

DR. RAJENDRA PRASAD CENTRE FOR OPHTHALMIC SCIENCES
All India Institute of Medical Sciences
Ansari Nagar, New Delhi-29

Ref. No. 17SSO(RPC)/ CS/PAC/2018-19

Subject: Purchase of Real Time Automated Polymerase Chain Reaction (PCR) Machine - 01 Nos. for Dr. R.P.Centre at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

As per decision taken/ approved by Competent Authority of Dr. R.P.Centre AIIMS for the purchase of subject cited equipment from M/s. Biorad Laboratories on proprietary basis. The proposal submitted by M/s. Biorad Laboratories India Pvt. Ltd., (Authorized representative of M/s. Biorad Laboratories, Hong Kong) and PAC certifications are attached & uploaded on website.

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 15 days from the date of issue/uploading of the notification giving reference **17/SSO(RPC)/CS/PAC/2018-19**. The comments should be sent to Stores Officer, Dr. R.P.Centre at AIIMS on or before **16.02.2019 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.

SR. STORES OFFICER (RPC)

Encl: Related documents enclosed.

1. PAC Certificate enclosed.

Real-Time Automated Polymerase Chain Reaction (PCR) Machine [Quantity 1]

Features:

- World's most accurate block-based PCR system with temperature uniformity of $\pm 0.1^{\circ}\text{C}$.
- Innovative 2D-Gradient for advanced PCR optimization.
- CFX96 Touch Real-Time PCR Detection System
- Thermally accurate block gives consistent data every time
- It should be fully Automated with compatible software**
- Fastest block-based real-time PCR system
- Heating Rate:** up to $10^{\circ}\text{C}/\text{s}$.
- Wide selection of blocks from a fast silver block to 384
- Touch Screen Interface
- Flexlid Concept:** Automatic height adjustment of the lid allows to use all types of consumables
- Small footprint
- Easy to use software, making analysis simple and fast

Technical Specifications:

Thermal Cycler

- Chassis : C1000 Touch
- Maximum ramp rate, $^{\circ}\text{C}/\text{sec}$: 5
- Average ramp rate, $^{\circ}\text{C}/\text{sec}$: 3.3
- Heating and cooling method : Peltier
- Lid, $^{\circ}\text{C}$: Heats up to 105

Temperature

- Range, $^{\circ}\text{C}$: 0-100
- Accuracy, $^{\circ}\text{C}$: ± 0.2 of programmed target at 90°C
- Uniformity, $^{\circ}\text{C}$: ± 0.4 well-to-well within 10 sec of arrival at 90°C

Gradient

- Operational range, $^{\circ}\text{C}$: 30-100
- Programmable span, $^{\circ}\text{C}$: 1-24

Optical Detection

- Excitation : 6 filtered LEDs
- Detection : 6 filtered photodiodes
- Range of excitation/emission wavelengths, nm : 450-730
- Sensitivity : Detects 1 copy of target sequence in human genomic DNA
- Dynamic range : 10 orders of magnitude

Scan Time

- All channels, sec : 12
- FAM/SYBR[®] Green only, sec : 3

[Handwritten signatures and initials are present throughout the technical specifications section, including a large signature at the top right and several initials at the bottom.]



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PROPRIETARY CERTIFICATE

This is to certify that **QX200 Droplet Digital PCR System**, which includes a QX200 Droplet Generator, is a product of Bio-Rad Laboratories, Inc., 1000 Alfred Nobel Drive, Hercules, California 94547 USA, which system is covered by one or more of the following patents and applications owned by Bio-Rad Laboratories, and foreign equivalents thereto:

- U.K. Patent GB2477053B (Droplet-based assay system)
- U.S. Patent App. Pub. No. US-2010-0173394 (Droplet-based assay system)
- U.S. Patent App. Pub. No. US-2012-0028311 (Cartridge with Lysis Chamber and Droplet Generator)
- U.S. Patent App. Pub. No. US-2011-0053798 (System for Mixing Fluids by Coalescence of Multiple Emulsions)
- U.S. Patent App. Pub. No. US-2011-0092392 (System for Forming an Array of Emulsions)
- U.S. Patent App. Pub. No. US-2011-0092373 (System for Transporting Emulsions from an Array to a Detector)
- U.S. Patent App. Pub. No. US-2011-0092376 (System for Droplet based Assays Using an Array of Emulsions)
- U.S. Patent App. Pub. No. US-2011-0086780 (System for Forming an Array of Emulsions)
- U.S. Patent App. Pub. No. US-2011-0217712 (Emulsion Chemistry for Encapsulated Droplets)
- U.S. Patent App. Pub. No. US 2011-0311978 (System for Detection of Spaced Droplets)
- U.S. Patent App. Pub. No. US-2012-0152369 (System for Forming Emulsions)

For Bio-Rad Laboratories (India) Pvt. Ltd.

 Steve Lin 10/4/13

Authorized Signatory







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