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

Ref. No. 39/Prop/Micro/LD/2019-20/RS

Dated: 28.01.2020

Subject: Purchase of Quant Studio 5 Real Time PCR System for the Deptt. of Microbiology, AIIMS, New Delhi-29 on proprietary basis- <u>Inviting comments thereon.</u>

The request has been received from Dr. Lalit Dar, Deptt. of Microbiology, AIIMS to purchase the subject item from M/s Vision Diagnostic (India) Pvt. Ltd. (Mfg. by M/s Thermo Fisher Scientific, USA) on proprietary basis. The proposal submitted by M/s Vision Diagnostic (India) Pvt. Ltd. and Performa Invoice and Departmental PAC certifications 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. 39/Prop/Micro/LD/2019-20/RS. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before <u>12/02/2020</u> upto <u>12:00 p.m.</u>, 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)

<u>Encl</u>: Related documents enclosed. 1. PAC Certificate enclosed. 2. Performa Invoice

QuantStudio 5 Real-Time PCR System, ThermoFisher Scientific (Proprietary Item)

Technical specifications

- The system should be an automated integrated system for both real-time PCR and post-PCR (endpoint) analysis using in-built multiple Peltier based PCR machine.
- The system should be capable to analyze 96 samples simultaneously in any of the following formats: 96-well plate with optical adhesive cover, 96-well plate with optical flat caps. 8-tube strips and individual tubes
- 3. The system should be a standalone system i.e. it should have advance Touch Screen LCD feature to avoid dependency on computer for operation with 10GB onboard memory of at least 1000-2000 runs. However, the system should come along with branded laptop for system control, operation, analysis, net-working of multiple system and a have USB port for data export to Power point, Excel or JPEG file formats.
- 4. The instrument can be customized, through the touch screen which should allow the user to create a run from the template, run an experiment, viewing the amplification plot and also pause the run in progress. During the pause the user can open/ close the block drawer to access samples. The user can resume the run from the point at which it was paused from the touch screen.
- 5. Instrument's touch screen interface should allow for editing of thermal protocols, including editing of individual PCR stages, individual PCR steps, block zones settings. Auto Delta settings, programmable pause settings, temperature settings, step duration settings, reaction volume settings, heated cover temperature, and ramp rate settings.
- 6. System should support minimum recommended reaction volume of 10 μL and thermal cycling conditions to eliminate optimization of PCR conditions for running the templates from different sources simultaneously
- 7. The system must have flexibility to run multi user samples with more than 5 specific annealing temperature in a single run. It should have more than 5 independent temperature zone.
- 8. The quoted system should support the temperature range from 4° C to 100° C.
- 9. The system should be an open platform in terms of reagents as well as consumables
- 10. System should have 6 excitation and emission filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing on the 96-well block instrument.

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- 11. The system should have dyes calibrated for FAM/ SYBR Green, VIC/ JOE/ HEX/ TET. ABY/ NED/ TAMRA/ Cy3, JUN, ROX/ Texas Red, Mustang Purple, Cy5/ LIZ, CY5.5 dye, so that the user can use any of these dyes in an experiment without needing to recalibrate the instrument, if there is a change to the assay's reaction volume or reaction vessel. The calibration of new dyes without hardware change should also be possible.
- 12. The system should have block ramp more than 6C/sec, and run time less than 35 minutes.
- 13. System should support various real-time quantitative PCR applications, including gene expression analysis, using relative standard curve, comparative Ct (ΔΔCt) for relative quantitation, standard curve for absolute quantitation, allelic discrimination (SNP), dissociation curve analysis, pathogen detection, multi-plate with multiplex capability for gene expression/ genotyping study.
- 14. System should have option to analyze data by online web browser based software or cloud based by which user can access data with any browser or any device.
- 15. System must be supplied with license software which includes statistical analysis tools like Box-Whisker plots to assess Ct distribution, scatter plots and heat maps to assess sample correlation and quality, gene expression analysis, using standard curve, comparative Ct for relative quantitation, standard curve for absolute quantitation, allelic discrimination (SNP), dissociation curve analysis, pathogen detection and multi-plate with multiplex capability for gene expression/ genotyping study
- 16. System should have data acquisition by whole plate imaging
- 17. The System should utilize a highly advance board spectrum light source white LED for the excitation which offer more dye capability and Camera for detection. The software should utilize a multicomponenting algorithm to provide solution for multiple dye signals, to enable the simultaneous detection of multiple fluorophores with reduced cross-talk.
- System should detect differences in target quantity as small as 1.5-fold in singleplex reactions, and should have 10 logs of linear dynamic range.
- 19. The necessary consumables to perform real-time quantitative PCR and assays (TaqMan MGB probes), including sample preparation reagent, Real Time PCR reagents and plastic wares should be available with same vendor and price for the next 5 years should be quoted. Further, the supplier should also be able to design and provide the TaqMan assays for the DNA/ small RNA (custom assays) templates of our interest.
- 20. The normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye.
- 21. The quoted system must have full license for PCR process.

