



National Institute of Immunology New Delhi-110067, INDIA

BID DOCUMENT (LIMITED TENDER) TENDER [TWO BID]

NAME OF EQUIPMENT: - 'Real Time PCR System'

Director, NII - NEW DELHI India invites *sealed tenders* in two bid system (**Technical Bid & Price Bid**) from reputed manufacturers and their authorized agents for the supply, installation & commissioning of the following item:

QTY	Name of the instrument	Enquiry Ref. No.	EMD to be given (Rs)	Cost of Tender Document (Rs)
1	Real Time PCR System	NII/EQ/LTEN/RT-PCR/DEC/17-18	Rs. 37,500/-	Rs. 500/- (Non Refundable)

- Last date & Time for Submission : 02.02.2018 upto 10.30am
- Date/Time for opening of bids : 02.02.2018 at 11.00am.
- EMD & Cost of Tender documents : Payable by DD or Pay Order in favour of Director, National Institute of Immunology, payable at New Delhi-110067

THE COST OF TENDER DOCUMENT OF RS 500/- ALONG WITH EMD OF RS. 37,500/- MUST BE SUBMITTED IN THE FORM OF DD OTHERWISE THE TENDER WILL SUMMARILY BE REJECTED. *Please write the name of company and equipment with complete address on the reverse side of the Demand Draft/Pay order.* Detailed NIT for the same can be downloaded from websites www.nii.res.in & www.eprocure.gov.in.

The Technical bids will be opened in the presence of representatives of the tenderer's, if any of them present there. **If the date of opening happens to be a holiday, the bids shall be opened next working day at the same time.** Requests for postponement will not be entertained. Fax/email bids or late/delayed tenders shall not be considered.

Director, NII reserves the right to accept/reject any or all tenders either in part or in full without assigning any reasons thereof.

Section Officer (Store & Purchase)

Real Time PCR System

BRIEF SUMMARY OF QUOTATION & CHECKLIST

(Not to be used for Evaluation/Comparison Purpose)

(Please Fill ALL COLUMNS (DON'T Write 'AS PER QUOTATION') and 'PLEASE REFER TO YOUR ACTUAL OFFER ETC.')

(A) Quotation Summary :

Tender Ref. No.		Date	
Name of Item : 'Real Time PCR System'			
Pl. indicate 'name of Item' as per your offer)			
1.	Main Item Model NUMBER of ' Real Time PCR System ' <i>(Technical Specification given in Annexure-G)</i>		
2.	Payment Terms <i>(Pl. note that Conditional Payment Terms will not be Accepted)</i>		
3.	Delivery Time (Days or Weeks or Months)		
4.	Warranty Period (Months/Years)		
5.	Validity of Quotation (Days/Months)		
6.	Country of Origin (product)		
7.	Port of Shipment		
8.	Approx. Shipment Wt. (Chargeable Wt.) of the Item (Kg.)		
9.	Approx. Dimensions/Vol. of the Packed Consignment		

(B) Tender Check List

01	Whether following are mentioned on the Main (Outer) Envelope : Item Name, Reference No. , Last Date for submission of Tender, Date of Opening of Tender and Firm's Name & Address.	
02	Whether EMD is enclosed (With The Technical Bid Envelope in case of Two Bids)	
03	Whether Cost of tender document is enclosed (With The Technical Bid Envelope in case of Two Bids)	
04	Whether Demand Draft(s) is/are in the favour of the 'Director, National Institute of Immunology', New Delhi <u>Firm's Name/Ref. No. etc. has been mentioned on the back side of DDs/Pay Order.</u>	
05	The Bid Papers have been punched with a hole on the <u>Top Left Hand Corner Side</u> and <u>Properly Tagged</u>	
06	Only <u>Relevant</u> Documents (Technical Brochures/Leaflets etc.) required in support of the Quoted items have been enclosed. No Irrelevant Papers like ITCC, User Recommendations, and Order Copies etc. have been enclosed unless specifically asked for.	
07	Quotation have been duly signed and stamped by the Authorized & Competent person. All Cuttings/Over Writings have been duly checked, initialled and stamped (If Applicable).	
08	In case of Two Bid, Single Combined Offer has not been submitted OR 'Price Bid' has not been enclosed in the Envelope marked 'Technical Bid'.	
09	In case of Two Bid Systems, this Page will be enclosed with the Technical Bid with remarks against each of check list.	

We have read and understood the tender terms and conditions. The undersigned is competent to sign the tender documents including this page on behalf of the quoting firm.

