



**ICAR - CENTRAL INLAND FISHERIES RESEARCH INSTITUTE**  
**AN ISO 9000 : 2008 Certified Organization**  
**Barrackpore, Kolkata-700 120, West Bengal**

Ph.033 2592-1190/1191, FAX No.033 2592-0388/2545-1063, E-mail: [storeseccifri@gmail.com](mailto:storeseccifri@gmail.com)  
**GST NO.19AAAGC0090D1ZX**



F. No. Capital (DBT Twining – PCR)-111(2/A)/2019-Stores

Dated 3<sup>rd</sup> September, 2019

**OPEN E-TENDER NOTICE**

**Tender No. Capital (DBT Twining – PCR)-111(2/A)/2019-Stores**

**E-Tender Id.:- “2019\_DARE\_499475\_1”**

The Director, ICAR-CIFRI invites online Limited Quotation through e-procurement portal ([www.eprocure.gov.in](http://www.eprocure.gov.in)) in 2 (*two*) **Bid Systems** from the Manufactures/Authorized Dealers/reputed firms for the supply, installation/commissioning and training of personnel (if required) of one **Real Time PCR System** at ICAR-CIFRI, Barrackpore, Kolkata-700 120, West Bengal on F.O.R. basis. The tender document and specification details may be downloaded from the Institute’s Website: [www.cifri.res.in](http://www.cifri.res.in) or e-procurement portal [www.eprocure.gov.in](http://www.eprocure.gov.in).

No bid other than online quotation shall be entertained. However, only the Demand Draft for EMD as mentioned at para 2 and 4 of Terms and Conditions (Annexure-I) should reach ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120 within the Bid submission end date and time.

The tentative Schedule of processing of quotation is as follows:-

1.	Date and Time for Issue/Publishing	11.00 AM on 03.09.2019
2.	Document Download/Sale Start Date and Time	12.00 Noon on 03.09.2019
3.	Document Download/Sale End Date and Time	11.00 AM on 24.09.2019
4.	Bid Submission start Date and Time	12.00 Noon on 03.09.2019
5.	Bid Submission End Date and Time	11.00 AM on 24.09.2019
6.	Date and Time for Opening of Technical Bids	11.00 AM on 25.09.2019
7.	Address for Communication	The Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120

The aforementioned dates may vary and the change in date shall be suitably intimated in public domain.

Assistant Administrative Officer (Stores)

**TERMS AND CONDITIONS**

1. Each bidder should bid item wise/As per period of supply through online BOQ. Price must not be quoted in Technical Bid.
2. The following documents in PDF Format are to be uploaded with the quotation through e-procurement portal [www.eprocure.gov.in](http://www.eprocure.gov.in). As mentioned at Tender notice, the Demand Draft only as mentioned at para 2 and 4 below should reach ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata – 700120 within the Bid submission end date and time.
  - a) Authenticated PDF Copy of Company Registration/Trade License.
  - b) Authenticated PDF Copy of Certificate showing performance of this type of supply in the past e.g. copy of Purchase Order and Challan, installation and commissioning Certificate, certificate issued by Authorized Officer of Department.
  - c) Authenticated PDF Copy of PAN & GST Certificate.
  - d) PDF Copy of Demand Draft (EMD Rs.30,000/-). For exemption, authenticated and valid MSME/NSIC certificate has to be submitted.
  - e) Authenticated PDF Copy of valid Dealership/Authorization Certificate from manufacturer.
  - f) Authenticated PDF copy of Declaration as per Annexure-III in letter head of the firm.
  - g) Authenticated PDF copy of Technical Bid along with Make/Model/Brand and catalogue of the quoted item must be included by the bidders, failing which Technical Bid will be rejected.
3. The specification of the items are enclosed in **ANNEXURE-II**. The rate should be quoted on F.O.R. basis at ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata - 700120 as mentioned in the Tender Notice and specification.
4. Tender documents submitted through online should accompany PDF Copy of Demand Drafts of EMD of ₹30,000/-. The EMD in the form of Demand Draft payable at “ICAR Unit -CIFRI” payable at SBI, Barrackpore as mentioned at para 2 above may be sent to the Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120 within last date of receipt of tender. In case of non-submission of EMD within specified time even for postal delay, quotation will not be considered. The EMD shall be returned to the successful and un-successful bidders as per rules without any interest thereon. The amount of EMD will be forfeited if supply is not effected during the given time and contract will stand cancelled. EMD is exempted for the bidders having MSME/NSIC Certificate or as per rules.
5. Tender once submitted should remain valid at least for 90 (ninety) days for acceptance from the date of opening of tender.
6. (a) The online bid should contain two envelopes containing the Technical Bid and Financial bid in the form of BOQ.  
  
(b) The envelope containing DD for EMD and Tender fee should be superscribed as “Tender for supply of Real Time PCR System” as detailed in Notice Inviting e-Tender (NIT).

