jaya S. Tyagi  
Chairman & HOD, Biotechnology  
Convenor CCRF committee  
 **डॉ. जया सिवस्वामी त्यागी**  
**Dr. Jaya Sivaswami Tyagi**  
आचार्य एवं विभागप्रमुख/Prof. & Head  
जैव प्रौद्योगिकी विभाग/Dept. of Biotechnology  
अ.भा.आ.प., नई दिल्ली/A.I.I.M.S., New Delhi-29

  
Prof. Sanjeev Sinha  
Dept. Of Medicine  
 **DR. SANJEEV SINHA**  
MBBS, MD (Medicine), MNAMS  
Consultant Physician  
Professor  
Department of Medicine  
All India Institute of Medical Sciences  
New Delhi-110 029

Prof. Kalpana Luthra  
Dept. of Biochemistry  
  
 **Prof. Kalpana Luthra (Ph.D.)**  
अ.भा.आ.प., नई दिल्ली/A.I.I.M.S., New Delhi-29  
सहायक आचार्य/Assistant Professor  
जैव विज्ञान विभाग/Dept. of Microbiology  
अ.भा.आ.प., नई दिल्ली/A.I.I.M.S., New Delhi-29

Dr. Kiran Bala  
Asst. Professor, Dept. of Microbiology  
  
 **डॉ. किरण बाला**  
**Dr. KIRAN BALA, MD**  
सहायक आचार्य/Assistant Professor  
जैव विज्ञान विभाग/Dept. of Microbiology  
अ.भा.आ.प., नई दिल्ली/A.I.I.M.S., New Delhi-29

  
Prof. Rama Chaudhary  
Professor, Dept. of Microbiology  
 **PROF. RAMA CHAUDHARY**  
Department of Microbiology  
A.I.I.M.S., Ansari Nagar, New Delhi  
ASM International Ambassador of India

  
Prof. Lalit Dhar  
Professor, Dept. of Microbiology  
 **DR. AASHISH CHOUDHARY**  
Assistant Professor  
Department of Microbiology  
AIIMS  
New Delhi -110029

  
Dr. Vikram Saini  
Asst. Professor, Dept. of Biotechnology  
 **डॉ. विक्रम सैनी**  
**Dr. VIKRAM SAINI**  
सहायक आचार्य/Assistant Professor  
जैव प्रौद्योगिकी विभाग  
Dept. of Biotechnology  
अ.भा.आ.प., नई दिल्ली/A.I.I.M.S., New Delhi-29

Table 1. Price of individual Filters, lens and other accessories as per point 13

Description	Excitation	Emission	Mirror	P/N	Description	Price
DAPI filter cube	377/50	447/60	409	1225007	365 nm	\$3,704
GFP filter cube	469/35	525/39	497	1225001	465 nm	\$3,704
Texas Red filter cube	586/15	647/57	605	1225002	590 nm	\$3,704
RFP filter cube	531/40	593/40	568	1225003	523 nm	\$4,020
YFP filter cube	500/24	542/27	520	1225004	505 nm	\$4,020
CY5 filter cube	628/40	685/40	660	1225005	623 nm	\$4,020
CY7 filter cube	716/40	809/81	757	1225006	740 nm	\$4,020
CFP filter cube	445/45	510/42	482	1225001	465 nm	\$4,020
Acridine Orange filter cube	469/35	647/57	605	1225001	465 nm	\$4,020
CFP-YFP FRET filter cube	445/45	542/27	482	1225001	465 nm	\$4,020
Propidium Iodide (PI) filter cube	531/40	647/57	605	1225003	523 nm	\$4,020
Chlorophyll A filter cube	445/45	685/40	482	1225001	465 nm	\$4,020
Phycocerythrin (PE) filter cube	469/35	593/40	568	1225001	465 nm	\$4,020
CY5.5 filter cube	647/57	794/160	695	1225008	655 nm	\$4,020
TagBFP filter cube	390/18	447/60	409	1225009	390 nm	\$4,020
GFP excitation - CY5 emission	469/35	685/40	660	1225001	465 nm	\$4,020
RFP excitation - CY5 emission	531/40	685/40	660	1225003	523 nm	\$4,020
CFP FRET V2 filter cube	400/40	482/25	442	1225011	405 nm	\$4,020
CFP/YFP FRET V2 filter cube	400/40	550/49	442	1225011	405 nm	\$4,020
377 / 647 filter cube	377/50	647/57	409	1225007	365 nm	\$4,020
Oxidized roGFP2 filter cube	400/40	525/39	442	1225011	405 nm	\$4,020
400 / 647 filter cube	400/40	647/57	442	1225011	405 nm	\$4,020

