

पंजाब केन्द्रीय विश्वविद्यालय

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Central University of Punjab

City Campus, Mansa Road, Bathinda-151001, Ph: 0164-2864155, Email: procurement@cup.edu.in,
Website: www.cup.ac.in or www.cup.edu.in

Subject: Purchase of Quant Studio – 96 Real Time PCR Cat. No.A28567 (Make: Applied Biosystems, Thermo Fisher Scientific) under Project Grant for the Deptt. of Zoology on Proprietary basis – Inviting comments thereon.

An indent has been received from Department of Zoology, Central University of Punjab, Bathinda for procurement of **Quant Studio – 96 Real Time PCR Cat. No.A28567 (Make: Applied Biosystems, Thermo Fisher Scientific)** from M/s Invitrogen Bioservices India Pvt. Ltd. on proprietary basis. The proposal submitted by M/s Invitrogen Bioservices India Pvt. Ltd. and Departmental PAC certifications are attached herewith.

The above documents are being uploaded for open information and to invite objections, comments, if any, from any manufacturer/ supplier firm regarding proprietary nature of the equipment/item within 10 days from the date of issuance of this notice giving **Reference No. D - 15 dated 25.10.2019**. Objections/ Comments should reach Office of the Purchase Officer, Central University of Punjab, City Campus, Mansa Road, Bathinda – 151001 by post or through email procurement@cup.edu.in on or before 26.12.2019 failing which it will be presumed that no firm has any objection/ comment to offer and case will be decided on merits as per rules.

Sd/-
Purchase Officer

Encl.:
PAC Certificates & related documents.

Customer Address

The Registrar
Central University of Punjab
City Campus, Mansa Road
Bhathida

Quotation No : 885533/CBC/CUP/2019
Date : 20-Oct- 2019
Validity : 60 days
Delivery : 6-8 weeks after receipt of confirmed Order
Payment : As per institute

Sl. No.	Cat. No.	Item	Qty.	Unit price(INR)	Total Price (INR)
1	A28567	<p>Quant Studio 3 – 96 Real-Time PCR ✓</p> <p>QuantStudio® 3 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.</p> <p>Proprietary Features</p> <p>-When connected to the Cloud, the QuantStudio® 3 system provides access to your data wherever and whenever you want.</p> <p>*Using proven OptiFlex® technology (featuring 4 coupled channels and white LED) and featuring three independent Veriflex® temperature zones, the QuantStudio® 3 system enables improved data accuracy and sensitivity for a broad range of genomic applications. Features of the QuantStudio® 3 system include:</p> <p>*Secure cloud-based software option provides increased accessibility and storage options</p> <p>*Sensitivity - The system has capability to detect as little as 1.5 fold change in singleplex reactions.</p> <p>The system supports high ramp rate of 6.5 °C/sec with 96 well Peltier block.</p>	1		11,98,000.00
		NET VALUE			11,98,000.00
		ADD GST@5%			59,900.00
		TOTAL FOR VALUE			12,57,900.00

Amount in Words: INR Twelve Lakh Fifty Seven Thousand Nine Hundred Only

Note:

- 24 months from the date of Installation or 27 months from the date of Shipment, whichever is earlier.
- We would be requiring valid GST exemption letter along with the supply order else GST will be charges as actual.
- A Compatible Latest Notebook Computer included in above offer as part of main instrument.
- Supply & Billing will be done through our authorized channel partner i.e. JC TRADING COMPANY, Shop No 2, Heeran Jattan Mohala , Near Canara Bank, Nawanshahr, Punjab-144514

Authorized Signatory



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Annexure C -Proprietary Article Certificate

As per Rule 166 GFR 2017 –

Single Tender Enquiry. Procurement from a single source may be resorted to in the following circumstances:-

- i. It is in the knowledge of the user department that only a particular firm is the manufacturer of the required Goods.
- ii. In a case of emergency, the required goods are necessarily to be purchased from a particular source and the reason for such decision is to be recorded and approval of competent authority obtained.
- iii. For standardisation of machinery or spare parts to be compatible to the existing sets of equipment (on the advice of a competent technical expert and approved by the competent authority), the required item is to be purchased only from a selected firm.

