

ICMR - NATIONAL INSTITUTE OF CANCER PREVENTION AND RESEARCH
Plot No. I-7 SECTOR-39 NOIDA – 201301

NICPR/Store/Equip./2018-19

Dated: 12 Nov. 2018

INVITATION TO TENDER
SUPPLY, INSTALLATION & COMMISSIONING OF
SCIENTIFIC LABORATORY EQUIPMENTS

Dear Sir,

1. The Director National Institute of Cancer Prevention And Research (ICMR), I-7, Sec-39, Noida-201301, invites Sealed Tenders for the Purchase of Equipments **(as per “Schedule of Requirement” enclosed at Annexure-I)**. The bidders may go through the Terms and Conditions carefully. In case any bidder fails to follow any or more of these conditions, the offer shall be summarily rejected. **The Specifications of the Equipments are attached at Annexure-II.**
2. The quantity of Equipments is probable and subject to change without any further notice/reason. Notwithstanding the estimate of probable numbers, the Director National Institute of Cancer Prevention And Research, Noida reserves the right to reject any or all the tenders or cancel the Tender invitation in toto, without assigning any reason.

Two Bids System

3. Tender for **Each Equipment** as per Annexure-I is to be **submitted separately as per “Two Bids” system.** Technical Bids and Price Bids (as per Schedule of Requirement at Annexure-I) should be made/sealed separately and put together in an Envelope which should be clearly marked as **“Tender for (name of Equipment)” & Date of Opening.** “Technical Bid(s) should accompany EMD(s) and Line-wise confirmation of the proposed Specifications on Vendor’s Letter Head. Technical Bids and Price Bids will be accepted only from the Manufacturers of repute, or, their Authorized Indian Representatives, for Supply, Installation & Commissioning.
4. The Tenderer should clearly mention whether they are the Manufacturer or authorized Dealer/agent of the Manufacturers. In the case of dealer/distributor/agent, latest letter of authorization from the Manufacturer should be submitted along with the Technical Bid.
5. A copy of Specification compliance sheet on vendor letter Head and available illustrated literature/Catalogue in support of above compliance statement should accompany the Technical Bid.
6. In case of imported Equipment(s) where prices are quoted in foreign currency, F.O.B. and C.I.F. both costs and Ports of Loading & Landing are to be clearly mentioned, apart from Total free of cost delivery at NICPR, Noida as per Note-2 of enclosed Annexure-I.

7. **Last Date of Submission** – Last date of Receipt of Sealed Tender Documents at NICPR, Noida is **12-12-2018** by **4:00 P.M.** by Post or by Hand (at NICPR Reception). Tenders by E-mail/Fax will not be accepted. “Late Tenders”, for any reason whatsoever, will not be entertained/ taken into account, without assigning any reason thereof.
8. **Date & Time of Opening** – Technical Bids will be opened by the Purchase Committee on **14-12-2018** at **11.00 A.M.**, at 2nd Floor, Board Room. The Tenderers or their authorized representatives are requested to be present during opening of Technical Bids. Price Bids of only those Tenderers whose Technical Bids are found suitable subsequently by the Technical Screening Committee of NICPR, Noida, will be opened later on. Date and Time of the same will be intimated to the applicable Tenderers in advance by E-mail, so as to enable them to be present at the Time of opening of their Price Bids.
9. **Acceptance of Offer/Tender** – Price Bids of only technically suitable Offers/Vendors, as mentioned above, will be opened. For calculation of Lowest (L-1) responsive vendor, the total value quoted for **Free of Cost Delivery at NICPR, Noida** will be taken into consideration, In case of Tie at L – 1 rates, **further negotiations** may be made, at the discretion of the Director, NICPR, Noida, or **Shortest Delivery period** or any other criteria decided by the Director, NICPR, Noida may be used to decided the L – 1. Decision of the Director, NICPR, Noida in this regard will be final.
10. Total Order value for each Equipment will be calculated separately/individually. Hence Purchase Order on a vendor may be for any one Equipment only or for more. The vendor will not have any right to decline acceptance of such Purchase Order, else EMD(s) will be forfeited.
11. The Vendor may **Quote for any one or more number or all the Equipments** mentioned at Annexure - 1 and submit EMD(s) accordingly.
12. Each tender must contain the Total value not only in figures but also in words. In case of any Clerical/Typing error, value written in “words” will only be considered for assessing the L-1 Bidder and subsequent process, though the Director NICPR reserves the right **not to accept** any Tender only on the L-1 (lowest) criteria.
13. Fax/E-mail/Conditional tender will not be accepted.
14. Other Terms & Condition of Supply are attached at Annexure-III.