Item code	Catalog Id	Description	Quantity	Price
A -1	1220519	4X Imaging Objective	01	\$ 1,900.00
2	1220518	10 X Imaging Objective	01	\$ 2,960.00
3	1220517	20 X Imaging objective	01	\$ 4,700.00
4	1220544	40 X Imaging objective	01	\$ 7,900.00
5	1220545	60x Imaging objective	01	\$ 12,300.00

as  
ch

Remanding  
v

Mapi

<b>B1</b>	Gen5IPLUS	Gen5 I plus Software with features offering advanced image processing and analysis. Image stitching of Montage, Cellular analysis (shape, size, area, sub Population), License for 3 installations.	01	\$ 9,870.00
<b>B2</b>	Gen5Image prime	Features offering superior image processing and analysis with Advance cellular analysis /histograms for visualizing cells, Two analysis masks of cytoplasmic signal, signal translocation) License for 3 installation.	01	\$ 15,900.00
<b>C</b>	1210013	CO <sub>2</sub> and O <sub>2</sub> gas controller, white, Includes CO <sub>2</sub> and N <sub>2</sub> flow meters & tubing set (p/n 1213033 and p/n 1213032).	01	\$ 9,000.00
<b>D</b>	8040030	Dual reagent injector module, white, Includes module, two syringes, tubing, two 30 mL bottles and injector feed through assembly.	01	\$ 7,800.00
<b>E</b>	1222240	Petri dish adapter, 2 x 35 mm dishes	01	\$ 415.00
<b>F</b>	1650516	4 position slide holder	01	\$ 435.00
<b>G</b>	1220548	2 position slide holder compatible with Bio stack.	01	\$ 615.00
<b>H</b>	1222241	Petri dish adapter, 60 mm dish	01	\$ 415.00
<b>I</b>	1222242	Petri dish adapter, 100 mm dish	01	\$ 545.00
<b>J</b>	1222210	T25 /T75 Flask adapter	01	\$ 392.00
<b>K</b>	1450541	<b>Multi-Vessel Adapter</b> -Adjustable holder for use with a variety of labware, including slides, Petri/cell culture dishes, chamber	01	\$ 517.00

**Note:** Above prices are in USD with a warranty of 5 years.

*Adh*  
(Arashish Chaudhary)

*Kapam L*  
(Kapam Luthra)

*Renuka*

*Q2*  
(Kumar)

*Vinay*  
(Vasani)

*Σ*

*Vijay*

**Justification for procurement of Multi-mode Microplate Reader with Imaging Capability on proprietary basis (4 nos., ~ 24 lakhs each)**

The CCRF and BSL laboratories require a standalone multi mode instrument with ability to perform multiple functions and measurements, namely uv-visible absorbance, fluorescence, luminescence and cell imaging. One system is required for BSL 3 TB/Bacteriology, BSL3 Virology, BSL 2 laboratories and General Facility. It should have capability to cater to a variety of applications required by various investigators of AIIMS for carrying out imaging, diagnostic applications, gene expression analysis and drug discovery applications. A compact system is required to fulfil the requirements in the limited space that is available.

AIIMS requires to analyse hundreds of samples per day for suspected bacterial and viral infections in clinical microbiology unit. A minimum magnification required to see bacteria, or a parasite is 40X to 60X. This imaging capability is essential to provide a rapid and accurate diagnosis. Moreover flexibility and high throughput capability is required in a central facility in terms of multi-mode capability (absorbance, fluorescence, luminescence and cell imaging), compatibility with a range of sample plates (6 well to 384 well plates), cuvette, microscope slides and culture flasks (T25 etc) for catering to the needs of multiple users, for reducing the turnaround time for diagnosis and increasing diagnostic efficiency and productivity. A system to enable real time and simultaneous measurements of host-pathogen interactions, gene expression, intracellular localization of bacteria, intracellular growth and infection is required. The system should have capability to quantitate DNA and RNA in sample using only 2 ul of samples in at least 15-16 samples at one time. Moreover, in future if there is a requirement to upgrade the system for more advanced applications such as live cell imaging, the system should be upgradable. To the best of our knowledge, the Cytation 1 Cell Imaging Multi-Mode Reader is the only standalone system that fulfils all our requirements in a single equipment.

