



Tender for supply of a digital PCR

Date: 01-December-2021

GTE Approval: IISc-GTE-2021-087

A request for quote for the supply of a digital PCR (dPCR) at the Department of Molecular Reproduction, Development and Genetics (MRDG) at the Indian Institute of Science, Bangalore. The proposals should be submitted by 5 pm on 15-December-2021.

Quotes should be submitted by authorized distributors only.

Terms and Conditions

1. The quotations should be submitted in two bids i.e., Technical bid and Commercial bid.
 - a. The technical bid must include details of all technical specifications of the instrument (detailed below) along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.
 - b. The commercial bid must include the price of the instrument indicating break up of:
 - I. For goods:
 - i. Installation, commissioning and training charges, including any incidental expenses if any
 - ii. Agency commission charges, if any.
 - iii. Provide certificates for country origin of manufacturing for each line item.
 - II. Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (fixed and ready to use) in our facility.
 - c. Both the Technical and Commercial bid should be put in separate sealed envelopes and put together in another cover stating, "digital PCR".

2. All components listed for the equipment must come from a single vendor, and functional integration of all parts is necessary. The vendor should have a good track record of having previously supplied a digital PCR in India or abroad (please furnish details).
3. The vendor should have qualified technical service personnel based in Bangalore capable of servicing the equipment.
4. The quotations should be on Freight on Road (FOR)-IISc Bangalore basis in INR only.
5. The lead time for the delivery of the equipment should not be more than two months from the date of receipt of purchase order.
6. The validity period of the quotation should be 90 days.
7. If the goods are found to be defective, they must be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.
8. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time to award of construct without thereby incurring any liability of the affected bidder or bidders.

Technical specifications for digital PCR

1. Droplet digital PCR (dPCR) supporting a 96-well plate format.
2. The dPCR should support at least 2 color multiplexing capability.
3. The dPCR should produce partitioning through a minimum of 20 thousand droplets per sample.
4. The reaction volume per sample should be at least 10 μ l.
5. The system should be fully integrated to support reaction partitioning, thermal cycling, and imaging.
6. The system should be compatible with fast cycling.
7. The ramping rate during amplification should be at least 4 $^{\circ}$ C/second.
8. Temperature uniformity of block should be $\pm 0.2^{\circ}$ C.
9. The system should be compatible with probe-based detecting chemistry, EvaGreen or SYBR dyes.
10. The system should support genomic gDNA and cDNA as the template material.
11. The software required for setting up the digital PCR experiment, for monitoring its progress, for quantification and analysing all resulting data should be installed on a computer that can be integrated with the dPCR machine.
12. The licensed software should be installed on a laptop that should be provided with the dPCR machine and should have the following configuration (or better): minimum Intel

- i5 equivalent processing capacity, minimum 16GB DDR4 RAM, 2TB HDD or SSD drive, minimum 1 GB Graphics card, internal Wi-Fi card, internet port, minimum 14" monitor, licensed Windows 10 64-bit OS.
13. Minimum 3 KVa online UPS backup for all components of the equipment.
 14. Training and Warranty: On-site installation and technical training; 1-year complete system warranty + additional 2-year AMC.
 15. Dust covers and all necessary accessories for the safety and protection of the equipment and their dependent parts should be provided.

The above-mentioned technical specifications are highly desirable. However, the Institute reserves the right to go for lower specifications taking into considerations its financial constraints and technical preferences.

Bids may be submitted, latest by 5 pm on 15-December-2021 to:

The Chair,
Dept. of MRDG,
Indian Institute of Science
Bangalore 560012

Ms. Shyama
1/12/21

Shantanu Shukla

अध्यक्ष / Chairman
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