7. TENTATIVE DATES OF PROCESSING OF TENDER

1.	Date and Time for Issue/Publishing	11.00 AM on 03.09.2019
2.	Document Download/Sale Start Date and Time	12.00 Noon on 03.09.2019
3.	Document Download/Sale End Date and Time	11.00 AM on 24.09.2019
4.	Bid Submission start Date and Time	12.00 Noon on 03.09.2019
5.	Bid Submission End Date and Time	11.00 AM on 24.09.2019
6.	Date and Time for Opening of Technical Bids	11.00 AM on 25.09.2019
7.	Address for Communication	The Assistant Administrative Officer (Stores), ICAR-CIFRI, Barrackpore, Kolkata-700120

8. Rates quoted for the item should include the taxes/duties and transportation cost/delivery cost etc. (on FOR basis) of the items at the mentioned places. Taxes/ duties are to be mentioned in the BOQ and no subsequent claim for taxes/ duties etc. will be entertained separately.
9. The PDF copies submitted as Technical Bid on e-procurement portal should be legible. The mistake should be corrected by one stroke and initialed.
10. Make/Model/Brand/Catalogue along with all specifications of the quoted item must be included by the bidders in their Technical Bids online, failing which Technical Bid will be rejected.
11. Incomplete tender and bids not in prescribed format according to the terms and conditions as mentioned hereinabove shall be rejected forthwith.
12. Tax deduction at source will be made wherever applicable.
13. Payment will be released only against the pre-receipted bill indicating the Bank details of the supplier, to be submitted in triplicate within 30 days of supply and installation/commissioning of the item in good condition. Payment will be made through e-payment. The Performance Security of 7% of the cost of the equipment shall have to be submitted by the supplier, which should be valid at least for one year.

14. LIQUIDITY DAMAGES:-

- i) In all cases of delay by the supplier in delivery of the materials or any or all of the goods or to perform the services forming the subject matter of this contract beyond the periods specified in purchase order, other than a delay (Force Majure), the buyer shall have the right without prejudice in its other remedies under this contract, to claim liquidated damages amounting to 0.5% per week of the delivery price of the delayed goods or performance of services for each week/month or part thereof of delay until actual delivery or performance. However such damages shall not exceed 10 % of the delivery price of the goods or services of which the delivery or performance has been delayed.
- ii) The supplier shall remit the amounts due to Buyer under clause (i) above, within 30 days of receipt of demand from the Buyer. If the supplier fails to make the payment within the period of 30 days, the Buyer shall have the right to recover it from other payments due to the supplier.
- iii) In the event the buyer terminates the Contract, the Buyer shall also have the right to procure, upon such terms and in such manner as it deems appropriate, goods or services similar to

those undelivered, and the supplier shall be liable to Buyer for any excess cost incurred by the Buyer for procuring such similar goods or services. However, the supplier shall continue performance of the contract to the extent not terminated.

15. The supplier will have to arrange for Road Permit/Way Bill if required for the supply of stores. All the documents required in this regard will be supplied by the Institute.

16. Resolution of disputes:

i) All disputes, these agreements or questions arising out of or in connection with this contract or relating to its construction or performance shall be settled amicably by mutual consultation. If after 90 days the parties have failed to resolve their disputes or differences by mutual discussions, the matter shall be referred by arbitration in accordance with the Arbitration and Conciliation Act 1996. The Arbitral tribunal shall consist of an arbitrator nominated by the Buyer and another nominated by the supplier. The third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as the presiding arbitrator. In case of failure of two arbitrator appointed by the parties to reach a consensus about the third arbitrator (Presiding arbitrator) within a period of 90 days from the appointment of the arbitrator appointed subsequently, the presiding arbitrator shall be appointed by the Indian Council of Arbitration. The decision of the majority of the Arbitrator shall be final and binding on the parties.

ii) The Parties shall continue to perform their obligations under this Contract during the conciliation/arbitration proceedings. The cost of arbitration (including the fees and expenses of the arbitrators) shall be shared equally by the parties, unless the award specifies otherwise.

iii) This article shall survive the termination of this contract.

17. The Director, ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata- 700 120, West Bengal reserves the right to accept or reject any or all the tenders either in part or in full without assigning any reasons whatsoever.

18. In pursuance of Notification No. 45/2017-Central Tax (Rate), dated 14<sup>th</sup> November, 2017 issued by the Department of Revenue, Ministry of Finance, Government of India, ICAR-Central Inland Fisheries Research Institute is an Autonomous Institute under Indian Council of Agricultural Research, Department of Agricultural Research, Ministry of Agriculture and Farmers' Welfare, Government of India and is fully (100%) funded by the Government of India and hence satisfies the Explanation (a) "**Public funded research Institution**" of the said notification for the purpose of availing exemption under Section 9 of the Central Goods and Services Tax Act, 2017 (12 of 2017). This Institute is a Department as mentioned in Sl. No. 3 of the Table contained in the aforementioned Notification and for purchase of the following items, viz.