Note: Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub Rule 166 (i) and 166 (iii) as applicable.

1. The indented goods are manufactured by M/s.....Thermofischer Scientific

2. No other make or model is acceptable for the following reasons:

Proprietary feature mentioned in Annexure A and justification attached.

3. Concurrence of finance wing to the proposal vide :

4. Approval of the competent authority vide

It is certified that if any challenge/issue/complaint arises in view of this item on Proprietary basis at any stage. R.K. Chaturvedi (Name) will be fully liable/responsible for the purchase.

R.K. Chaturvedi
24.10.2019
Signature with date

Designation of Indenting Officer

Aklank Jain
Signature, Head of the Department

With Office seal



Aklank Jain
Associate Professor
Head of Department
Department of Zoology
School of Basic and Applied Sciences
CENTRAL UNIVERSITY OF PUNJAB, BATHINDA

Date: 24.10.2019

Justification

1. Apart from providing all the general features of a good real-time PCR, the system should very high ramp speed of > 6 C/sec which enables reduction of overall runtime of the reaction. This becomes important when dealing with extremely sensitive microrna quantitation studies and small sample collections. Approximately 100-200 midguts, salivary glands, hemolymph (50-100 ul from 100 mosquitoes) are to be isolated for each single preparation of microrna from the mosquitoes. Further, tissues like midgut, salivary gland and hemolymph are rich in proteases including RNAses. To establish infected cycle of malaria in the mosquito and collect both infected vs uninfected samples requires a minimum period of 3 months. Run-time of real-time (governed by ramp speed) becomes a limiting factor in such studies.
2. The current project is a collaborative project with expertise from University of Hyderabad. The data obtained needs to be verified and analysed for multiple samples in triplicates for each experimental study. A cloud-based data storage option provides increased accessibility and securely share result with the collaborator anywhere, anytime from any location. This features adds-up to analyse and compile the results and data in a time-bound and hassle-free manner. Further, frequent travel trips can be avoided.
3. Provision for atleast three independent temperature zones for multiple annealing conditions and for precise temperature control and 4 coupled channels with white LED to minimize data variations and enhance data accuracy is expected. Objective 3 of the under proposed project deals with GFP and fluorescence -based luminometric studies which are quite cumbersome and involves sensitive and specific PCR assaying. The above mentioned features would enable successful completion of the mentioned objective.
4. The system should be highly compact and portable and occupies minimum space in the laboratory
5. Sensitivity to detect as little as 1.5 fold change is an added advantage especially when time-based and infection-based studies are planned under the current project.

The Quant Studio 3 real time PCR is the latest upgradation from the Applied Biosystems of ThermoFischer Scientific which is the preferred choice under the research project titled 'microrna-mediated gene regulation of Anopheles mosquito immunity during early phase of malarial parasite transmission (GP-144)' for the above mentioned reasons

R.k. chaitanya

Enclosure (2)

Date: 20/10/19

TO WHOM-SO-EVER IT MAY CONCERN

This is to certify that **QuantStudio 3 Real-Time PCR System** manufactured brand of Applied Biosystems (part of Thermo Fisher Scientific) is the proprietary item and has following unique features in single system:

1. The system has the VeriFlex™ Technology. VeriFlex technology allows for a true linear temperature slope across metal blocks with the ability to set up to 3 different temperatures. Can set up each temperature zone uniquely as user defined, allowing for better control of temperature optimization.
2. The System has a linear dynamic range of up to 10 orders of magnitude and has the capability to detect as little as 1.5-fold differences in target quantity.
3. The system supports peltier block with ramp rate of 6.5 °C/sec enabling fast protocol run time less than 30 min.
4. Protein Thermal Shift™ software – The software generates one or multiple T_m values following two methods: Boltzmann-derived T_m and the Derivative curve determined T_m.
5. The system can be connected to the online ecosystem (Thermo Fisher cloud) and instrument data/status will be automatically uploaded, allow users to access and securely share result with colleague anywhere, anytime from any location with internet access.


For **Invitrogen Bioservices India Pvt Ltd**

Gurgaon

Authorized Signatory