Date

Bidder's signature with Seal

STANDARD TERMS AND CONDITIONS (STC)

INTRODUCTION

1. Eligible Bidders

- (i) This Invitation for Bids is open to all original manufacturers and/or their authorised dealers (specifically authorized by the original manufacturers) to quote on their behalf for this tender as per manufacturer's authorization form and Indian agents of foreign principals, if any who possess the qualifying requirements as specified.
- (ii) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser (NII) to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids. **Bidder has to give a declaration in this regard on their 'Letter Pad'.**

2. Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser (NII)", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

THE BIDDING DOCUMENTS

- 3. Cost of Bid Document:** The complete bid document is issued by NII for submission of bids by the vendors and Tender Document Fee of Rs. 500/- is kept by NII.
- 4. Contents of Bid Document:** The Bidder is expected to examine all instructions, forms, terms (ITB/GCC), and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive shall result in rejection of the bid.
- 5. Amendment to Bid Document:** The prospective bidders are required to keep a watch on the NII website w.r.t. any amendment to the tender document or to clarification to the queries raised by the bidders till 07 (seven) days prior to the opening of the tender. The Purchaser (NII) reserves the right to reject the bids if the bids are submitted without taking into account these amendments/clarifications. In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser (NII), at its discretion, may extend the deadline for the submission of bids.
- 6. Preparation of Bids :** Each Tenderer/Bidder has to submit an Affidavit (**Annexure-'B'**) in a e-stamp paper of Rs. 50/- (duly notarized) to the effect that the he/she/they undertake that:
 - (i) The documents submitted by the Bidder/Tenderer are genuine and undisputable and in the event of its coming to notice at later date that the documents are not genuine, Bidder/Tenderer shall be liable for criminal action and such compensation payable to NII as may be decided by the Institute.
 - (ii) The Bidder/Tenderer will not withdraw his/her/their tender after opening of Technical Bid and if done so; his/her/their EMD may be forfeited.
 - (iii) The Bidder has not been blacklisted by any of the Government Department/ Government Institutions etc. during last three years.
 - (iv) There is no complaint against the Bidder/Tenderer such as "*delayed supply, non-supply, non-submission of performance bank guarantee and refusal of supply etc.*" and for which 'no punishment of any type' has been given/awarded by any of the Govt. Departments/Govt. Institutions etc.

7. Documents Comprising the Bid

The bid is required to be submitted in **two parts**. One part is the '**Technical Bid**' and the second part is the '**Financial/Price Bid**'.

7.1. 'Technical Bid'

7.1.1 'Technical Bid prepared & filled-in by the Bidder shall include the following (without indicating the price in the 'Bid Form'):

- Check list form
- Bank details regarding the transfer of payment in '**Annexure-A**'
- Notarized Affidavit in a e-stamp paper of Rs. 50/- in '**Annexure-B**' ;
- Fall clause notice certificate in '**Annexure-C**'
- EMD and tender fee as Specified in the 'Invitation to Bid';
- Bid Form in '**Annexure-D**'
- Manufacturer's Authorization Form in '**Annexure-E**';
- Technical compliance statement form'- 1 in '**Annexure- F**'
- Technical Specification in '**Annexure- G**'
- Performance Statement;
- T&C Deviation Statement;
- Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract, if its bid is accepted as per qualification requirements/criteria.
- The Comprehensive Annual Maintenance Contract (CAMC) terms & conditions detailing the exclusions, if any, and the estimated life of the equipment offered.
- If the demonstration of the goods/equipment's are deemed essential as per the technical requirements then confirmation reflecting willingness to arrange demonstration of the equipment offered free of charge at NII or any other location on a mutually agreeable date, prior to opening of priced bid to ascertain conformity with the tendered specifications.
- Affidavit on 'E-stamp paper (duly notarised)' as **required under point-6 above**.

7.1.2 Copies of IT Returns for the last three financial years (2014-15,2015-16,& 2016-17)

- (i) Bidder has to submit the following documents to accept their Tender :
- **Proof of GST No.**
 - **Proof of PAN Card in respect of Firm or Proprietor as the case may be.**

7.1.3 Documents Establishing Bidder's Eligibility and Qualifications

- (i) The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted
- (ii) That the bidder meets the qualification criteria listed in Bid Document.

7.1.4 Documents Establishing Goods' Eligibility and Conformity to Bid Document

- (i) The documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.
- (ii) **Specifications are basic essence of the product. It must be ensured that the offers are strictly as per our specifications see 'Annexure G'**. At the same time, it must also be kept in mind that merely copying our specifications in their quotation shall not make firms eligible for consideration. The documentary evidence of conformity of the goods and services to the Bid Document may be in the form of literature, drawings and data, and shall consist of:
- (iii) A detailed description of the essential technical and performance characteristics of the goods;
- (iv) A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two years, following commencement of the use of the goods by the Purchaser (NII); and

- (v) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

7.1.5 Period of validity of Bids

- (i) Bids shall remain valid for 90 days after the date of Price bid opening prescribed by the Purchaser (NII). A bid valid for a shorter period may be rejected by the Purchaser (NII) as non-responsive.