*N. Singh*





**PROPRIETARY EQUIPMENT**

To,  
The Director  
All India Institute of Medical Sciences,  
Ansari Nagar,  
New Delhi 110029, India

Dated: 25/08/2018  
Ref.: 15-MIL-N-08-1786-BTQ  
Validity: 120 days

Attn.: Dr. Jaya Tyagi  
Department of Biotechnology

Sub.: Quotation for the supply of Cell Imaging Multimode Microplate Reader.

Dear Sir,

We thank you for your above mentioned requirement, further to it, please find herewith our offer for the same.

We represent **BIOTEK INSTRUMENTS, INC., U.S.A.** for their complete range of Microplate Instrumentation. **BIOTEK** are pioneers & world leader in Microplate ELISA Instrumentation. Product range includes; Automated & Manual ELISA Readers, Microplate / Strip Washers, Multimode Microplate Reader, Cell Imaging Multimode Microplate Reader, Microplate Fluorescence Readers & Microplate Scanning Spectrophotometers.

We hope our offers are in accordance with your requirement. If you need any further details / clarifications, feel free to contact us.

Looking ahead to be of service,

Yours faithfully,  
For MEDISPEC (I) LTD



Mayank Dandriyal  
M-09350641615  
Unit 210, IInd Floor, Block - E,  
DDA., L.S.C. Market, Vikaspuri, New Delhi-110018.  
Ph. 011 - 28533230, 49095625  
Email: mayankd@medispec.in, [delhi@medispec.in](mailto:delhi@medispec.in)

Contd...

**MEDISPEC (I) LTD**

A WING, 601, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI - 400 063. INDIA



**PROPRIETARY EQUIPMENT**

To,  
The Director  
All India Institute of Medical Sciences,  
Ansari Nagar,  
New Delhi 110029. India

Dated: 25/08/2018  
Ref.: 15-MIL-N-08-1786-BTQ  
Validity: 120days

Attn.: Dr. Jaya Tyagi  
Department of Biotechnology

Sub.: Quotation for the supply of Cell Imaging Multimode Microplate Reader.

SR. NO	CAT. NO.	DESCRIPTION	Qty.	USD Per Unit	PRICE IN USD-(4 Qty)
1.	CYT1-FAV	<b>Cytation™ 1 Cell Imaging Multi-Mode Reader</b> Cytation 1 with fluorescence and high contrast brightfield imaging, filter-based fluorescence and luminescence, monochromator-based UV-Vis absorbance. Includes imaging controller and Gen5 Software. <b>General:</b> Microplates: 6- to 1536-well microplates, 1.0" maximum height Temperature control: 4-Zone™ incubation to 45 °C with Condensation Control™ Shaking: Linear, orbital, double orbital. Software: Gen5™ Microplate Reader and Imager Software included. <b>Imaging:</b> Imaging modes: Fluorescence and high contrast brightfield. Imaging methods: Single color, multi-color, montage, time lapse, Z-stacking Light source: High power LEDs. Camera: 16-bit gray scale, Sony CCD, 1.25 megapixel. Resolution: 0.3 µm/pixel at 20x. Filter cube capacity: Up to 4 onboard, user-replaceable cubes. Colors available: More than 15 colors. Objective capacity: 2 onboard, user-replaceable objectives. Automated functions: Autofocus, user-trained autofocus, autoexposure, auto-LED intensity. Autofocus methods: Image-based autofocus. <b>Fluorescence Intensity:</b> Light source: Xenon flash lamp. Detector: PMT. Read methods: End point, kinetic, area scanning, inject/read process. Wavelength selection: Deep blocking bandpass filters/dichroic mirrors. Dynamic range: 7 decades. Sensitivity: Fluorescein: 0.25 pM (0.025 fmol/well, 384-well plate). Read speed: 96 wells: 11 seconds; 384 wells: 22 seconds. <b>Luminescence:</b> Sensitivity: 10 amol ATP (flash); 100 amol (glow). Read modes: End point, kinetic, area scanning, inject/read process. Fluorescence Polarization Sensitivity: 1.2 mP standard deviation at 1nM fluorescein. Wavelength range: 400 – 700 nm. Read modes: End point, kinetic, inject/read process. <b>Time-Resolved Fluorescence:</b> Sensitivity: Europium 40 fM (4 amol/well, 384-well plate)	01	35,400	1,41,600.0



