



॥ सा विद्या या विमुक्तये ॥

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

EXPRESSION OF INTEREST

No. IITDh/GA/CRF/2018-2019/09

**EXPRESSION OF INTEREST (EoI) FOR PROCUREMENT
of
REAL TIME PCR SYSTEM**

1. Introduction

IIT Dharwad is an Institute of National Importance created by an Act of Parliament in 2016. IIT Dharwad has been steadily establishing its operations in its transit campus. Simultaneously, the institute is employing bright young and accomplished faculty. A number of unique research and development programs are on the anvil. The institute now needs to raise the levels of the capacity with the best of the facilities and infrastructure. This will provide highly talented and accomplished faculty to pursue not only their research but also think of innovative way of introducing instructional/teaching/learning solutions to practical problem of the students.

2. Objective

The objective of this invitation of Expression of Interest (EoI) is to seek responses from eligible Vendors for SUPPLY, INSTALLATION, COMMISSIONING, DEMONSTRATION and TRAINING OF Real Time PCR system as per Annexure-I

3. Timelines

3.1 Major activities in the procurement process will be as given below: -

Sl No	Activity	Remarks
(a)	Pre-Bid Meeting	<ul style="list-style-type: none">To clarify the issues/ queries raised by intrested firms facilitate submission of bids.
(b)	Deadline for submission of EoI	<ul style="list-style-type: none">Till 14.00 Hrs on 12/11/2018
(b)	Issue of Tender Document	<ul style="list-style-type: none">Only to the vendors who submit the response to the EoI. The tender document to such vendors will be sent via e-mail
(c)	Submission of Tender Documents	<ul style="list-style-type: none">Deadline for bid submission : Till 16.30 hrs on 03/12/2018(Tentative), based on updated specifications and tender document
(d)	Evaluation of Technical Bids	About 3 weeks (Tentative)
(e)	Opening of Commercial Bids	<ul style="list-style-type: none">The shortlisted bidders will be intimated by e-mail the schedule of opening of the commercial bids
(f)	Award of Contract	<ul style="list-style-type: none">The selected vendor will be awarded the contract.

4.0 Material Description: Real Time PCR system as per specifications described below in Annexure-I

4.1

Annexure-I

Specification for Real Time PCR

Real Time PCR system should offer the following:

- A Peltier based interchangeable 384 well/ 96 well thermal cycler with temperature range of 4°C to 100°C
- Compatibility to Standard 96 x 0.2 ml PCR tubes or plates or 8 well strips and 384 well plate.
- Each well should receive the same amount of excitation light
- Each well should receive excitation light for the same length of time
- Gradient capacity in Real-time along with programmable gradient feature.
- Temperature stability $<\pm 0.30^{\circ}\text{C}$ from ambient to 95°C
- Heating and cooling rate $1-3^{\circ}\text{C} / \text{S}$
- System should be capable for detection of at least 5 colours or better including SYBRGREEN, TEXAS Red
- System should have fast 40 cycle protocol run time to complete the PCR cycle (with less than 120min)
- LED based Excitation.
- The system should be capable for FRET analysis with alternative filter sets at same time
- Minimum five-position (or more) fluorescence excitation as well as emission filters for minimum 5 color multiplexing capability up to 5 or more dyes in a same tube without ROX reference dye.
- System should collect data for all 5 or more filters for all wells regardless of plate setup.
- 10 logs of dynamic range or higher
- System should work with different probe chemistries like SYBR Green, TaqMan, Molecular Beacon etc.
- Operations stand alone or through computer
- Shall include the latest software required for data acquisition and offline analysis
- The application software should include qualitative detection quantification, and gene expression analysis. Tm calling melting curve based analysis of known and unknown genetic variation and end point analysis.
- Computer should have inbuilt 500 GB HDD at least for image storage, 6 USB slots, 1 network port, intel i5 or better at least 8GB RAM, DVD RW drive, key board, optical fiber mouse, 18" or large LED monitor, window 8 applications
- Reagents for 1000 reaction of SYBR green master mix, cDNA synthesis kit, RNA extraction kit, compatible 96 well plates (package of 100) and plate seal should be provided with the instrument.
- Suitable on - line UPS (about 2 KVA) is required to support the instrument.
- Free of charge training of students in equipment maintenance by the certified company engineers during the warranty period at IIT Dharwad.
- The complete instrument and accessories excluding consumables should be under comprehensive warranty for period of 3 year from the date of installation. The service personnel should respond within 24 hrs. and be on campus in 72 hrs. for repairs.
- Dust cover, all wires, cords, connectors and standard accessories needed for proper functioning of the RT-PCR system's operation shall be included.

DETAILS OF PRE-BID MEETING

To clarify the issues/queries raised by interested firms and to facilitate in submission of bids, the pre-bid meeting would be held as follows:

Place	Time	Date
Board Room, Admin Building, IIT Dharwad	14.00 Hrs	12/11/2018

PROCEDURE FOR SUBMISSION OF RESPONSE TO THE EoI

The response to the EoI should reach IIT Dharwad on or before 12/11/2018 by 14.00 hrs on the following address:

The Assistant Registrar
IIT Dharwad
P.B. Road, Near High Court, Dharwad-580011

Or can be forwarded by e-mail at pro@iitdh.ac.in on or before 12/11/2018 by 14.00 hrs.

For any queries, you may reach us at 0836-2212839

Please acknowledge the receipt of this invitation for EoI

Sd/-
Assistant Registrar
IIT Dharwad