7.2 Financial/Price Bid

7.2.1 Financial/Price Bid shall comprise the 'Technical Bid' with price indicated in the 'Price bid:'

- (i) **Prices Bid**
- (ii) The Bidder shall indicate the unit prices and total bid prices of the goods on CIF/CIP basis it proposes to supply under the order and enclose it with the price bid.
- (iii) Prices indicated shall be entered separately in the **following manner (for Indigenous Items):**
 - The price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, freight and GST as applicable), including all taxes already paid or payable
 - **Taxes:** We are exempted from payment of Customs Duty under notification No.51/96 dated 23.07.1996. **Hence Customs Duty, if any, should be shown separately.** Please mention the applicable taxes (GST) clearly. We don't issue any 'Form C' or 'Form D'. However, being R&D Organization 'Concessional customs duty Forms' can be issued. **No other charges except those mentioned clearly in the quotation will be paid.**
 - Rates should be quoted FOR at NIL, New Delhi inclusive of packing, forwarding, Customs clearance, installation and commissioning charges etc. If ex-works prices are quoted then packing, forwarding, documentation, freight and insurance charges must be clearly mentioned separately. Vague terms like "packing, forwarding, transportation etc. extra" without mentioning the specific amount/percentage of these charges will NOT be accepted. Such offers shall be treated as incomplete and rejected. **Where there is no mention of packing, forwarding, freight, insurance charges, customs clearance charges such offers shall be summarily rejected as incomplete.**
- (iv) Prices indicated shall be entered separately in the following manner (for Imported Items)
 - **Bidder shall quote unit price and total bid price on CIF/CIP basis in the price bid.**
- (v) Prices quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. **A bid submitted with an adjustable price quotation will be treated as non-responsive and shall be rejected.**
- (vi) **Bid Currencies :**
Prices shall be quoted in Indian Rupees or in freely convertible foreign currency preferably in USD (\$), Euro (€), Yen (¥), GBP (£) wherever possible for correct evaluation during comparison.

8. Format and Signing of Bid

- (i) The Bidder shall submit the bids in two separate envelopes. One envelope shall contain Technical Bid and the other shall contain the Financial/Price Bid.
- (ii) The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialled by the person or persons signing the bid.
- (iii) Any interlineations, erasures or overwriting shall be valid only if the persons or persons signing the bid initial them.

- (iv) The Bidder shall furnish information on commissions or gratuities, if any paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract as per the

bid form (see 'Annexure-D')

9. Submission of Bids

9.1 Sealing and Marking of Bids

- (i) The bidder shall seal the Technical Bid and the Financial/Price Bid in **two separate envelopes** duly marked as "Technical Bid" and "Financial/Price Bid" respectively with the name of firms. Both the envelopes shall then be sealed in one outer (main) envelope.
- (ii) **The inner and outer envelopes shall:**
 - Be addressed to the Purchaser (On behalf of the Director, NII) at the following address:

Section Officer (Stores and Purchase)
National Institute of Immunology
Aruna Asaf Ali Marg
New Delhi-110067 (INDIA)
 - Bear the Equipment Name /Reference No./Last date for submission of Tender/Date of Opening of Tender/Firm's name & address and a statement "Do not open before Time hrs.(IST) on Date." As per the NIT details.
- (iii) If the outer envelope is not sealed and marked as required, the Purchaser (NII) will assume no responsibility for the bid's misplacement or premature opening.
- (iv) Fax or e-mail bids will be rejected.

9.2 Deadline for Submission of Bids

- (i) Bids must be received by the Purchaser (NII) at the address specified under Clause 9.1 (ii) above and not later than the time and date specified in the Invitation for Bids. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser (NII), the Bids will be received up to the appointed time on the next working day.
- (ii) The Purchaser (NII) may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance, in which case all rights and obligations of the Purchaser (NII) and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

9.3 Late Bids

- (i) Any bid received by the Purchaser (NII) after the deadline for submission of bids prescribed by the Purchaser (NII), will be rejected and/or returned to the Bidder.

9.4 Modification and Withdrawal of Bids

- (i) The Bidder may modify or withdraw its bid after the bid's submission; provided that written notice of the modification or withdrawal is received by the Purchaser (NII) prior to the deadline prescribed for the submission of bids.
- (ii) The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance. A withdrawal notice may also be sent by telex or cable or fax or e-mail but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.
- (iii) No bid may be modified subsequent to the deadline for submission of bids.
- (iv) No bid can be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its Bid Security/EMD besides blacklisting them (bidder).

10. OPENING AND EVALUATION OF BIDS

10.1 Opening of Bids by the Purchaser (NII)

- (i) The Purchaser (NII) will open all Technical Bids, in the presence of Bidders' representatives who choose to attend, as per the schedule given in invitation to bids.
- (ii) The Bidders' representatives who are present shall sign the quotation opening sheet evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for the Purchaser (NII) the Bids shall be opened at the appointed time and location on the next working day.

(iii) Clarification of Bids

- To assist in the examination, evaluation and comparison of bids, the Purchaser (NII) may, at its discretion ask the bidder for any clarification(s) of its bid. The request for clarification and the response shall be in writing and no change in the price substance of the bid shall be sought, offered or permitted. However, no post Bid clarifications at the initiative of the Bidder shall be entertained.

10.2 Preliminary examination and evaluation of Technical Bids

The Technical Bids will be opened by NII (i.e. by an authorised 'Committee' of NII) at the first instance and evaluated by it.

