

ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI- 29  
STORES SECTION (DO)

Ref. No. 09/SO(DO)/Gastro/PAC/22-23/FSC-III

Sub: Purchase of Chenidoc with Stainfree Imaging System with Accessories – 01 no. for the Department of Gastro. & HNU, at AIIMS, New Delhi-110029, on proprietary basis inviting comments thereon.

\*\*\*\*\*

On specific requirement of Deptt. of Gastro. & HNU. Store Section (DO) is in the process of procurement of Chenidoc with Stainfree Imaging System with Accessories from M/s Bio-Rad Laboratories (India) Pvt. Ltd. (Through M/s Bio-Rad Laboratories Inc., USA), The principal M/s Bio-Rad Laboratories (India) Pvt. Ltd. has submitted following documents:

1. Generalize Certificate- P-02
2. GEM non availability Certificate (P-3)
3. Technical Specification duly signed by TSEC (P-15)
4. Performa Invoice from principle/authorized distributor M/s Bio-Rad Laboratories Pvt. Ltd. (P-19 and 53)
5. PAC cum Patient Certificate (P-23-25)
6. Engineering Clearance- P-40
7. List of Consumables – P-55
8. No Down Trend Certificate – P-59
9. Manufacturer's Authorisation Certificate in favour of M/s Bio-Rad Lab. India Pvt. Ltd. (P-60).
10. Departmental PAC Certificate (69)
11. User Deptt informed that the item on PAC basis is available at serial 140 (Chemulminescence and Fluorescence Doc Imaging System) under GTE relaxation (P-70).
12. Land Border Declaration (P- 71)

Now, in view of the above, the said proposal is uploaded on AIIMS website for period of 15 days with the view to invite objections w.r.t. proprietary nature of the product from the OEC's or their authorized distributors. The comments/objections if any should be received in office of Store Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before 20/09/2022 upto 12:30 P.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 (FSC)

Chemidoc with stainfree imaging system with accessories

1. **Chemidoc Imaging System** - System should be capable of Chemiluminescence, Fluorescence, Multiplex Fluorescence Western Blotting, Stain free Imaging, Colorimetry, Gel Documentation.
  - 1 System should have following illumination sources:
    - Trans UV (302nm), Trans White, Epi White
    - Epi Blue, Epi Green, Epi Red, Epi Far Red, Epi Near IR
  - 2 System should have below mentioned filters:
    - 590/10nm Standard filter to perform protein and DNA Gel and Blot Imaging
    - Chemiluminescence Filter
    - 518-546nm filter for blue emitting fluorophores and stains
    - 577-613nm filter for Green emitting fluorophores and stains
    - 675-725nm filter for Red emitting fluorophores and stains
    - 700-730nm filter for Far Red emitting fluorophores and stains
    - 813-860nm filter for near IR emitting fluorophores and stains
  - 3 Should have 16-bit CCD camera with 6 MP, Pixel size: 4.54x4.54µ, cooling: -15°C absolute or more.
    - Quantum efficiency: 70% at 425nm
    - Dynamic range: Not less than 4 orders
    - Read Noise: ≤6e-
    - Dark Current, ≤0.002 e-/p/s at -15°C
  - 4 Auto Focus: precalibrated focus for any zoom setting or sample height
  - 5 Image Flat fielding: Dynamic, precalibrated and optimized for all applications
  - 6 Effective imaging area for all applications: not less than 21cm (W)x 16cm (H)
  - 7 System should be supplied with universal tray for Chemi/UV/Stain Free applications, White Light tray for protein gels and Blue tray for GelGreen or any SYBR stains.
  - 8 System should have smart tray technology to automatically recognize application specific trays, and adjust imaging parameters, iris setting, and software options accordingly.
  - 9 System must be capable of imaging stainfree protein gels & stainfree blots. This should be supported by showing data in a technical bulletin or peer-reviewed publication.
  - 10 System should have options for choosing automatic or manual exposure and adjust the binning level (2x2, 3x3, 4x4, 6x6 and 8x8).
  - 11 System should have a touchscreen interface with onboard computer along USB Ports to connect USB devices and Ethernet port.
  - 12 System should have two pre-designed auto exposure algorithms (rapid or optimal)
  - 13 System must have manual in/out sliding door facility design for easily accessible transilluminator during gel excision experiments.
  - 14 Should be supplied with a suitable 1 KVA Online UPS
  - 15 Compatible Computer should be supplied with i7 processor, 8GB RAM, 1TB HDD
  - 16 Compatible thermal Printer with paper roll.

