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

Ref. No. 02/Stores (DO)/TII/PAC/2017-18/FSC

Dated 27.07.2017

Sub:-Purchase of Quant Studio R5 (Real Time PCR System) for the department of TII, (AIIMS), New Delhi-110 029, on proprietary basis <u>Inviting</u> comments thereon.

The Institute is in the process to purchase **Quant Studio R5** (**Real Time PCR System**) for the department of TII, (AIIMS), New Delhi from M/s. Invitrogen BioServices India Pvt. Ltd., Bangalore through M/s. Vision Diagnostic India Pvt. Ltd., New Delhi. The proposal submitted by M/s. Vision Diagnostic India Pvt. Ltd. and 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. **02/Stores (DO)/TII/PAC/2017-18/FSC.** The comments should be received by office of Sr. Stores Officer (DO), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before 12.08.2017 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.

Yours faithfully,

SR. STORES OFFICER (DO)

Encl: Related documents enclosed.

Proprietary Article Certificate for procuring the goods from a single source under the provision of sub Rule 154(iii)

The indented goods are manufactured by M/s. Applied Biosystems (now a subsidiary of (i) M/s. ThermoFisher Scientific, USA) (Hodel: GUANTSTUDIOS) & No other make or model is acceptable for the following reasons: (ii)

The department requires a Real-Time PCR system with the following capabilities:

The system should be a standalone system with large touch screen LCD to avoid dependency on computer for operation with 10.0GB or more onboard memory for

The system should be an automated integrated system for both real-time PCR and post-PCR (end-point) analysis using in-built multiple Peltier and should support the temperature range from 4°C to 100°C.

The system should have 6 or more independent temperature zone to allow running multiple experiments simultaneously.

The system should be able to run multiple samples with five or more specific

annealing temperature in a single run. The system should have a ramp rate of atleast 6.0°C/sec or better, to allow for runtime of 30 minutes or less.

System should have a linear dynamic range of min. 10 logs and should have the capability to detect as little as 1.5-fold differences in target quantity.

The system should be able 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.

The system should have bright white LED / other advanced spectrum light source and should combine 6 or more decoupled excitation and emission filter sets having excitation / detection range 450-680 nm/500-730 nm, to enable collection of 20 or more unique combinations of dyes allowing for a broader range of detection chemistries and assay multiplexing.

The software should utilize a multi-component algorithm to provide solutions for multiple dye signals, to enable the simultaneous detection of multiple fluorophores with reduced cross-talk for greater accuracy.

10. System should support various real-time quantitative PCR applications, including System should support various real-time quantitative PCR applications, including gene expression analysis, using relative standard curve, comparative Ct ($\Delta\Delta$ Ct) 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. System should be supplied with a 2.0KVA (or suitable) Online UPS with three hours because

Concurrence of finance wing to the proposal vide:..... (iii)

Approval of the competent authority vide:.....

(Signature with date and designation

Of the procuring officer)

(iv)



Ref: vdipl/2016-17/1965

PERFORMA INVOICE

Dated: 20/12/2016

Τo The HOD Department of Transplant Immunology & Immunogenetics A.I.I.M.S New Delhi-110029

Subject: - Quotation for Quant Studio 5 System.

Kind Attn:- Dr. Uma Kanga

Dear Sir/Madam,

As per your requirement of Quant Studio5 System, we are pleased to offer you our best lowest prices for your kind consideration. Our quoted Product is from "Life Technologies" Part of Thermo Fisher Scientific, USA.

S.No.	Description	Qty	Unit Price (INR)	Total Price (INR
ļ	Quant Studio 5 -System with Notebook Computer The Applied Biosystems® QuantStudio® 5 Real-Time	Ī	39,95,000.00	39,95,004.0
1	PCR System is designed for users who need superior	-	· .	
[performance, maximum dye versatility, and security			
·	options in a real-time PCR system that is affordable and			
. !	easy to use. The optimized Design and Analysis software	1		
ŀ	is ideal for both first-time and experienced users. Sample		1	
	capacity (wells)	!	11 - 1 4 4 6 4 6 2	1 2 14 A
			Street Land	Professional States
1 2 10 1	Qualitative, post-PCR detection for automated allelic			the space of the state of
3.5	discrimination (SNP genotyping) assays and	·	14.7	Control of the Shi
1	presence/absence (plus/minus) assays that use internal positive controls.	Y.	n distribution	-
	positive contrais.			
	*Chemistry Capabilities : Fast/Standard			
	*Features to assist with 21 CFR Part 11	45.0	the state of the state of	,
1	* Number of copies: 1 copy	İ	· ·	
1	*Sensitivity: Detect differences as small as 1.5-fold in			
i	target quantities in singleplex reaction			
		-		
	Part Number: A28569	` .		, I
			1,000	
2. [RNASE P 96-WELL INSTR VERIF PLATE	1	Included	Included
	Part Number: 4432382	1		incid(tet)
3 [KIT-TAQMAN 18S STARTER KIT EACH	1	Included	Included
	Part Number: 4352407			200 M
1. 1.0	96-well 0.2mL Background/ROI Plate	,	Included	مستعمل المراب والمستحر المستحر