- (i) The Purchaser (NII) will examine the bids to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. **Bids from suppliers, with proper Authorization from the manufacturers and from Indian agents with DGS&D Registration Certificate are required in case the items fall under the restricted list of the current EXIM / Foreign policy.**
- (ii) The Purchaser (NII) may waive any minor infirmity, non-conformity, or irregularity in a bid, which does not constitute a material deviation, provided such a waiver, does not prejudice or affect the relative ranking of any Bidder.
- (iii) Prior to the detailed evaluation, the Purchaser (NII) will determine the substantial responsiveness of each bid to the Bid Document. For purposes of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bid Document without material deviations.
- (iv) After downloading, the language of standard clauses etc. mentioned in this 'Bid Document' should not be tampered with/ changed/modified in any manner whatsoever. If any such modification etc. comes to our knowledge at any stage, the bid shall be rejected immediately and EMD shall also be forfeited.
- (v) **Conversion to Single Currency as indicated below:**
 - To facilitate evaluation and comparison of price bids, the Purchaser (NII) will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable to Indian Rupees at the selling exchange rate established by RBI in India and available in the 'Newspapers/Banks website' on the date of opening of Price/Financial Bid.

10.3 Evaluation & Comparison of Financial/Price Bids

- (i) At the second stage, Financial/Price Bids of only the technically acceptable offers (Technically qualified Bids) shall be opened for further evaluations and ranking by a authorised 'Committee' of NII. The Purchase order shall be awarded to the lowest evaluated Bidder, whose bid has been found to be responsive and who is eligible and qualified to perform the contract satisfactorily as per terms & conditions incorporated in NIT /Bidding document.
- (ii) For the bids surviving the 'Technical Evaluation', which have been found to be responsive, the evaluation & comparison shall be made as under:
 - **Indigenous Offers** :The final FOR cost of purchase after all discounts, freight, forwarding, insurance (ware house to ware house), custom clearing charges taxes etc. shall be the basis of evaluation.
 - **Imported Offers** : The CIF/CIP price shall be the basis of evaluation (ware house to ware house basis)
 - **Conditional tenders/discounts etc. shall not be accepted. Rates quoted without attached conditions** (viz. Discounts having linkages to quantity, payment terms etc.) will only be considered for evaluation purpose. Thus conditional discounted rates linked to quantities and prompt/advance payment etc, will be ignored for determining *inter-se* position. The Purchaser (NII),However, reserves the right to use the discounted rate/rates considered workable and appropriate for counter offer to the successful tenderers.

11. Contacting the Purchaser (NII)

Any effort by a Bidder to influence the Purchaser (NII) in its decisions on Bid Evaluation, bid comparison or Contract Award may result in rejection of the Bidder's bid.

12. Purchaser's Right to vary quantities at time of Award

The Purchaser (NII) reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

13. Purchaser's Right to accept any Bid and to Reject any or all Bid

The Purchaser (NII) reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to Award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

14. Notification of Award

- Prior to the expiration of the period of bid validity, the Purchaser (NII) will notify the successful bidder in writing by registered letter or by cable or fax or e-mail that the bid has been accepted by way of a Purchase Order.
- Upon the successful Bidder's furnishing of performance security, the Purchaser (NII) will promptly notify each unsuccessful Bidder and will discharge its Bid Security/EMD.

15. Performance Security

15.1 Within 30 days of the receipt of notification of award/purchase order from the Purchaser (NII) the successful Bidder shall furnish the 'performance security' equivalent to 10% of the cost of equipment, in the form of Bank Guarantee from a nationalized/scheduled bank in INR.

15.2 If the performance security is not furnished within the stipulated time as per 15.1 above, the contract shall be deemed terminated. besides forfeiture of EMD

16. Order Acceptance

The successful bidder should submit acceptance of the Purchase Order immediately but not later than 15 days in any case from the date of issue of the Purchase Order failing which it shall be presumed that the vendor is not interested and his Bid Security/EMD is liable to be forfeited.

Section Officer (Stores and Purchase)

GENERAL TERMS AND CONDITIONS (GTC)

1. Definitions

In this Contract, the following terms shall be interpreted as indicated:

- (i) "The Order" means the Purchase Order placed by the Purchaser (NII) including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (ii) "The Contract Price" means the price payable to the Supplier under the Order for the full and proper performance of its contractual obligations;
- (iii) "The Goods" means all the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Purchaser (NII) under the Contract;
- (iv) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- (v) "GCC" mean the General Conditions of Contract contained in this section.
- (vi) "SCC" means the Special Conditions of Contract.
- (vii) "The Purchaser" (NII) as specified in Special Conditions of Contract.
- (viii) "The Purchaser's country" is "India".
- (ix) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (x) "Day" means calendar day.

2. Application

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Standards

The Goods supplied under this Contract shall conform to the standards mentioned in the 'Technical Specifications', and when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods 'country of origin' and such standards shall be the latest issued by the concerned institution.