*[Handwritten signatures and initials in blue ink]*

15. **Software features:** Software should have automated normalization feature for normalizing western blot signals of target band with a housekeeping protein band and total protein load of a sample. Should Generate customizable reports and publication ready images with user defined dpi, dimension and format with one click export option thus eliminating the need of using other software like Photoshop. Free lifetime upgrade for acquisition and analysis software should be available freely on the internet.
2. **Mini SDS-PAGE electrophoresis system**—Cell can run 4 gels (Precast or handcast) within 45 mins, Side-by-side casting stand to allow both gels simultaneously, and a spring-loaded lever creates a tight seal against the thermoplastic rubber gasket. Should be upgradable to western blotting and SDS PAGE in same buffer tank.  
System should include tank, lid with power cables, electrode assembly, 2 casting stands, 4 casting frames, 5 sets of glass plates for 1.0 mm thick, five 10 well combs, 5 gel-releasers, **Mini Trans-Blot Module** - with 2 gel holder cassettes, foam pads, electrode assembly, cooling unit.
3. **Fast Semi Dry Western Blotting Transfer Apparatus** – System should have 2 cassettes, can do 4 mini or 2 midi gels simultaneously. Both Cassettes can run separately at different time intervals.
  - Should have USB port for firmware updates
  - Should have Cooling fan and inbuilt Power supply
  - User Interface: button keypad, monochrome display
  - Programmable methods: Up to 25 user-defined, Standard SD, 1.5 mm gels, High MW, Low MW, Mixed MW
  - Should have Audible alarm
  - Should have User notifications features like Power fail during run, No-load detection, No cassette detection, End of run.
4. **Power Supply** - 300 V, 400 mA, 75 W, with Pause/resume run function, Automatic recovery after power failure and Pause/Resume Function.  
Should have Safety features like No-load detection, rapid resistance change detection, ground leak detection, overload/short circuit detection, overvoltage protection, over temperature protection. Should have Safety Compliance - EN-61010, CE, Conforms to CE standards for Emissions and Immunity class A, tested only at 230V; TUV EMC certification.
5. **Agarose Gel Electrophoresis System** – Should include Leakproof system with color-coded QuickSnap electrodes, 2 Gel Tank with lid to accommodate 7x10 and 15x10 UV Transparent trays, 8, 15, 20 well comb, gel caster.
6. **Consumables** – Should be supply with Stainfree Acrylamide solution kit for 50 Gels of 7.5%, 10%, 12%, Protein Standard (50 Rxns), Ready to Assemble Mini Nitrocellulose transfer kit (40 Blots), 5 Min Blocking buffer (500ml), Primary Antibody (Rhodamine Anti-Actin, Rhodamine Anti-GAPDH), Secondary Antibody (Goat Anti-Mouse IgG700, Goat Anti-Rabbit IgG520) 80ul each, ECL Substrate 200ml.
7. System should come with 5-year warranty.
8. Equipment should be European CE certified or US FDA approved or BIS and equivalent Indian agency certified as per GOI guidelines.

*[Handwritten signatures and initials in blue ink]*

User Justification Letter

We need urgently this system for imaging of Agarose gel electrophoresis of DNA/RNA and SDS-PAGE for protein and for western blot. This system is equipped with stain free imaging technology and the details are mentioned below.

We are working on protein gels and blot which require lot of Staining-Destaining, stripping steps during the experiment. Bio-Rad Chemidoc MP system have features like, Stainfree imaging which can help us to do experiment with 100% confidence and sensitivity.

1. With Stain-Free technology, there is no need to perform a separate staining step after electrophoresis. Because Stain-Free molecules are already embedded in the polyacrylamide gel, simply activate the gel after electrophoresis for one minute in a Chemi Doc MP system, and we can immediately see and capture our gel image. This puts an end to Coomassie Blue and Ponceau S stains in our western blotting workflow and avoids to long staining and destaining steps just to see if our protein samples are adequately resolved in the gel.
2. By adding Stain-Free technology along with Chemi Doc MP system to our workflow, we can incorporate checkpoints to ensure our protein sample is present after each step. This eliminate time wasted on western blots with problems that would not otherwise have been detected until the later stages of blot processing and development.
3. Stain-Free total protein normalization allows for the complete elimination of the inherently problematic use of housekeeping proteins as loading controls. Because Stain-Free imaging in Chemi Doc MP is not influenced by signal amplification, as observed with antibody detection using traditional housekeeping proteins, it is much more resistant to signal saturation in the presence of higher protein loads. This is particularly noticeable in the loading range commonly used for cell lysates, permitting you to obtain truly quantitative western blot data by normalizing bands to total protein in each lane. Total protein normalization is also more robust than traditional housekeeping protein normalization against changes in expression caused by experimental treatments, providing superior accuracy (Hu et al. 2016).