Stores-In-Charge

- Encl:** (a) Schedule of Requirement at Annexure-I.
(b) Specifications at Annexure-II.
(c) Other Terms and Conditions of Supply at Annexure-III.

SCHEDULE OF REQUIREMENT**1. Name of Purchaser:** NICPR, Noida**2. Funds:** Institute / Project**3. The Vendor:** Whether Manufacturer/Auth. Dealer/Distributor/ Retailer etc.
(Attach Authorization Copy duly authenticated by self)

S. No.	Name of Equipment	Qty.	EMD Amount Rs.	Rate	Total Value	GST if any	Any Other Taxes/Charges (Please Specify)	Total F.O.R NICPR Cost
1.	Fully Automated Liquid Based Cytology Processor	1	2.00 Lakhs					
2.	Water Purification System	1	15,000/-					
3.	-20°C Deep Freezer	4	15,000/-					
4.	Water Bath Shaker	1	15,000/-					
5.	CO ₂ Incubator	1	15,000/-					
6.	Real Time PCR	1	40,000/-					
7.	-80°C Deep Freezer	1	30,000/-					
8.	Cold Centrifuge	1	15,000/-					
9.	Inverted Fluorescence Microscope	1	30,000/-					
10.	Cell Counter	1	10,000/-					
11.	Multimode Microplate Reader (++) (on Buy Back Basis)	1	40,000/-					
12.	Inverted Phase Contrast Microscope	1	10,000/-					
13.	Real Time PCR (Project)	1	30,000/-					

Date:**Place:****Name & Signature of Authorized Signatory****NOTE: -**

- Proposed minimum required Specifications of the above mentioned Equipments are attached at Annexure – II.
- The Total Payable Cost is to be quoted for **Free of Cost Delivery at NICPR, Noida**. Vendors quoting F.O.B. / C.I.F. / C.I.P. rates need to separately include additional costs for free delivery to NICPR, Noida. Tenders not mentioning total cost for free delivery to NICPR, Noida will be summarily rejected.
- Validity of Quotation is to be at least 150 Days from the Date of Tender opening.
- EMD for the Equipment quoted for is to be attached with the Technical Bid, as per Para 8 of Annexure-III enclosed.
- Price Bid is to be made on the Vendor's Letter Head, duly stamped and signed, as per above format.
- (++) Vendor(s) may inspect the Buy back equipment held at NICPR, Noida and satisfy themselves before submitting their offer/Tender. Buy back is a **must** condition and Tenders **without** buy back offer **will be rejected**.

Stores-In-Charge

ICMR - NATIONAL INSTITUTE OF CANCER PREVENTION AND RESEARCH

MINIMUM PROPOSED SPECIFICATIONS OF EQUIPMENTS

Detailed Specification/Configuration of the Equipment

1. Fully Automated Liquid Based Cytology Processor

- Should do liquid based PAP test by automated preparation of Liquid based cytology slide.
- System should employ a fluid transport medium to preserve cells, eliminate debris and distribute a representative portion of cells on slide in a uniform even layer.
- Slide should be clear, easy to read and free of obscuring blood, mucus and non diagnostic debris.
- System should be able to process both gynecological as well as non-gynecological cytological samples
- System should process samples in batches with walk-away automation
- The prepared slide should have a uniform thin layer of cells located in a fixed area on the slide for efficient analysis and shorter screening time per slide.
- The system should be able to prepare multiple slides per vial so that the residual sample left after pap slide preparation can be used for ancillary tests.
- The system should have proven statistically significant decrease in unsatisfactory cases.
- The system should have proven increase in detection of significant lesions over conventional Pap smears
- The system should be US-FDA approved for use in preparation of liquid based cytology slides
- Sample collection Vials and Reagents for 5000 samples should be provided free of cost with the equipment at the time of installation.
- A detailed training/ operating brochure should be supplied while installing the machine.
- List of all institutional/ organizational supply during last Five Years, with performance certificates should be provided with technical bid.
- The equipment should be supplied with a branded 5KVA online UPS with batteries for 60 Minutes back up.
- Any service, either supporting or repair, should be given without any hassle by the supplier.