4. Use of Contract Documents and Information

The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser (NII) in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

5. Patent Rights

The Supplier shall indemnify the Purchaser (NII) against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

6. Submission of the bids

- (i) All bids complete in every respect must reach this office within the last date and time of receipt of bid. No extension shall be allowed for any reason what so ever. Late tenders, Tenders received without Bid security/Earnest Money, cost of bidding documents, if applicable etc. shall be rejected summarily.
- (ii) Tender documents are available for sale as per the information specified in Invitation for Bids. Interested bidders may purchase the tender documents on payment of the cost there of or download directly from our website, as indicated in invitation for bids. The Purchaser (NII) is not liable for either non-receipt of the tender document or for late receipt of the tender documents.

7. Performance Security

Within 30 days of receipt of the notification of contract award/purchase order, the Supplier shall furnish performance security for the amount specified under point-15.1 of STC.

8. Inspections and Tests

The Purchaser (NII) or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser (NII)

9. Packing

- (i) The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- (ii) The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements and in any subsequent instructions ordered by the Purchaser (NII).
- (iii) **Packing Instructions:** Each package will be marked on three sides with proper paint/indelible ink, the following:
 - Item Nomenclature
 - Order/Contract No.
 - Country of Origin of Goods
 - Supplier's Name and
 - Packing list reference number

10. Delivery and Documents

- (i) **Delivery of the goods including satisfactory installation and commissioning shall be made within a maximum periods of three months from the date of placement of 'purchase order'.**

Within 24 hours of shipment, the supplier shall notify the purchaser (NII) and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/AWB etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser (NII) with a copy to the insurance company:

- 3 Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount;
 - Acknowledgment of receipt of goods from the consignee(s) by the transporter;
 - Insurance Certificate;
 - Manufacturer's/Supplier's warranty certificate;
 - Inspection/Test Certificate/Report issued by the supplier's
 - Certificate of Origin.
 - Two copies of the packing list identifying the contents of each package.
- (ii) The above documents should be received by the Purchaser (NII) three days before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any and all consequent expenses.

11. Progress of Supply

Supplier shall regularly intimate progress of supply, in writing, to the Purchaser (NII) as under:

- Quantity offered for inspection and date;
- Quantity accepted/rejected by inspecting agency and date;
- Quantity dispatched/delivered to consignees and date;
- Quantity where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser (NII) with date;
- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).

12. Right to Use Defective Goods

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser (NII) shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

13. Supplier Integrity

The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

14. Training

- (i) The Supplier is required to train the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.
- (ii) The training shall be initially carried out during installation & commissioning for operating and maintaining the system. After a certain interval the training on application shall have to be imparted by the supplier. The duration of such training need to be finalized with the user of the equipment.
- (iii) In case any supplier is not willing to impart such training, the bid shall be treated as non-responsive.

15. Insurance

- (i) The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.
- (ii) For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. ***However, in case of orders placed on FOB/FCA basis, the purchaser (NII) shall arrange Insurance.***

16. Transportation

Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

17. Spare Parts

- (i) As specified in the SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
 - Such spare parts as the Purchaser (NII) may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract;
- (ii) Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.
- (iii) The incidental services also include.
- (iv) Furnishing of 01 set of detailed operations & maintenance manual.

18. Warranty

- (i) The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination. **The warranty should be comprehensive and on site of purchaser (NII).**
- (ii) The instrument should come along with at least **Two years** of warranty and additional free annual maintenance contract for next **Five years** will be desirable. (Which also covers all the lasers) from the date of satisfactory installation/commissioning of Equipment at purchaser's site (NII). ***Price of***

CMC/AMC after warranty may please be quoted separately.

- (iii) **The instrument should come along with at least 24 Months of warranty and additional free annual maintenance contract for next 60 Months will be desirable from date of acceptance of Material duly satisfactory installed & commissioned.** The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. **The warranty should be comprehensive on site.**
- (iv) **If during the period of warranty any component or spare part is need to be brought from abroad, all associated cost shall be borne by the supplier including the cost of customs duty etc..**
- (v) If a different period of warranty has been specified in the 'Technical Specifications' Chapter then the period mentioned above (i , ii &iii) shall stand modified to that extent

19. Payment

- (i) 90% payment shall be made by the Purchaser (NII) **against letter of credit/via transfer, against the production of unconditional 10% of the order values in the form of Performance Bank Guarantee of an equivalent amount from a nationalized/Scheduled Bank valid for warranty period as specified and on proof of dispatch of shipment. The balance 10% payment shall be released after the satisfactory installation, demonstration and commissioning of Equipment including providing of Training, if offered by bidder.** Alternatively, the supplier may choose to take payment after delivery, installation, demonstration and commissioning **including providing of Training, if offered by bidder.**
- (ii) Agency commission, if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents/via transfer.

20. Sub-contracts

- (i) The Supplier shall notify the Purchaser (NII) in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.
- (ii) Sub-contract shall be only for bought-out items and sub-assemblies.

21. Delays in the Supplier's Performance

- (i) Since time is the essence of the contract, delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser (NII) in the Contract. Otherwise the purchaser (NII) reserves the right to cancel the Purchase order.