**MEDISPEC (I) LTD**

A WING, 801, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI – 400 063. INDIA  
 TEL : +91 22 18810036 / 37 EMAIL : medispec@medispec.in WEB : www.medispec.in FAX : +91 22 18810038/39/40

		<b>Absorbance:</b> Light source: Xenon flash lamp Wavelength selection: Monochromator Wavelength range: 200 – 999 nm, 1 nm increment Bandwidth: 2.4 nm Dynamic range: 0 – 4.0 OD Resolution: 0.0001 OD <b>Includes Gen5 Data reduction software for computer control</b> Includes; multilevel transformations, cutoff, Validation formulas & flexible reading modes for variety of applications. Power: 100-240 VAC, 50/60 Hz (24VDC external power supply, 160W min) Dimensions: 20" D x 16.5" W x 17.5" H (50.8 cm x 41.91 cm x 44.5 cm) Weight: 65 lbs (29 kg).		
1220518	20 x Imaging objective		02	
1220544	40x Imaging objective		02	
1225100	DAPI filter cube		04	
1225101	GFP filter cube		04	
1225007	365 nm LED cube		04	
1225001	465 nm LED cube		04	
	<b>Multi-Volume plate:</b> Microspots: Up to Sixteen 2µL samples can be run at one time for direct nucleic acid and protein quantification. BioCell locations available for quick 1cm pathlength measurements. A standard stoppered cuvette can be measured. Sample Volume: Minimum 2µL in microspot locations Optical Pathlength: 0.5mm, Detection Limit: 2 ng/µL		04	
1650516	4 position slide holder			
7272051	Quartz cuvettes/bio cell for fluorescent and absorbance		12	
			Total F.C.A., USA	1,40,800.0
			Add: Estimated Freight & Insurance Charges	1,200.0
			<b>Total CIP, IGI New Delhi Airport</b>	<b>1,42,000.0</b>

**OPTIONAL ACCESSORIES FROM BIOTEK INSTRUMENTS INC. USA**

A	1220519	4X Imaging Objective	01	\$ 1,900.00
B	1220518	10 X Imaging Objective	01	\$ 2,960.00
C	1220517	20 X Imaging objective	01	\$ 4,700.00
D	1220544	40X Imaging objective	01	\$ 6,900.00
E	1220545	60X Imaging objective	01	\$ 12,300.00
F	Gen5IPLUS	Gen5 I plus Software with features offering advanced image processing and analysis. License for 3 installations.	01	\$ 9,800.00



**MEDISPEC (I) LTD**

A WING, 601, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI – 400 063. INDIA  
 TEL : +91 7718810036 / 37 EMAIL : medispec@medispec.in WEB : www.medispec.in CIN : U12422MH1995PLC001242

G	1210013	CO <sub>2</sub> and O <sub>2</sub> gas controller, white, Includes CO <sub>2</sub> and N <sub>2</sub> flow meters & tubing set (p/n 1213033 and p/n 1213032).	01	\$ 9,000.00
H	8040030	Dual reagent injector module, white, Includes module, two syringes, tubing, two 30 mL bottles and injector feedthrough assembly.	01	\$ 7,800.00
I	1222240	Petri dish adapter, 2 x 35 mm dishes	01	\$ 415.00
J	1222241	Petri dish adapter, 60 mm dish	01	\$ 415.00
K	1222242	Petri dish adapter, 100 mm dish	01	\$ 545.00
L	1222210	T25 Flask adapter	01	\$ 392.00
M	1450541	Multi-Vessel Adapter	01	\$ 517.00
N	1760012	<b>(HP Desktop Mini) – COMPUTER FROM USA</b> Windows version Win 10 Professional 64 bit Processor Intel 7500 i5 RAM 8GB Hard Drive 512GB SSD USB Ports 4 USB 3.0 (2 front/2 back), 2 USB 2.0 (back)* Pre-loaded software Adobe Acrobat Reader Office Installer File** WiFi, Bluetooth No • 24" LED color monitor (PN 02346) • Keyboard & mouse • Installation instructions (PN 1761009) • Power cords	01	\$ 1,800.00