- The vendor would be responsible to back up any trouble shooting with a maximum response time of 24 hours.
- The vendor is to provide Five Years Comprehensive warrantee from the date of installation plus AMC charges for the next Five Years.

-Penalty clause: Suitable penalty clause will be applied in case the instrument remains non-functioning for more than 7 days while under Warranty / Annual Maintenance Contract, at a rate of 0.5% of machine cost / day. The machine has to be replaced if cannot be repaired within 2 months of fault. In an event of the equipment remaining nonfunctional for more than 3 days, the vendor should provide a standby equipment of similar capacity till such time that the original equipment is repaired to the satisfaction of the user.

2. Water Purification System

- i) A two stage System capable of producing Pure (Type II) and Ultra Pure (Type I) Water with Feed water acceptance of upto 2000micro Siemens conductivity , Fouling Index (SDI) < 12, Total Chlorine < 3 ppm and TOC <2000 ppb.
- ii) PREFILTER * prefiltration system to remove suspended matter from Tap water * 5 micron and 1 micron wrapped type depth filter
- iii) Stage I * Inbuilt Pretreatment cartridge with anti scaling compound, Activated carbon and 0.5u filter, Also should contain RFID tag for traceability.
- iv) High flux Thin film composite polyamide RO membrane with 94- 99% rejection
- v) Recovery loop with capillary tube and diaphragm valve
- vi) Conductivity cells before and after RO would provide the efficiency of the membrane in rejecting the contaminants as well as the permeate water quality.
- vii) Mixed bed electro deionization module with auto regeneration by a weak electric current, eliminating the need for chemical regeneration or replacement of DI resin cartridges.
- viii) EDI (ElectroDeIonisation) module that should not require softening pre-treatment.
- ix) EDI module should contain active carbon beads at cathode to prevent scaling and to avoid usage of softner.
- x) Based on system performance the display should change color to intimate the users.
- xi) RESORVIOR Size of the reservoir should be 50 L Sensor rod float switch, programmed to have high and low level cutoff based on water level in the tank Type I water purification system .
- xii) STAGE II *Type II water should pass through feed water specific Dual cartridge for removal of trace contaminants and also should possess RFID tag.
- xiii) Low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm).
- xiv) To prevent deterioration of water quality during periods of non-use, the ultrapure water system will be able to recirculate water to maintain high water quality.
- xv) Water production unit that can be placed either on the bench , under the bench or on the wall with Multi colour monitor displaying : resistivity, level of water in reservior, volume dispensed and other alarms, printing etc

Pure (Type II) water:

- xvi) Resistivity.....10- 15 Mega Ohms @ 25 deg C
- xvii) TOC (ppb)< 30
- xviii) Flow Rate (L/hr).....3
- xix) Water Recovery.....upto 50%
- xx) Silica Rejection.....99.9%

UltraPure (Type I) water:

- Ultrapure Water (Type 1) Flow Rate (L/min).....0.05 to 1(Programmable flow rate)
- Ultrapure Water Resistivity (MΩ·cm at 25°C).....18.2
- Microorganisms (cfu/mL).....<0.1
- Particulates < 0.22 µm (/ mL).....< 1
- Pyrogen Levels (EU/mL)<0.001
- RNase Level (ng/mL)< 0.01
- DNase Level (pg/µL)< 4
- TOC (ppb)<5

- xxi) It should be supplied with 5 years comprehensive warranty.

3. -20°C Deep Freezer

Detailed specification / configuration of the equipment :-

- i) A CFC free vertical type with double door -20°C Deep Freezer of capacity 330 – 350 litre.
- ii) Should have four shelves in upper compartment and lower compartment with 3 - 4 pull out drawers.
- iii) Temperature indicator should be in built with alarm system.
- iv) It should be supplied with appropriate voltage stabilizer.
- v) Should have a polymethene foam insulator.
- vi) Warranty should be five years.

4. Water Bath Shaker

Detailed specification / configuration of the equipment

- i) Waterbath with lid, shaking platform, working range from 25°C to upto 99°C and filling volume approximately 20 litres.
- ii) Should have a multi-display (LED).
- iii) Should have Temperature Stability of ± 0.2°C and have electronic timer and adjustable shaking frequency 20-200 rpm.
- iv) Should work on 220V/ 50 Hz power.
- v) It should be supplied with 5 years comprehensive warranty.