Corporate office:

FFSR 9A, First Floor, Tel.:+91-120-43430 00 Ansal Premium Corporate Sulle, to 21(22 Lines) Ansal Ptaza, Sector-1, info@vision-groups.com Ghaziabad-201010, UP, India www.vision-groups.com

Flead Office

A-10, lind Floor, Acharya Niketan, Mayur Vihar, Phase-1, Delhi- 110091 Tel.:+91-11-2279 3914, 4805 4332, Fax.: +91-11- 2279 3914,

Mumbal Ossilius:
Shop No. 9 Emerald Aptis.,
Parsi Panchayat: Road,
Andheri (East) Mumbai 400 069
mumbai@vision-groups.com

Proprietary Article Certificate for procuring the goods from a single source under the provision of sub Rule 154(iii)

The indented goods are manufactured by M/s. Applied Biosystems (now a subsidiary of M/s. ThermoFisher Scientific, USA) (Model: QuantSTUDIDS) (Model: Q (ii) The system should be a standalone system with large touch screen LCD to avoid dependency on computer for operation with 10.0GB or more onboard memory for

storing data. The system should be an automated integrated system for both real-time PCR and post-PCR (end-point) analysis using in-built multiple Peltier and should support the temperature range from 4°C to 100°C.

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10. System should support various real-time quantitative PCR applications, including gene expression analysis, using relative standard curve, comparative Ct ($\Delta\Delta$ Ct) 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.

11. System should be supplied with a 2.0KVA (or suitable) Online UPS with three hours

backup.

Concurrence of finance wing to the proposal vide:.....

Approval of the competent authority vide:

(Signature with date and designation Of the procuring officer)

(iii)

2



Ref: vdipl/2016-17/1965

PERFORMA INVOICE

Dated: 20/12/2016

To
The HOD
Department of Transplant Immunology
& Immunogenetics A.I.I.M.S
New Delhi-110029

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Dear Sir/Madam,

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1	Quant Studio 5 -System with Notebook Computer	1	39,95,000.00	39,95,000.0
	The Applied Biosystems® QuantStudio® 5 Real-Time			
	PCR System is designed for users who need superior			
	performance, maximum dye versatility, and security			
	options in a real-time PCR system that is affordable and			the state of the second
	easy to use. The optimized Design and Analysis software	d*.	100	Fig. 3.2 ≥ 28.
	is ideal for both first-time and experienced users. Sample		The second	
	capacity (wells)	1 :		
- 4				Ne street than so
hagh o	Qualitative, post-PCR detection for automated allelic		10 miles (10 mil	1 "
	discrimination (SNP genotyping) assays and			and the second
1	presence/absence (plus/minus) assays that use internal		North Page .	
	positive controls.		4007	
			4	
j	*Chemistry Capabilities : Fast/Standard	1.		
- 1	*Features to assist with 21 CFR Part 11		2 mm (1974)	
i	* Number of copies: 1 copy		•	
	*Sensitivity: Detect differences as small as 1.5-fold in	1 . }		
	target quantities in singleplex reaction			
i				
. 1	Part Number: A28569	i `		
				4.4
2	RNASE P 96-WELL INSTR VERIF PLATE:	I ·	Included	Include
	Part Number: 4432382		•	
١ .	KIT-TAQMAN 18S STARTER KIT EACH	11	Included	Include
	Part Number: 4352407			AND THE PROPERTY OF
. T	96-well 0.2mL Background/ROI Plate	!	Included	12 located

Vision Diagnostic (India) Pvt. Ltd. Corporate office:

FFSR 9A, First Floor, Tel.:+91-120-43430 00 Ansal Premium Corporate Suite, to 21(22 Lines) Ansal Plaza, Sector-1, info@vision-groups.com Ghaziabad-201010, UP, India www.vision-groups.com Head Office

A-10, Ind Floor, Acharya Niketan, Mayur Vihar, Phase-1, Delhi- 110091 Viel.:+91-11-2279 3914, 4805 4332, Fax.: +91-11- 2279 3914, Shop No. 18. Emerald Aptis., Parsi Panghayat: Road, Andheri (East) Mumbai 400 069 mumbai@vision-groups.com





Part Number: 4432364		
Tarriamour. 1132301	Sub Total	39,95,000.00
	Special Institutional Discount @ 25%	9,98,750.00
	Total Price after Discount	29,96,250.00

Rs. Twenty nine lakhs ninety six thousand two hundred and fifty only.

Note:

1. 2 KVA online UPS is included in above offer from local source.