Hu X et al. (2016). Common housekeeping proteins are upregulated in colorectal adenocarcinoma and hepatocellular carcinoma, making the total protein a better "housekeeper." *Oncotarget* 7: 66,679–66,688.

List of Consumables

S.No.	Cat No.	Description	Price
1	1610181	TGX Stain-Free FastCast Acrylamide Kit, 7.5%, 50-GEL KIT	8655
2	1610183	TGX Stain-Free FastCast Acrylamide Kit, 10%, 50-GEL KIT	8655
3	1610185	TGX Stain-Free FastCast Acrylamide Kit, 12%, 50-GEL KIT	8655
4	1610374	Precision Plus Protein Dual Color Standards, 500 µl	8740
5	12010020	EveryBlot Blocking Buffer, 500 ml	16615
6	1704270	TBT RTA Transfer Kit, NitroMini	21795
7	1704271	TBT RTA Transfer Kit, NitroMidi	43710
8	1704272	TBT RTA Transfer Kit, PVDF Mini	28700
9	1704273	TBT RTA Transfer Kit, PVDF Midi	47380
10	1704274	TBT RTA Transfer Kit, LF PVDF Mini	29305
11	1704275	TBT RTA Transfer Kit, LF PVDF Midi	47160
12	12004158	Goat Anti-Mouse IgG StarBright Blue 700, 400 µl	8670
13	12004161	Goat Anti-Rabbit IgG StarBright Blue 700, 400 µl	8670
14	12005866	Goat Anti-Mouse IgG StarBright Blue 520, 400 µl	11270
15	12005869	Goat Anti-Rabbit IgG StarBright Blue 520, 400 µl	11270
16	12004163	Anti-Actin hFAB Rhodamine Antibody, 200 µl	26010
17	12004165	Anti-Tubulin hFAB Rhodamine Antibody, 200 µl	26010
18	12004167	Anti-GAPDH hFAB Rhodamine Antibody, 200 µl	26010
19	1665112	UView 6x Loading Dye and Stain 1 ml	3395
20	1610433	Ethidium Bromide Solution, 10 mg/ml, 10 ml	3580
21	1708351	EZ Load 20 bp Molecular Ruler, 500 µl, 20-1,000 bp	10220
22	1708352	EZ Load 100 bp Molecular Ruler, 500 µl, 100-1,000 bp	10290
23	1613102	CERT AGAROSE, MOL BIOLOGY, 500G	33740
24	1613105	CERT AGAROSE, PCR, 500G	88905
25	1705060	Clarity Western ECL Sub, 200ml	13500
26	1705061	Clarity Western ECL Sub, 500ml	26840
27	1705062	Clarity Max Western ECL Substrate, 100 ml	24875
28	1707581	Mitsubishi Thermal Printer, 4 rolls	14515







  





**Bio-Rad**  
Laboratories (India) Private Limited  
(A wholly owned subsidiary)

EMART Digital Greens, 9th Floor  
Tower A Sector 67, Golf Course Extension  
Gurgaon - 1220103  
Tel : 91 11 424 4029/300  
Email : sales.india@bio-rad.com  
Tech Support : 1800-103-1224 / 0987317247  
www.bio-rad.com  
GST No: 06AAACE322A1ZSR

Registered Office: Plot No. 12/10 Balaram, Lal Dera, Village Anandpur,  
Deopur, Feroz Road, Village, Near DWH - 110037, Tel: 91 11 25965912  
CIN No. : U3210-DL-1999PTC0278949 GST No: 07AAACB3300412F



ISO 9001:2015  
CERTIFIED  
BY TUV SUD

19

**Quotation**

To,  
The HOD  
Dept of Gastroenterology  
All India Institute of Medical Sciences  
New Delhi  
Kind attn: Dr. B Nayak

Date: 17 Jan, 2022  
Quote Ref. :- QQ116576-CPQ21

Dear Sir / Madam,  
With reference to the above, please find enclosed our Best offer for Bio-Rad Products.