21.1 Penalty

- If the Supplier fails to deliver, install and commission satisfactory any or all of the Goods or to perform the Services within the period(s) specified in the Contract (**under point-10 (i) of GTC**), the Purchaser (NII) shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price as penalty i.e. **a sum of equivalent to 0.5% of total order value for per week of delay subject to maximum deduction of 10 % of total order value.**

22. Termination for Default & Forfeiture of EMD

- (i) The Purchaser (NII) may, without prejudice to any other remedy **for breach of contract or not accepting the orders for supply the items at his quoted rates etc.**, by written notice of default sent to the Supplier **terminate the Contract in whole or part and forfeit the entire Earnest Money.**
- (ii) **In the following cases, the purchaser (NII) may terminate the Contract and forfeit the entire Earnest Money :**
 - If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser (NII).
 - If the Supplier fails to perform any other obligation(s) under the Contract.
 - If the Supplier, in the judgment of the Purchaser (NII) has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

(iii) For the purpose of this Clause:

- **“Corrupt practice”** means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- **“Fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;’

23. Taxes and Duties

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser (NII). However, GST in respect of the transaction between the Purchaser (NII) and the Supplier shall be payable extra, if so stipulated in the order.

24. Inspection and Tests : Inspection and tests prior to shipment of Goods and at final acceptance are as follows :

- (i) After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier’s plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer’s test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser (NII) shall be present at the supplier’s premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser (NII) about the site preparation, if any, needed for installation of the goods at the purchaser’s site at the time of submission of order acceptance.
- (ii) The acceptance test will be conducted by the Purchaser (NII), their consultant or other such person nominated by the Purchaser (NII) at its option after the equipment is installed at purchaser’s site in the presence of supplier’s representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser (NII), the successful completion of the test specified.
- (iii) In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser (NII) reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser (NII).
- (iv) Successful conduct and conclusion of the acceptance test for the installed goods and equipment’s shall also be the responsibility and at the cost of the Supplier.

25. Manuals and Drawings

- (i) Before the goods and equipment’s are taken over by the Purchaser (NII), the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser (NII) to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- (ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.
- (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser (NII).

26. Force Majeure

- (i) The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it’s delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure (with documentary evidence).
- (ii) For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser (NII) either in its sovereign or contractual capacity, wars

or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

27. Resolution of Disputes

- (i) The Purchaser (NII) and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- (ii) If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser (NII) and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration.
- (iii) In case of Dispute or difference arising between the Purchaser (NII) and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, NII and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him (Director, NII) willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
- (iv) In the case of a dispute between the purchaser (NII) and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with above provision. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
- (v) The venue of the arbitration shall be the place from where the order is issued.

28. Applicable Law: The place of jurisdiction would be Delhi (INDIA).

29. Notices: For the purpose of all notices, the following shall be the address of the Purchaser (NII) and Supplier.

**(i) Purchaser (NII): On behalf of the Director, NII
Section Officer (Stores and Purchase)
Stores and Purchase Department
National Institute of Immunology.
Aruna Asaf Ali Marg,
New Delhi-110067 INDIA**

(ii) Supplier: (To be filled in by the supplier)
M/s

.....

.....

Seal:-

Place & Date:-

CHECKLIST

Name of Tenderer:

Name of Manufacturer:

SI No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks, if any
1. a.	Have you enclosed EMD of required amount? (With The Technical Bid Envelope)			
b.	Have you enclosed the tender documents fee? (With The Technical Bid Envelope)			
2. a.	Have you enclosed duly filled & signed Tender Form			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
3.	Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC			
4.	Have you submitted manufacturer's authorization certificate?			
5.	Have you submitted prices of goods in the Price Schedule?			
6.	Have you kept validity of 90 days from the Tender Opening date?			
7.	Have you furnished? ▪ Copies of IT Returns for the last two financial years ▪ Proof of GST No. , ▪ Proof of PAN Card in respect of Firm or Proprietor as the case may be.			
8.	Have you intimated the name and full address of your Banker (s) along with your Bank Account Number (Principal company and Local Distributor)			
9.	Have you enclosed other all declarations, documents required to be submitted as per Tender in including Annexure- 'A, B, C, D, E, F &G duly compliance?			

SI No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks, if any
10.	Have you enclosed other all declarations, documents required to be submitted as per Tender			
11.	In Two Bid system, Single combined offer has not been submitted OR 'Price Bid' has not been enclosed in the Envelope marked 'Technical Bid'			

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable (NA), it may be filled up as NA.
2. It is the responsibility of tenderer to go through the tender document to ensure furnishing all required documents in addition to above, if any.