22. The vendor should have own application support laboratory in India, preferably in Delhi/ NCR for local & efficient after sales service-support. 23. System should be supplied with a branded laptop. 24. Should be provided with five years comprehensive warranty from the date of installation. Should provide sale service quote for annual comprehensive maintenance contracts for next five years after completion of warranty period. The committee approved the specification of QuantStudio 5 Real-Time PCR System डो. लॉलित चर/Dr. Lelit Dar, MD कानमं पर प्रमत्ति विवान अनुमन पूर नेवर किंगन / Department of Microbiotopy आशीम चीपरी/Dr. Aashish Choudhary बर नेवर किंगन / Department of Microbiotopy आशीम चीपरी/Dr. Aashish Choudhary बर नेवर किंगन / Department of Microbiotopy आशीम चीपरी/Dr. Aashish Choudhary बर नेवर किंगन / Department of Microbiotopy बर नेवर किंगन / Department of Microbiotopy बर नेवर किंगन / Department of Microbiotopy अ.मा.बा. त. नई तिस्ती/ALLM.S., New Lance 10029 inimbA latiosoft in Hospital Trat/Satol Saler shallhria आयुर्विज्ञान संस्थान/AIIMS मेघा बृजवाल / Ur. New Deini-29

Thermo Fisher

Thermo Fisher Scientific Life Sciences Solutions Group 3175 Stałęy road Grand Island, New York 14072 U.S.A. (716) 774-6700 www.thermofisher.com

March 31, 2017

Re: Applied Biosystems™ QuantStudio™ 3 and 5 Real-Time PCR System Proprietary Features

Dear Valued Customer:

Thank you for your inquiry related to our Applied Biosystems™ QuantStudio™ 3 and 5 Real-Time PCR System Proprietary Features. Listed below are several US Patents and the features they cover with regards the QuantStudio™ 3 and 5 Real-Time PCR Systems:

US Patent	Area
8557566	Optical
7233393	Optical
7295316	Optical
7045756	Optical
8676383	Temperature
8572506	Algorithm/Software
8865473	Optical

If you have any further questions, please feel free to contact us.

Thank you for your continued support and interest in Thermo Fisher Scientific products.

TESTED

Sincerely yours,

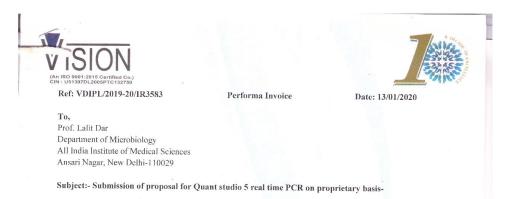
Levente Egry

Senior Product Manager Applied Biosystems QuantStudio™ 3 and 5 Real-Time PCR Systems Life Sciences Solutions

Thermo Fisher Scientific







Please find below our best possible prices of the following items for your kind considerationalong with authorization letter, proprietary certificate, SO copy, price list and lowest price certificate are attached for your reference. Our Quoted model is from Life Technologies PTE.

	SI. No.	Cat No.	Description	Qty	Unit price INR
Molecular Diagnostics Simplified		A28139	QuantStudio 5 Real-Time PCR System,* 96-well, 0.2 ml block HSN CODE : . The Applied Biosystems® QuantStudio® 5 Real-Time PCR System is designed for users who need an affordable, easy-to-use real-time PCR system that doesn't compromise performance and quality. The simplified Design and Analysis software is ideal for both first-time and experienced users. When connected to the Thermo Fisher Cloud, the QuantStudio® 5 system provides access to your data wherever and whenever you want. Using proven OptiFlex® technology (featuring 6decoupled channels and white LED) and featuring six independent Veriflex® temperature zones, the QuantStudio® 5 system enables improved data accuracy and sensitivity for a broad range of genomic applications. Features of the QuantStudio® 5 system include: • Simplified instrument software with interactive touch screen for greater ease of use •Maximum ramp rate 6.5°C/sec •Multiplexing 96-well: up to 6 targets with 21 filter combinations • Proven OptiFlex® technology (6 decoupled channels with white LED) for trusted results • Secure cloud-based software option provides increased accessibility and storage options • User account management and Pause features for greater control of experiments • Sensitivity: Detect changes as little as 1.5-fold in target quantities	01	42,86,574.00

Vision Diagnostic (India) Pvt. Ltd.

2nd Floor, 2/675, Sector-L, LDA Colony, Kanpur Road Lucknow - 226012 U.P. Ph : 052-4016799

Lucknow Correspondence | Corporate Office /Correspondence Address

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 FFSR 9A & 9B , First Floor
 Tel.:+91-120-43430000

 Ansal Premium Corporate Suits, to 4343021 (22 Lines)
 Patparganj Industrial Area, Patparganj, Delhi-110092

 Ansal Plaza, Sector-1
 info@vision-groups.com

 Vaishali, Ghaziabad-201010(U.P.)
 www.vision-groups.com

Regd. Office Delhi

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