5. CO2 Incubator

Detailed specification / configuration of the equipment

- i) Microprocessor controlled 170 – 220 Liters air jacketed CO₂ incubator with high temperature decontamination facility @ 120°C having temperature control from 4°C above ambient to 50°C with control accuracy $\pm 0.1^\circ\text{C}$.
- ii) It should be six-sided direct heating, gentle convection circulation to provide stable temperature control, excellent uniformity and rapid recovery with no over shoot.
- iii) It should be CO₂ control range from 0.2 to 20% with control accuracy and uniformity of $\pm 0.1\%$ and should have rapid recovery of at least 0.7% per minutes.
- iv) It should be HEPA /ULPA Filter System. It should have Infra-red (IR) CO₂ sensor with programmable auto-zero function provide superior accuracy & stability.
- v) It should be with minimum 4 adjustable height shelves & humidity reservoir (removable) to achieve at least 95% RH. 100% Stainless Steel Coved Interior Chamber.
- vi) 95°C Humidified Decontamination Cycle Features, 95°C Humidified Decontamination Cycle Eradicates Contaminating Agents, Chamber Design Allows for Shorter Heat Up and Cool Down Cycles; Complete Cycle Takes 14 Hours to Run.
- vii) CO₂ Sample Port, Adjustable Leg Levelers. It should be ISO 9001 & CE Certification.
- viii) CO₂ cylinder of 48 kg capacity with two-stage CO₂ gas regulator and output and input gauges to indicate cylinder pressure and pressure of the outgoing CO₂.
- ix) It should be supplied with 5 years comprehensive warranty.

6. Real Time PCR

- i) Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates.
- ii) Should be complete touch screen and intuitive interface. .
- iii) The base thermal cycler should be able to be used for standard PCR
- iv) Gradient capacity in Real-time with Operational range 30–100 °C and Programmable span 1–24 °C
- v) Detection of FIVE different fluorescent reporters in the same tube.
- vi) Six excitation and six emission channels each filter should correspond to one dye that ensures smooth differentiation of even dyes having high degree of spectral overlap.
- vii) Should be capable of Detecting Cy5, FAM/Sybr Green, VIC/JOE, TAMRA/Cy3, Texas Red, Quasar705, TET, LC RED640, LC Red705
- viii) Maximum Ramping speed : 5 °C per sec
- ix) Peltier Cooling & Heating for uniform temp control
- x) Excitation –Emission range: 450- 730nm
- xi) No internal reference dye should be required. True 5 Color Multiplexing with use of 5 different fluorophores without the need of addition of any internal reference dye,
- xii) LED excitation source with Photodiode detector
- xiii) Dynamic range of 10 orders.
- xiv) Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
- xv) Temperature range 0– 100 °C with accuracy of ± 0.2 °C and uniformity of ± 0.4 °C within 10 sec of arrival at 90 °C
- xvi) Minimum sample vol : 10 μ l
- xvii) Should detect ≤ 10 fmol of fluorescein
- xviii) Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds
- xix) Automatic allelic discrimination by end point fluorescence or threshold cycle.
- xx) Gene expression analysis by relative quantity (ΔC_t) or normalized expression ($\Delta\Delta C_t$).
- xxi) End point analysis for upto 5 fluorophores
- xxii) Should have mode for Melt curve analysis
- xxiii) Comparison of upto 5000 Ct values from different data files should be possible
- xxiv) Software should have express load feature which allows entry of data after experiment.
- xxv) Statistical analysis of data — t-tests and one-way ANOVA
- xxvi) Machine should be bear high resolution melting curve analysis and capabilities.
- xxvii) High-resolution graphing and data visualization tools —data can be viewed in multiple formats including bar charts, box-and-whisker plots, cluster grams, and volcano plots, that can be editable and annotated and exported at any resolution
- xxviii) Possibility of Designing complex experiments like setting up plate with both technical replicates and biological groups, and view groupings and replicates easily with a color-coded plate layout
- xxix) Reference gene selection tools — view gene stability to quickly determine the most stable reference genes for the assays
- xxx) Multi-plate study analysis — group multiple runs together to analyze all of our data from multi-plate studies together at once
- xxxi) It should be i5 processor desktop with 8 GB RAM and 1 TB HDD.
- xxxii) It should provide 2 KVA UPS with back up of 30 minutes.
- xxxiii) It should be supplied with 5 years comprehensive warranty.