Catalog #	Description	Qty	Offer Price
12003154	<b>ChemIDoc™ MP Imaging System:</b> The ChemIDoc MP Imaging System is a full-feature, best-in-class instrument for imaging and quantifying nucleic acid and protein in gels and western blots. It is capable of imaging fluorescent western blots (RGB, far-red, near-IR), chemiluminescent western blots, all common nucleic acid and protein gel stains, plus stain-free gels. Includes internal computer, 12" touch-screen display, camera, Image Lab™ Touch Software, and Image Lab Software	1	2850000
12012931	Image Lab Software on USB drive Image Lab Software, PC or Mac, for automated image capture, optimization, and 1-D data analysis, for use with GelDoc Go, ChemIDoc, and GS-900 Imaging Systems	1	Included
12003026	White Sample Tray for ChemIDoc™ MP/ChemIDoc Imaging Systems Pkg of 1, sample tray for gels and blots stained with Coomassie Blue, copper, silver, or zinc stains	1	Included
12003027	Blue Sample Tray for ChemIDoc™ MP/ ChemIDoc Imaging Systems Pkg of 1, sample tray for nucleic acid applications with GelGreen or any SYBR® Stain	1	Included
1708089	Mitsubishi Thermal Printer Optional thermal printer, for use with Bio-Rad Imaging systems	1	Included
1707581	Mitsubishi Thermal Printer Paper Pkg of 4, printer paper rolls for use with Mitsubishi Thermal Printer (#170-8089)	1	Included
ZUPS2-			
GXD	2KVA online UPS with Standard Back-up	1	Included
1662107-PSD	HIGH CONF. DESKTOP - PSD	1	Included
	Warranty - 5 Years		
<b>Total Ex-Works Prices : INR</b>			2850000
GST @ 18%			513000
<b>Total INR</b>			<b>3363000</b>

*Handwritten signature and initials in blue ink.*

NOTE 1:	This prices are special discounted prices.
NOTE 2:	Laptop, UPS, will be supplied locally

90

**STANDARD TERMS AND CONDITIONS OF INR SALES:**

1. Prices Quoted are inclusive of GST @ 18%. Against DSIR and GST Declaration, GST is 5%
2. GST No. 33AAACB3202A1ZU
3. Payment Terms: Within 30 days of delivery.
4. Delivery: 4-6 weeks from the date of confirmed order.
5. Other than GST, if any other Tax is levied by the Govt., it is to the account of the buyer.
6. THE PURCHASE ORDER SHOULD BE IN FAVOR OF:  
**BIO-RAD LABORATORIES (INDIA) PVT LTD**  
Door No 116, Portion-1, Devaneri Village Road, Sholavaram Village  
Chennai- 600067
7. Validity of Quote : 90 days

Yours Sincerely  
**For Bio-Rad Laboratories (India) Pvt.Ltd.,**



**Bala Krishan - Account Manager**  
Ph: 9953667552  
Email : bala\_krishan@bio-rad.com

*Handwritten signature in blue ink, possibly 'Bala Krishan'.*

*Handwritten initials 'bk' in blue ink.*

*Handwritten initials 'sw' in blue ink.*

*Handwritten initials 'sh' in blue ink.*

*Handwritten initials 'an' in blue ink.*

BF

**BIO RAD**

**Bio-Rad  
Laboratories, Inc.**

Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
Phone: 510-741-1000  
Fax: 510-741-5800

June 27, 2017

PROPRIETARY CERTIFICATE

This is to certify that the Bio-Rad Chemidoc system Catalog numbers listed in the table below are products of Bio-Rad Laboratories, Inc., 1000 Alfred Nobel Drive, Hercules, California 94547 USA, which are covered by the following US Patents owned by Bio-Rad Laboratories, and foreign equivalents thereto:

Catalog No	Description
12003154	Chemidoc MP Imaging System
17001402	Chemidoc MP Imaging System
12003153	Chemidoc Imaging System,
17001401	Chemidoc Imaging System

US Patent Number 8,913,127 B2 Calibration of imaging devices for biological/chemical samples,  
December 16, 2014

For Bio-Rad Laboratories Inc.

*Patricia Gee*

Patricia Gee  
Regulatory Affairs Representative

*AMX*

*Barbara*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*





**Bio-Rad  
Laboratories**

Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
Telephone: 510-741-1000  
Facsimile: 510-741-5800

58

---

January 15<sup>th</sup> 2019

Dear Valued Customer,

The intent of this letter is to certify that the Chemidoc MP/Touch Imaging Systems, and its use for Total Protein Normalization of Stain-Free Gels, is a product of Bio-Rad Laboratories, Inc., 1000 Alfred Nobel Drive, Hercules, California 94547 USA, and is protected by the following U.S. patents and patent applications owned by Bio-Rad Laboratories, and foreign equivalents thereto:

U.S. Patent No. 8,913,127 (Calibration of imaging device for biological/chemical samples)

U.S. Patent No. 9,058,648 (Image acquisition for chemiluminescent samples)

U.S. Patent No. 9,606,111 (Stain-free protein quantification and normalization)

PCT Patent App. No. WO2013138646 (Image acquisition for chemiluminescent samples).