TERMS & CONDITIONS:

- · CDEC Certificate will be required at the time of clearance.
- Quoted prices are bonded warehouse prices no taxes applicable.
- Prices quoted are valid until 31st March 2017.
- · Prices given are for only the configuration/model/part code referred to above.
- Payment Terms: Net 30 Days after successful installation against I Note.
- Delivery: Delivery will be made within 6-10 weeks after receipt of confirmed order.
- · Comprehensive Warranty: 5 Years from the date of INSTALLATION.
- CMC Charges: As per the price negotiations meeting CMC charges after expiry of 5 Years Warranty
 Period will be 6% of equipment's cost and 10% increase every year.

Please note that Service Tax (Actual) will be charged extra on the above - mentioned CMC charges.

Thanking You, You's Faithfully,

For VISION DAJGNOSTIC (I) I

AUTHORISED SIGNATORY

(Dage)

Vision Diagnostic (india) Pvt. Ltd. Corporate office:

FFSR 9A, First Floor, Tel.:+91-120-43430 00 Ansal Premlum Corporate Suite, Ansal Plaza, Sector-1, info@vision-groups.com Ghaziabad-201010, UP, India www.vision-groups.com

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Mumbai

Shop No.-19, Emerald Aptis., Parsi Panchayat Road, Andheri (East) Mumbai 400 069 mumbai@vision-groups.com



The world leader in serving science

Invitrogen BioServices India Pvt. Ltd. 372, Udyog Vihar Phase - II Gurgaon - 122 016 Haryana T+91 124 6722800 F+91 124 6722850, 6722851

TO WHOM-SO-EVER IT MAY CONCERN

This is to certify that QuantStudio 5 Real-Time PCR System having the Part Number A28567(0.1 ml block) & A28574(0.2ml block) and comes under Patent No. WO 2016127128 A1& WO 2016127124 A3 (publications contain claims that are not issued claims and may change greatly before they are issued) manufactured brand Applied Biosystems (part ThermoFisher Scientific) is the proprietary item and has following unique features:

- 1. The QuantStudio® 5 real Time PCR system has the VeriFlex™ Technology. This technology involves. Multiples separate heating/cooling elements below each of the multiple segmented metal blocks. VeriFlex technology allows for a true linear temperature slope across metal blocks with the ability to set up to 6 different temperatures. The user can set each temperature zone uniquely, allowing for better control of temperature optimization.
- 2. The QuantStudio® 5 real Time PCR system has the OptiFlex technology, OptiFlex system which combines 6 excitation and 6 emission filter sets to enable collection of upto 21 unique combinations of wavelength during a single run for multiplexing. With true six color
- The QuantStudio® 5 real Time PCR system has ThermoFisher cloud, which allow users to access
 and securely share result with colleague anywhere, anytime from any location with internet access.
- 4. The QuantStudio® 5 real Time PCR has on-board storage capability with memory capacity of 10GB for storing between 1000-5000 standard absolute quantification run files and is designed for maximum run protection in case of network or power outage.

5. The QuantStudio® 5 Real-Time PCR has best in class ramp rate which 6.5 °C/Sec enabling less 30min run time

For in Angles Bioservices India Pvt. Ltd.

Authorized Signatory

Registered Office : Invitrogen BloServices India Pvt. Ltd 2nd Floor, First Trachnology Place, 3 EPIP Withtefield, Bangatore 560 068 7-91 80 41785401, 41785400, F+ 91 80 41890420, 41299423

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PHOTOGOPY ATTESTED

Advocate Notary Public Ghazlabad

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Invitrogen BioServices India Pvt. Ltd 372, Udyog Vihar Phase - II Gurgaon - 122 016 Haryana T+91 124 6722800 F+91 124 6722850, 6722851

QuantStudio 5 Real-Time PCR System

Applied Biosystems has been innovating real-time PCR for over 20yrs and Leveraging Applied Biosystems® engineering and best-in-class industrial design, QuantStudio® 5 System are the latest additions to our family of QuantStudio® systems. QuantStudio® 5 Systems allow maximum efficiency with a high level of performance for multiple applications, including genotyping, miRNA and gene expression analysis, copy number determination, strain identification, presence/absence detection, and melt curve analysis

The QuantStudio 5 systems allow maximum efficiency with a high level of performance for multiple applications, including genotyping range of applications including genotyping, miRNA and gene expression analysis, presence/absence detection, strain identification, and melt curve analysis. The instruments permit multiplex experiments for all of these applications.

Life Technologies is the sole manufacturer and vendor of the QuantStudio® 5 Real-Time PCR System (Part Numbers A28138, A28139, A28140, A28568, A28569, A28570, A28573, A28574, A28575).