**ACCESSORIES FROM INDIAN MARKET- FREE OF COST :**

a.	--	Microplates for Fluorescence, Absorbance, Luminescence.	100	FOC
b.	--	Suitable all in one branded computer with 8 GB RAM, 1TB Hard disk with i5 processor Wi-Fi connectivity, USB Ports for data transfer or equivalent	04	FOC
c.	--	Suitable online UPS (1KVA) with minimum half an hour backup.	04	FOC

**\*Inclusive of taxes**

Contd...4



**MEDISPEC (I) LTD**

A WING, 601, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI – 400 063. INDIA  
 TEL : +91 7718810036 / 37 EMAIL : medispec@medispec.com





**FILTER LIST WITH PRICES FOR IMAGING.**

Description	Excitation	Emission	Mirror	P/N	Description	
DAPI filter cube	377/50	447/60	409	1225007	365 nm	\$3,704
GFP filter cube	469/35	525/39	497	1225001	465 nm	\$3,704
Texas Red filter cube	586/15	647/57	605	1225002	590 nm	\$3,704
RFP filter cube	531/40	593/40	568	1225003	523 nm	\$4,020
YFP filter cube	500/24	542/27	520	1225004	505 nm	\$4,020
CY5 filter cube	628/40	685/40	660	1225005	623 nm	\$4,020
CY7 filter cube	716/40	809/81	757	1225006	740 nm	\$4,020
CFP filter cube	445/45	510/42	482	1225001	465 nm	\$4,020
Acridine Orange filter cube	469/35	647/57	605	1225001	465 nm	\$4,020
CFP-YFP FRET filter cube	445/45	542/27	482	1225001	465 nm	\$4,020
Propidium Iodide (PI) filter cube	531/40	647/57	605	1225003	523 nm	\$4,020
Chlorophyll A filter cube	445/45	685/40	482	1225001	465 nm	\$4,020
Phycoerythrin (PE) filter cube	469/35	593/40	568	1225001	465 nm	\$4,020
CY5.5 filter cube	647/57	794/160	695	1225008	655 nm	\$4,020
TagBFP filter cube	390/18	447/60	409	1225009	390 nm	\$4,020
GFP excitation - CY5 emission	469/35	685/40	660	1225001	465 nm	\$4,020
RFP excitation - CY5 emission	531/40	685/40	660	1225003	523 nm	\$4,020
CFP FRET V2 filter cube	400/40	482/25	442	1225011	405 nm	\$4,020
CFP/YFP FRET V2 filter cube	400/40	550/49	442	1225011	405 nm	\$4,020
377 / 647 filter cube	377/50	647/57	409	1225007	365 nm	\$4,020
Oxidized roGFP2 filter cube	400/40	525/39	442	1225011	405 nm	\$4,020
400 / 647 filter cube	400/40	647/57	442	1225011	405 nm	\$4,020



Contd...5

**MEDISPEC (I) LTD**

A WING, 601, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI - 400 063. INDIA



### TERMS AND CONDITIONS

1. Prices quoted are C.I.P., New Delhi Airport in US Dollars.
2. Payment by 100% FDD or Wire transfer in favour of our principals;  
**BIOTEK INSTRUMENTS, INC.  
100 TIGAN STREET, WINOOSKI,  
VT 05404, U.S.A.**
3. Banker Details:  
**J.P. MORGAN CHASE BANK,  
NEW YORK ABA # 021000021.  
ACCOUNT NO. 0000 213595  
FOR BIOTEK INSTRUMENTS INC.  
NEW YORK SWIFT ADDRESS: CHASUS33**
4. Country of Origin: U.S.A.
5. Port of Shipment: USA
6. Order to be placed directly on our principals with copy to us.
7. Estimated Delivery / Available for Shipment: Within 8 – 10 weeks.
8. Warranty: FIVE (05) years comprehensive warranty (including all spares (including light source) and labor) from the date of installation.
9. After completion of warranty, 5-years CMC (6th – 10<sup>th</sup> year) per year as given below for per Unit;
  - a. For 6<sup>th</sup> year Rs. 1,00,000/- + GST as applicable
  - b. For 7<sup>th</sup> year Rs. 1,10,000/- + GST as applicable
  - c. For 8<sup>th</sup> year Rs. 1,21,000/- + GST as applicable
  - d. For 9<sup>th</sup> year Rs. 1,33,100/- + GST as applicable
  - e. For 10<sup>th</sup> year Rs. 1,46,410/- + GST as applicable
10. After sales, service support to be provided by our nearest branch office.
11. Installation & demonstration free of cost at site.