In addition, Bio-Rad is actively contacting third parties to enforce the rights granted under these patents.

Best Regards,

*B. Wang*

Ben Wang, Ph.D  
Product Manager – Protein Quantitation  
Life Sciences Group  
Bio-Rad Laboratories  
Email: [ben\\_wang@bio-rad.com](mailto:ben_wang@bio-rad.com)

*Ben Wang*

*Ben Wang*

*Ben Wang*

*Ben Wang*

*Ben Wang*

*Ben Wang*

**BIO-RAD**

**Bio-Rad  
Laboratories, Inc.**

Corporate Offices  
1000 Alfred Nobel Drive  
Hercules, California 94547  
Phone: 510-724-7000  
Fax: 510-741-4048

68

24<sup>th</sup> February 2017

Authorization Letter

This is to certify that Bio-Rad Laboratories (India) Pvt. Ltd., having its registered office at Plot # 1270, Basement Lal Dora, Village Kapashera, Opposite Fun & Food Village, New Delhi – 110037, Phone – 91 -11-25065913, CIN – U32109DL1996PTC078494, Certificate of Incorporation No. 55-78494 dated 25.04.1996, with a head office at Plot # 86-87, Udyog Vihar, Phase – IV, Gurgaon – 122015, Haryana, India, and respective branch offices in Ahmedabad, Pune, Mumbai, Hyderabad, Bangalore, Chennai, Kolkata, Lucknow and Kochi (together "Bio-Rad India"), is a wholly owned subsidiary of Bio-Rad Laboratories, Inc., located at 1000 Alfred Nobel Drive, Hercules, California 94547, USA. This letter supersedes all previous letters on this matter. We hereby confirm the following:

- Bio-Rad Laboratories, Inc. and its subsidiaries and affiliated companies manufacture Bio-Rad products.
- Bio-Rad India is a wholly owned subsidiary of Bio-Rad Laboratories, Inc. and is authorized to import, stock, market, supply, sell, install, distribute, service, maintain and extend warranties for Bio-Rad products, and to quote and submit tender documents, clarifications, and to negotiate the sale and supply of Bio-Rad products manufactured by Bio-Rad Laboratories, Inc. or any of its affiliated companies worldwide in response to enquiries and tenders issued by customers, including without limitation, government hospitals and organizations, and private customers, in India, Sri Lanka, Nepal, Bhutan, Mauritius, Bangladesh, Maldives and Seychelles in local currency or United States Dollars ("USD") currency.
- Bio-Rad India is authorized to appoint distributors to import, stock, market, supply, sell, install, distribute, service, maintain and extend warranties for Bio-Rad products; and to quote and submit tender documents, clarifications, and to negotiate the sale and supply of Bio-Rad products manufactured by Bio-Rad Laboratories, Inc. or any of its affiliated companies worldwide in response to enquiries and tenders issued by customers, including without limitation, government hospitals and organizations, and private customers, in India, Sri Lanka, Nepal, Bhutan, Mauritius, Bangladesh, Maldives and Seychelles.
- Bio-Rad Laboratories Inc. does not supply directly to any customers in India, Sri Lanka, Nepal, Bhutan, Mauritius, Bangladesh, Maldives and Seychelles; and all pre and post sales and marketing activities are conducted by its subsidiaries and affiliated companies.
- Bio-Rad India and/or its distributors are authorized to provide USD quotes to, and place USD currency orders for, customers based in India, Sri Lanka, Nepal, Bhutan, Mauritius, Bangladesh, Maldives and Seychelles to Bio-Rad Pacific Ltd. (Business Registration Certificate # 13264780-000-01015-0), located at Unit 1101, 11/F, Berkshire House, 25 Westlands Road, Quarry Bay, Hong Kong, which will issue the sales documentation, and coordinate the delivery of products for these customers.
- Bio-Rad Laboratories, Inc. guarantees its support to Bio-Rad India by maintaining the continuity of supply of Bio-Rad products if a tender/contract/purchase order is awarded to Bio-Rad India.
- This authorization letter is valid for 24 months from the date of issuance.

For and on behalf of  
~~Bio-Rad Laboratories, Inc.~~

Lee Boyd



MARCH 10, 1978  
DELAWARE

*Handwritten signatures and initials:*  
- A large signature in blue ink.  
- Initials "MM" in blue ink.  
- Initials "bm" in blue ink.  
- Initials "sm" in blue ink.