At the core of QuantStudio 5 systems are Applied Biosystems™ VeriFiex™ and OptiFlex™ technologies, Remote Accesss & Cloud Connectivity and Highly sensitivity

VeriFlex™ Technology: - VeriFlex™ Blocks provide independent temperature zones for precise temperature control over your qPCR optimization. This technology involves Multiples separate healing/cooling elements below each of the multiple segmented metal blocks. Each pair of heating/ cooling elements and segmented metal blocks are completely insulated from each other to help prevent heat interactions, As a consequence, VeriFlex technology allows for a true linear temperature slope across metal blocks with the ability to set up to 6 different temperatures. The user can set each temperature zone uniquely, allowing for better control of temperature optimization

ingisterial unite: "Intitopen BisSavices India Pvt. Ltd Privitopen BisSavices India Pvt. Ltd 2nd Floo, First Technolopy Piaco, 3 EPIP Wildelield, Bangalare 560 01 T-491 80 4 1798/401, 1788/401, F-91 80 4 1680/430, 41259/423 www.libermolisiaccom CIN: U731/08KA2084PTC035330 (Taba)

Thermofisher scientific

The world leader in serving science

Invitrogen BloServices India Pvt. Ltd 372, Udyog Vlhar Phase - II Gurgaon - 122 016 Haryana

OptiFlex™ technologies: - OptiFlex technology provides entance of 22 optiFlex system which combines 6 excitation and 6 emission filter sets to enable collection of upto 21 unique combinations of wavelength during a single run for multiplexing. With true six color multiplexing capability White-light LED optics system enables powerful, extremely accurate and sensitive data collection

Remote Access & Cloud Connectivity: - Enabled by Thermo Fisher Cloud which allow user to easily access and securely share results with colleagues anywhere, anytime from any location with internet access.

High Sensitivity: - The QuantStudio®5 systems provide sensitive detection and high confidence target discrimination down to 1.5-fold differences in singleplex reactions and obtain 10 logs of linear dynamic range.

Advance Touch Screen: - The QuantStudio® 5 Real-Time PCR has the latest advancements in touch screen usability, allowing to Pause a real-time PCR in progress. The user can choose the temperature the block should remain at during the run pause. 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.

MIQE quideline support: - The instrument software allows users to save predefined analysis settings for auto-exporting run data into their format of choice, including RDML (real-time data mark-up language, compliant with MIQE guidelines) export format

<u>Fast Ramp Rate: -</u> The QuantStudio® 5 Real-Time PCR has best in class ramp rate which 6.5 °C/Sec enabling less 30min run time

a la Pr

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Registered Citics: Invitrogen EliGevicics India Pvt. Ltd Jond Hoos, First Tachinology Place, 3 EPIP Willtofield, Bangolpie 950 656 T-91 98 41785401, 41786400, Fv 91 50 41880450, 41259423 www.ttermpidis.com Citi. 1173100KA2004PTC039330

10

Patents

Find prior mt Discuss this application

Methods and systems for biological instrument calibration WO 2016127124 A3

in one exemplary embodiment, a mothod (100) for calibrating an instrument is provided. The instrument includes an optical system capable of imaging florescence emission from a plurality of reaction sites. The method includes performing a region-of-interest (ROI) calibration (102) to determine resultan alte positions in an image. The method further includes performing a pure dye calibration (108) to determine the contribution of a fluorescent dye used in each calibration (108) to determing the contribution of a hiddrescent dye used in each resellor site by comparing a raw spectrum of the fluorescent dye to a pure spectrum calibration data of the fluorescent dye. The method further includes performing an instrument normalization calibration (110) to determine a filter normalization factor. The method includes performing an RNase P validation (112) Publication number Publication type Application number Publication date Filing date Priority date Also published as

WO2016127124 A3 Application PCT/US2016/016882 US20180231246, WO2016127124A2

Yong Chu, Jeffrey Marks, Jacob Freudenthat, Thomas Wessel: David Wou Life Technologies Corporation BIBTeX, EndNote, RefMan Export Citation itent Citations (2). Ciassifications (15),

Petent Citations (2), i Legal Events (1) External Links: Palentscope, Espacenet

quantities of sample.

DESCRIPTION: available in

CLAIMS available in

PATENT CITATIONS

Cited Patent WO2014153369A1 *

Mar 18, 2014 Sep 25, 2014

NON-PATENT CITATIONS

[retrieved on 20180510]
8ÉN SOWERS: "Thermal Cycler Spectral Calibration Instructions", 15 May 2014 (2014-05-15), pages 1 - 22, XF055271338, Rétrieved from the self-score symmetry of
· Cited by examiner

CLASSIFICATIONS

International

LEGAL EVENTS

Date

Ref document number: 16705012 Country of ref document: EP Kind code of ref document: A2

Ep; the app has been informed by wipo that ap was designated in this application 121

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12/8/2016

https://www.google.com/patents/WO2016127124A3?cl=cn