For MEDISPEC (I) LTD



Mayank Dandriyal  
Mobile: 09350641615  
Unit 210, IInd Floor, Block - E,  
L.S.C. Market, Vikaspuri, New Delhi -110018.  
Ph. 011-28533230, 49095625  
Email: mayankd@medispec.in, delhi@medispec.in

Contd...5

## **MEDISPEC (I) LTD**

A WING, 601, LOTUS CORPORATE PARK, JAY COACH, OFF W. E. HIGHWAY, GOREGAON EAST, MUMBAI – 400 063. INDIA



**BioTek Instruments, Inc.**  
Highland Park, P.O. Box 998  
Winooski, Vermont 05404-0998, USA

Tel: 888-451-5171  
Fax: 802-655-7941  
Outside the USA: 802-655-4740  
E-mail: [sales@biotek.com](mailto:sales@biotek.com)  
[www.biotek.com](http://www.biotek.com)

## LETTER OF AUTHORIZATION

Winooski, November 9, 2016

We hereby confirm and state that:

MEDISPEC (I) LTD.  
A WING, 601, LOTUS CORPORATE PARK  
OFF W.E. HIGHWAY, JAY COACH  
GOREGAON (EAST), MUMBAI 400 063, INDIA  
TEL: 91-7718810036/37  
EMAIL: [medispec@medispec.in](mailto:medispec@medispec.in)  
WEBSITE: [www.medispec.in](http://www.medispec.in)

are our exclusive and authorized distributor in India for entire Biotek range of laboratory products.

This authorization is valid until December 31, 2018.

MEDISPEC can quote and carry out the negotiations in connection with the same.

It is also certified that the distributor, MEDISPEC has sufficient number of Engineers trained by us at our factory to carry out installation and to provide effective after sales service for BioTek products.

BioTek Instruments, Inc. also undertakes to provide spares to the distributor as and when required for servicing of equipment for a period of 5 years in the event of discontinuation of the equipment.

BioTek Instruments, Inc.

Kelly Piotrowicz  
BioTek Instruments, Inc.  
International Sales and Marketing





BioTek Instruments, Inc.  
Highland Park, P.O. Box 998  
Winooski, Vermont 05404-0998, USA

Tel: 888-451-5171  
Fax: 802-655-7941  
Outside the USA: 802-655-4740  
E-mail: [sales@biotek.com](mailto:sales@biotek.com)  
[www.biotek.com](http://www.biotek.com)

#### MANUFACTURER'S CERTIFICATE

To,  
The Director  
All India Institute of Medical Sciences,  
Ansari Nagar,  
New Delhi 110029. India

23<sup>rd</sup> August, 2018  
#23-08-1819-BTQ

Sub.: Quotation for the supply of Cell Imaging Multimode Microplate Reader.

Dear Sir,

We, BioTek Instruments Inc. who are proven and reputable manufacturers of CYT1FAV – Cell Imaging Multimode Microplate Reader having factory at Highland Park, Winooski, Vermont 05404-0988 USA hereby authorise Messrs MEDISPEC (I) LTD, "A" Wing, 601, Lotus Corporate Park, Jay Coach, Off. W. E. Highway, Goregaon (East), Mumbai – 400 063, India to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We guarantee that in case authorized agent changed from the time of purchase, uninterrupted service will be provided by the new agency whosoever is now authorized to represent the original manufacturer.

Yours faithfully,  
FOR BIOTEK INSTRUMENTS, INC.

*Kelly Piotrowicz*



Kelly Piotrowicz  
International Marketing and Sales







BioTek Instruments, Inc.  
Highland Park, P.O. Box 998  
Winoski, Vermont 05404-0998, USA

Phone: 888-451-5171  
Fax: 802-655-7941  
Outside the USA: 802-655-4740  
Email: [sales@biotek.com](mailto:sales@biotek.com)  
[www.biotek.com](http://www.biotek.com)

October 3, 2018

## TO WHOM SO EVER IT MAY CONCERN

### PROPRIETARY CERTIFICATE

This is to state and confirm that Cytation™1 Cell Imaging Multimode Microplate Reader is our proprietary product and to the best of our knowledge we are the only manufacturer. This intellectual property is protected by the US patent 9,557,217 for imaging and microplate reading in a single instrument.