(a) Scientific and Technical instrument, apparatus, equipment, Computer

(b) Accessories, parts, consumables and live animals

(c) Computer software, CD-ROM, recorded magnetic Tape, microfilm, microfiches

(d) Prototypes, the aggregate value of the prototypes received not exceeding ₹ 50,000/- in this Financial Year

**the Institute is entitled to the Goods and Services Tax at the rate CGST @ 2.5% + SGST @ 2.5% OR IGST @ 5% to be levied on the price of the item as per aforesaid notification.** The Director, ICAR-Central Inland Fisheries Research Institute issues suitable Certificate for purchase of aforementioned items in each case. No separate DSIR Certificate shall be issued.

**SPECIFICATIONS FOR REAL TIME PCR SYSTEM**

**An automated system for both real-time PCR and post-PCR (end-point) analysis along with software-compatible laptop/PC and online ups using in-built Peltier based block with full license for PCR process.** The system should have atleast 3 years warranty. The system should offer the following specifications:

**APPLICATIONS**

The system should be capable of applications such as Absolute quantitation; Simultaneous analysis of data for relative quantitation for 10 number of plates of 96 wells each; Multiplex-PCR **minimum 2 targets**, allelic discrimination (SNP), miRNA profiling, Dissociation curve analysis, Copy number variation, Pathogen detection and plus/minus assay using internal positive control. The normalization of reaction due to non-PCR related fluctuations such as pipetting variations should be possible by using ROX™ or any calibrated dye.

**HARDWARE**

- A Peltier based 96x 0.2ml well thermal cycle
- Temperature range of 4 °C-100 °C is essential.
- Block ramp rate of 3-6 ° C/Sec or more.
- Machine must have temperature range 0-100°C with accuracy of minimum  $\pm 0.2^{\circ}\text{C}$  and minimum uniformity of  $\pm 0.4^{\circ}\text{C}$  within 10 sec of arrival at  $90^{\circ}\text{C}$ .
- Reaction volume 10-40  $\mu\text{L}$  and should use Universal thermal cycling conditions.
- Thermal cycler should be able to perform standard PCR without switching on the optical module of the machine.
- Standard transparent 96-well plates or individual transparent PCR tubes or 8 strip tubes compatibility.
- The system should be sensitive enough to detect as low as 1 copy of template from single reaction.
- The System should be combined at least 4 coupled excitation and emission filter sets to enable collection of wavelengths during a single run for multiplexing on the 96-well block instrument.
- Independent Peltier Block to provide atleast **three independent temperature zones** to run three different assays with varying annealing temperature at the same time. Each block having the ability to set up PCR with **specific temperature differential of up to 5 degree centigrade between blocks and  $25^{\circ}\text{C}$  from one end to another.**
- The instrument should include a heated lid assembly that heats the top half of the sample plates and provides an effective seal to minimize reaction mixture evaporation.
- The system should have easy door design for loading and unloading 96 well plates or individual 0.2 ml PCR tubes.
- Must be able to perform gene expression analysis by relative quantity ( $\Delta\text{Ct}$ ) or normalized expression ( $\Delta\Delta\text{Ct}$ ) for at least upto 5 fluorophores.

- The amplification should be viewed in real time while a run is in progress
- Must be able to perform automatic allelic discrimination by end point fluorescence or threshold cycle.

## OPTICS

- The excitation by White **LED light source** detection by CCD/sCMOS.
- **System must collect data for all filters for all wells regardless of plate setup.**
- System should be capable for detection of atleast 2 dyes- SYBR® Green, ROX™/ dyes on a single plate.

## SOFTWARE

- The data collection and instrument control software should provide multicomponenting algorithm for de convolution of multiple dye signal with minimum cross talk.
- It should be **possible to alter the plate setup after the completion of run.**  
The instrument should be at least MIQE compliant.
- Dedicated licensed full-version software with comprehensive assay design and development guideline for quantitative and qualitative real-time assays should be provided to enable designing of custom oligo-assay.
- Should have mode for Melt curve analysis
- Software must be able to perform multivariate analyses including 2-way ANOVA, Volcano plot, T tests, Clustergram etc.

## CHEMISTRY

- System should be an open platform enabling use of various chemistries without hardware change.
- It should be standardized for Taqman-MGB Probe based 5' Nuclease Assay and SYBR Green Chemistry, to be set-up on single plate with seamless switchover during the run.
- Pre-validated and functionally tested Taqman Gene Expression Assays as well as Taqman SNP Genotyping Assays should be readily available.

## CONSUMABLES

- System should be provided with compatible startup reagents for 500 reactions SYBR Green 10 boxes of 96 well plates and 100 Sealers.

**Annexure-III**

(Printed on letter head of firm duly authenticated)

**TO WHOM IT MAY CONCERN**

We hereby certify that our firm M/s .....

.....

..... has not been black listed by any Government, or semi Government Department in India and has never been declared insolvent.

**(Signature of the Firm with Seal)**