

Admn/Prop/43/2019-AIIMS.JDH

Dated: - 12th September, 2019

Subject: Purchase of Droplet Digital PCR System for the DBT Sponsored Research Project at

AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Droplet Digital PCR System for the DBT Sponsored

Research Project at AIIMS, Jodhpur from M/s Bio-Rad Laboratories Inc., Life Science Group, 2000

Alfred Nobel Drive, Hercules, California-94547 on proprietary basis. The proposal submitted by

M/s Bio-Rad Laboratories Inc., California and PAC certification by user are attached.

The above document are being uploaded for open information to submit subjection,

comments, if any from any manufacturer regarding proprietary nature of the equipment within

21days of issue giving reference Admn/Prop/43/2019-AIIMS.JDH. The comments should be

received by office of Dean (Research), Research Section at AIIMS, Jodhpur on or before 03rd

October, 2019 upto 03:00 PM failing which it will be presumed that any other vendor is having no

comment to offer and case will be decided on merits.

Dean (Research)

Enclosed: Related documents enclosed.







Bio-Red Laboratories, Inc.

PROPRIETARY CERTIFICATE

This is to certify that QX200 Droplet Digital FCR System, which includes a CX200 Druplet General or list product of Bio-Rad Laboratories, Inc., 1003 Allend Robel Druse, 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 away visitors)
- U.S. Patent App. Pub. No. US-2010-0173354 (Drophet-hased 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-C053798 (System for Midding Fields by Coalescence of Modificial Emulsions)
- U.S. Patent App. Pub. No. 05-2011-0053392 (System for Forming an Array of Emphany)
- U.S. Patent App. Pub. No. US-2011-0092979 (System for Transporting Emulsions from an Array to a Detector)
- U.S. Patent App. Pub. No. US-2013-0092276 [System for Oropiet based Assays Using an Array of Emulsions)
- U.S. Patent App. Pub. No. US-3011 CRESTRU (System for Forming on Array of Emulsions).
- U.S. Patent App. Pub. No. US-2011-0217712 (Emulsion Chemistry for Encapsulative Grophets)
- U.S. Patent App. Pub. No. US 2011-0311975 (Sessem for Detection of Spaceo Originals)
- U.S. Patent App. Pub. No. US-2012-015/2369 (System for Forming Emulsions)

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

Authorized Signatory

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Patricia Gee Regulatory Affairs Representative Big-Rad Laboratories Inc. Life Science Group Tel (510)741-6374



DRO	TECHNICAL SPECIFICATION OF DROPLET DIGITAL PCR SYSTEM - I NO		
1	PLET DIGITAL PCR SYSTEM, complete as per below mentioned configuration and specifications		
2	Droplet Digital PCR System, complete as per below mentioned configuration and specification Table top, space saving model with latest state of the art technology.		
3			
3	Complete, ready to use, setup should be quoted and supplied, which should include Droplet		
	generator, droplet reader, necessary start-up kit and consumables, Thermal Cyclor, PC System,		
4	Software, all essential accessories, consumables, attachments etc.		
2.	System should be able to detect rare DNA target copies with high sensitivity, determine copy number variation with high accuracy and measure gene expression level with high precision.		
5			
6	System should be based on water-oil emulsion droplet technology with microfluidics.		
7	System should be able to generate around 20000 uniform picoliter droplets of each sample.		
8	Sample size needed: 20 microliter or less		
9	Sample capacity: upto 8 samples per cartridge or more.		
10	Droplet generator should be ready to use system, supplied with all standard and essential		
10	accessories, attachments, etc.		
11	Start-up kit of consumables needed for droplet generation should be supplied.		
12	Droplet Reader: 11 No		
13	Suitable for counting PCR positive and PCR negative dropiets		
14	Reading capacity: upto 96 samples per run.		
15	Compatible for 96- deep well plate.		
16	Sample illumination method: LED		
17	Dynamic range: 4 orders or more		
18	Two channel detection for FAM(Evagreen) and HEX or Vic dives.		
19	The equipment must be able to read multiplexing assays run with probe base as well as dye base		
***	chemistry		
20	Should be able to read 1000 droplets/ sec		
21	Plate Sealer 1140		
22	Plate Sealer suitable for 96 well plate, with support block, sealing frame and power chord.		
23	One pack of 100 nos. of compatible seals should be supplied.		
24	Thermal Cycler: 1 No		
25	Compatible thermal cycler with gradient block for 96 well deep-well plate.		
26	Model with graphical touch screen cum display should be there		
27	Software		
28	Software packages for droplet Digital PCR applications which may include features like display of		
	fluorescence measurement per droplet for both channels, show multiplex data per droplet for		
	two channels, Absolute quantitation and copy number variation analysis, setting threshold values		
	for entire sample plate or for individual samples, merging results from replicate wells, graphical		
	and tabular representation of data, Data acquisition and analysis, report generation, export		
	results, etc.		
29	Latest available, Licensed version of the software should be supplied		
30	At least 2 times of analysis software training should be done		
31	Computer		
32	Latest available and factory recommended computer workstations should be provided. I No.		
	for control, acquisition+analysis, etc. Computer system should be leclusive of all		



	required hardware, drivers, adequate storage and RAM modules, etc.	
33	Computer system should have sufficient memory to store at least 1000 previous runs data	
34	On Line UPS System (to be supplied locally)	
35	Suitable capacity, compact UPS system with 20 min. backup time should be supplied with the equipment. UPS should be inclusive of sufficient numbers of SMF batteries, battery stand, connecting cables, etc. UPS with built-in batteries will be preferred. UPS should be of Emerson / Liebert/APC brand.	1 No
36	Consumables to be supplied:	
	Sufficient to run 200 samples	
37	Preferred parameters	
	NO Special laboratory alteration or gyroscopic angulation for instrument operation	
	No Special temperature window for instrument operation	
	Partition number must be equal or higher than 20,000 to ensure high dynamic range coverage	
	All Workflow components should be manufactured by same vendor (ddPCR)	
	More than 1000 Publications in reputed international journal as proof of technology	
38	Minimum 25 installations in India , preferentially more than 15 in clinical set up	

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