**Features being** - True automated digital Microscopy (Fluorescence and High Contrast Brightfield) and Multi-mode detection in one single system. Have multiple Microscope objective capacity ranging from 1.25 X to 60 X. Multiple microscopy color channels (up to 4 channels) especially DAPI, FITC, Propidium Iodide (PI) and more. 1.25X to 60X magnification covers broad imaging applications including imaging of plates (with 6- to 1536-well microplates), microscopic slides, petri-dishes and culture flasks (T25 etc). 16-bit CCD camera for dynamic range of >65,000 fluorescence units.

BioTek Instruments, Inc.


Steven Fisher  
Regional Sales Manager – Asia Pacific / Middle East / Africa



ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-110029

PROPRIETARY/SPECIFIC GOODS CERTIFICATE

1. Item/Type/Model No. required : Multimode Microplate Reader
2. Is the item a spare part attachment or accessory for an existing equipment. : No
3. Name of the manufacturers/supplier : M/s. Biotech Instruments, USA
4. Are they sole manufacturers/sold distributors of the item. : Yes,
5. Is there any other item with similar/ equivalent specification available in the Market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other. : Not available to the best of our knowledge
6. What were the efforts made the locate other substitutes. : Through net search and local dealers
7. Why open/limited tender can't be Resorted to for locating alter native source. : Because Goods is proprietary item
8. Are the proprietary items certifying that the rates are reasonable or not. : Rates are reasonable proprietary certificate enclosed
9. Any other justification for procuring : Item most suitable for research work.

  
Signature of Indentor  
(Demanding Officer)

  
COUNTERSIGNE  
(Head of the Department)

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of subbly is definitely known/the specified brand proposed was advantages in meeting our functional requirement and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(Strike out whichever in not applicable)

  
12/1/18

  
12/1/18

  
12/1/18

## USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Bottom](#)[View Cart](#)[Add to Cart](#)[Images](#)

(1 of 1)

United States Patent

9,557,217

Zimenkov, et al.

January 31, 2017

Universal multidetection system for microplates

### Abstract

An apparatus for optically analyzing a sample may include an imaging subsystem that images the sample, one or more analyzing subsystems that analyze the sample, a temperature control subsystem that controls a temperature of the atmosphere within the apparatus, a gas control subsystem that controls a composition of the atmosphere within the apparatus, and a control module that controls the various subsystems of the apparatus.

**Inventors:** Zimenkov; Oleg (South Burlington, VT), Amouretti; Xavier (Essex Junction, VT), Kontorovich; Michael (Colchester, VT), Norris; Ben (Monkton, VT), Sears; Richard N. (Jericho, VT), Venditti, Jr.; Dan J. (Colchester, VT), Many; Christopher (Highgate, VT), Anderson; Bill (Westford, VT), Knight; Ben (Burlington, VT), Piette; James (Winooski, VT), Piette; Ross (Essex Junction, VT), Tobey; Joe (Essex, VT), Ferris; Brian (Georgia, VT)

Applicant:	Name	City	State	Country	Type
	Zimenkov; Oleg	South Burlington	VT	US	
	Amouretti; Xavier	Essex Junction	VT	US	
	Kontorovich; Michael	Colchester	VT	US	
	Norris; Ben	Monkton	VT	US	
	Sears; Richard N.	Jericho	VT	US	
	Venditti, Jr.; Dan J.	Colchester	VT	US	
	Many; Christopher	Highgate	VT	US	
	Anderson; Bill	Westford	VT	US	
	Knight; Ben	Burlington	VT	US	
	Piette; James	Winooski	VT	US	
	Piette; Ross	Essex Junction	VT	US	
	Tobey; Joe	Essex	VT	US	
	Ferris; Brian	Georgia	VT	US	

**Assignee:** BTI HOLDINGS, INC. (Winooski, VT)

**Family ID:** 47219028

**Appl. No.:** 13/485,446

**Filed:** May 31, 2012

*W. Zimenkov*