(Signature with date)

(Full name, designation & address of the person duly authorised sign on behalf of the Tenderer)
For and on behalf of

(Name, address and stamp of the tendering firm)

**BANK DETAILS REGARDING THE TRANSFER OF PAYMENT
(PRINCIPALCOMPANY AND LOCAL DISTRIBUTOR)**

To
The Director,
National Institute of Immunology,
ArunaAsaf Ali Marg, New Delhi-110067

Dear Sir:

We hereby inform you that the Bank Details for the transfer of payment for the supply of materials to NII, New Delhi are as follows:

1	Name of the firm and address with phone/fax no	
2	Contact person of the firm	
3	Email ID of Concerned person	
4	Particulars of Bank Account of Firm	
5	Name of Bank and branch	
6	Bank Address and contract phone no	
7	9 Digit Code Number of the Bank and Branch	
8	IFSC Code of the Bank Branch (application for the bank branches participating RTGS system of RBI for fund transfer)	
9	Type of Bank Account (Saving Bank, Current Account or Cash Credit Account)	
10	Account Number (as appearing on the cheque book please ensure to mention the complete account No. as allotted by the bank)	

(Name, address and stamp of the tendering firm)

Note: This above details should be on the letterhead of the supplier and should be signed by a person competent and having the power of attorney to bind the same.

(NOTARIZED AFFIDAVIT)

Each Tenderer/Bidder has to submit an affidavit, in a e-stamp paper of Rs. 50/- (duly notarized) to the effect that the he/she/they undertake that:

- (i) The documents submitted by the Bidder/Tenderer are genuine and undisputable and in the event of its coming to notice at later date that the documents are not genuine, Bidder/Tenderer shall be liable for criminal action and such compensation payable to NII as may be decided by the Institute.
- (ii) The Bidder/Tenderer will not withdraw his/her/their tender after opening of Technical Bid and if done so; his/her/their EMD may be forfeited.
- (iii) The Bidder has not been blacklisted by any of the Government Department/ Government Institutions etc. during last three years.
- (iv) There is no complaint against the Bidder/Tenderer such as “*delayed supply, non-supply, non-submission of performance bank guarantee and refusal of supply etc.*” and for which ‘no punishment of any type’ has been given/awarded by any of the Govt. Deptts./Govt. Institutions etc.

Signature of the Bidder/Tenderer

On behalf of M/s.

Seal:

Place & Date

FALL CLAUSE NOTICE CERTIFICATE

This is to certify that we have offered the maximum possible discount to you in our Quotation No. _____ dated _____ .

The prices charged for the stores supplied under limited tender should under no event be higher than lowest prices at which the party sells the items of identical description to any other Govt. Organization/PSU's/Autonomous bodies/Pvt. Organizations during the period of contract failing which the “FALL CLAUSE” will be applicable.

In case, if the price charged by our firm is more, NII will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier.

Signature of the Bidder/Tenderer

On behalf of M/s.

Seal:

Place & Date

BID FORM

To,

**The Director,
National Institute of Immunology
Aruna Asaf Ali Marg
New Delhi-110067 INDIA**

Sir,

Having examined the bidding document the receipt of which is hereby duly acknowledged, we the undersigned offer to supply and deliver _____(Description of Goods) in conformity with the said bidding documents for a sum or such other sums as may be ascertained from the bid.

We undertake that if our bid is accepted to deliver the goods in accordance with the delivery schedule specified.

If our bid is accepted we will obtain the guarantee of the bank as specified in STC for the due performance of the contract, in the form prescribed by your good self.

We agree to abide by this bid for requisite period of time after the date fixed for bid opening as per the instructions to the bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

Commissioning and gratuities, if any, paid or to be paid by us to the agents relating to this bid, and to contract executions if we are awarded the contract, are listed below:

Name and address of agent	Amount in Rupees	Purpose of Commission
(if none, state “none”)		

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____ 20_____

Signature _____

In the capacity of _____

Duly authorized to sign the bid for and on behalf of _____

Seal:-

Place & Date:-

(Please do not quote price in the copy attached to Technical Bid)

MANUFACTURERS' AUTHORIZATION FORM

No.

Dated _____

**The Director,
National Institute of Immunology
Aruna Asaf Ali Marg
New Delhi-110067
INDIA**

Dear Sir:

We who are established and reputed manufacturers of the equipment having factories at (*address of factory*) do hereby authorize M/s (*Name and address of Agent*) to submit a bid, negotiate and receive the order from you against your tender enquiry.

No company or firm or individual other than M/s _____ is authorized to bid, and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per Clause 18 of the General Terms and Conditions for the goods and services offered by the above firm.

Yours faithfully,

(Name)

(Name of manufacturers)

Seal:

Note: This letter of authority should be on the **Letterhead of the Manufacturer** and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the Bidder in its Technical bid.

‘TECHNICAL COMPLIANCE STATEMENT FORM’- 1

An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

ITEM NAME			
S.No.	Tender Specifications	Bidder's Specifications	Remarks/Deviation If any

(Technical literature/brochures/manuals should be attached along with this format)

Please note:

1. Compliance/Deviation statement comparing the specifications of the quoted model to the required specifications. This statement should also give the page number(s) of the technical literature where the relevant specification is mentioned.
2. Bids must have supporting documents (technical literature or copies of relevant pages from the service manual or factory test data) for all the points noted above, failure regarding which may result in rejection of bid.

QUALIFICATION REQUIREMENTS

- 1 The Bidder should be a manufacturer or their dealer specifically authorised by the manufacturer to quote on their behalf for this tender as per manufacturer authorisation form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment’s must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening in India and is engaged in R&D activities.
- 2 The Indian Agents of foreign manufacturers/ suppliers quoting directly on behalf of their principals for items appearing in the restricted list of the current Foreign Trade Policy must be registered with DGS&D. One Indian Agent cannot represent two different foreign principals for the same item in one tender.
- 3 The bidder should have executed at least one similar order successfully during the preceding three financial years. The details should be incorporated in the performance statement form along with documentary evidence.
- 4 Details of service support facilities that would be provided after the warranty period should be submitted in the Service Support Details Form.
- 5 That, in the case of a Bidder not doing business in India, the Bidder is/or will be (if successful) represented by an Agent in India who shall be equipped and able to carry out the Supplier’s maintenance, repairs and spare parts, stocking obligations prescribed by the conditions of the contract. The bidder or his agent must have an office in Delhi.
- 6 That the Bidder will assume total responsibility for the fault-free operation of equipment, application software, if any, and maintenance during the warranty period and provide necessary maintenance services for five years after end of warranty period if required.
- 7 Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.
- 8 Other things being equal, preference shall be given to firms who or his principal has supplied and installed similar system at any CSIR/ICAR/ICMR/DAE/DRDO/DST/DBT/other Govt. or autonomous research Labs in India.
- 9 ***Any additional bid participation criteria / eligibility conditions etc. mentioned in the Technical Specifications sheet will also form part of the Qualification Requirements along with those mentioned in this chapter.***

(Name, address and stamp of the tendering firm)

TECHNICAL SPECIFICATION FOR REAL TIME PCR SYSTEM

1. The system should be an automated and integrated system for both real-time PCR and post-PCR (end-point) analysis with following features:

Hardware :

2. The system should be 96-well block system with Peltier based heating & cooling.
3. The system should have temperature range suitable to facilitate all qPCR applications.
4. The excitation source should be LED/Laser
5. Data acquisition from all wells should be carried out simultaneously
6. The system should be able to handle multiplexing operations in the same reaction tube accurately. The system should have at least 4 filters and fixed (scanning free) optics, ensuring robust data acquisition in a multiplexed analysis (detection of upto four targets in the same sample).
7. The excitation and emission characteristics of the light sources, filters used for excitation, filters used for emission detection, absorption and fluorescence emission characteristics of the currently available fluorescence dyes must be made available that help in determining the extent of overlaps and hence degree of accuracy. Documented proof of such capabilities must be provided. Should have the ability to detect FAM, SYBR green, VIC, JOE, TAMRA, Rox, TexasRed and other dyes routinely used.
8. The system should have peak block ramp rate exceeding 4°C/second.
9. The system should have gradient function with large gradient operational range and minimum of three temperature zones for running multiple experiments simultaneously.
10. The sensitivity of the system should be high. System should detect differences in target quantity as small as 1.5-fold in single plex reactions
11. The dynamic linear range of detection should be at least 10 orders of magnitude.
12. System should support reaction volume minimum of 10 – 30 µL in 0.2ml tubes.
13. The system should be a standalone system i.e. it should have advance Touch Screen LCD feature to avoid dependency on computer for operation with up to 10GB onboard memory of at least 1000 runs with USB.
14. Fast-PCR in less than 40 minutes should be an integral feature of the system.

Software :

15. The instrument should have software that can analyze multiple perspectives in the Multiple Plots view, with side by side views of all data aspects including the amplification plots, standard curve, multicomponent data plots, and raw data. The system should give heat map of the amplification and analyzed data. Software should have PCR efficiency factor correction for gene quantification.
16. The system should have software to support applications including absolute quantitation, Relative quantitation, multiplex-PCR, allelic discrimination (SNP), melt curve analysis as well as pathogen detection, plus/minus assay using internal positive control and High Resolution Melting analysis for gene & mutation screening.

Supporting Chemistries and Applications :

17. The system should be completely open system to support all the Real Time PCR chemistry like TaqMan, SYBR Green, Simple & Hydrolysis Probes, Molecular Beacons etc.
18. The system should be capable of detecting even 1 copy in a single reaction tube without passive reference dye. However normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye.
19. The system should be open system with flexibility to use micro well plates, individual tubes and 8-

tube strips.

Terms & Conditions:

20. Specific software must be provided that is useful for primer designing and designing the probes used for analysis.
21. The instrument should come along with at least 2 years of warranty. Additional free annual maintenance contract for next five years will be desirable.
22. Should be supported with remote services, cloud connectivity online monitoring, and external barcode using USB etc.
23. Instrument should be supplied with 0.2mlx8-tube strips (about 300) with corresponding optical caps and Power SYBR green PCR mix (1000 reactions),
24. Should be provided with 2 KVA UPS with 30mins backup, branded laptop with latest configuration for data analysis with window based software package and good quality color laser printer.
25. The quoted system must have full license for PCR process and proof should be attached of several installations across India.
26. Firm MUST provide a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the Tendered for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the Tender.

Signature of the Bidder/Tenderer

On behalf of M/s.

Seal:

Place & Date