7. - 80°C Deep Freezer

- i) Should have Temperature range of -50°C to -86°C (1°C increment)
- ii) Capacity: Atleast 519 Liters
- iii) Should have Platinum (Pt100) temperature sensor
- iv) Insulation: Vacuum Insulation Panel (VIP) with wall thickness ≤ 7 cm
- v) Should be CFC & HCFC Free
- vi) Should have Cascade cooling system
- vii) Should have self-diagnostic function
- viii) Should monitor ambient & system conditions continuously & notify of abnormalities before problem happens
- ix) Control panel should be at eye level with digital display
- x) Should have Microcomputer temperature controller with digital design
- xi) Should have protection from accidental setting of control panel
- xii) Should have Audible & visual alarms for: Hi/Lo Temperature, door open, microprocessor controlled filter clog check, power failure, remote alarm, sensor abnormality & part replacement notification
- xiii) Should have 4 stainless steel shelves
- xiv) Should have two independent, insulated & removable inner doors (HCFC Free) to prevent cold air leakage.
- xv) Should have the option of adding inner doors for each of the 4 shelves
- xvi) Should have an outer door latch & an outer door lock
- xvii) Should have 3 access ports
- xviii) Exterior dimension : 770 x 875 x 1990 mm
- xix) Interior dimension: 630 x 600 x 1380 mm
- xx) Should be FDA certified, ISO 9001 & 14001 compliant
- xxi) It should be supplied with 5 years comprehensive warranty.

8. Cold Centrifuge

- i) Max speed: more than 17,800 rpm and 30,200 g.
- ii) Temperature range: -10°C to 40°C
- iii) Microprocessor controlled system with direct brushless induction drive.
- iv) The centrifuge must offer swinging bucket, fixed angle and microplate rotors to meet current and future sample processing needs of the lab.
- v) Rotor shall be installed and removed with no tools in less than 5 seconds.
- vi) The buckets and rotor sealing lids must be certified for bio-containment by a 3rd party lab of worldwide recognition.
- vii) Bucket lids must operate in a safe manner without spring clips or metal components.
- viii) The centrifuge must be capable of running up to 24 x 5ml or 7ml blood collection tubes and 16 x 10ml blood collection tubes in certified sealed conditions.
- ix) The centrifuge must be capable of running up to 8 x 50ml or 15 ml disposable conical tubes.
- x) The centrifuge must be capable of running up to 30 spin columns in certified sealed angle rotor.
- xi) The centrifuge must be capable of running at least 6 x 50 ml or 15ml conical tubes in bio-containment certified angle rotor.
- xii) The centrifuge must have a swing-out rotor capable of spinning samples above 16,000 g.
- xiii) The centrifuge must have a low profile (not to exceed 12.2"/31cm) for easy access by end-user
- xiv) The centrifuge must have a minimum of 3 direct program buttons, plus 96 additional programs accessible via folder, all with alphanumeric program naming
- xv) It should be supplied with 5 years comprehensive warranty.

Rotor/Adapters Required:

1. Fixed angle rotor for min 24 x 1.5/2ml with Max speed: 17800 rpm and 30,200g with adapters of 0.2ml & 0.5 ml
2. Should be providing 5, 15 and 50 ml rotor.

9. Inverted Fluorescence Microscope

- i) Microscope stand with quadruple revolving nosepiece with LED transmitted light, true Koehler illumination for bright field and phase contrast microscopy. Optical system must be infinity corrected for maximum S/N ratio and best optical performance.
- ii) Observation Tube: Trinocular observation tube with Interpupillary distance adjustment (F.N.22). It should have a trinocular port to attach camera. The eyepiece tube should have two eyepoints high and low for different height users.
- iii) Mechanical Stage: Mechanical Stage with flexible right hand low drive control along with glass slide holder and plate holders. Stage movement should have X=110mm, Y=74mm.
- iv) Light Source: LED Illuminator with life time of more than 20000 Hours. Condenser : Long Working Distance Condenser with BF/Ph, N.A. 0.3 and W.D. 72 mm or better,, Phase slider for phase contrast application with single position for 4X-40X and one position for 2X Objective.
- v) Objectives : Bright field Plan achromatic 4X, Bright field Plan achromatic Phase Objectives 10x (N.A 0.25), and Long Working Distance Plan Semi- Apochromatic Phase Objective 20X & Long Working Distance Plan Semi- Apochromatic Phase Objective 40X
- vi) Eyepieces : Wide-field paired eyepieces 10X (F. N. 22) or better.

Fluorescence attachment :FLUORESCENCE ILLUMINATOR:

- vii) Reflected light fluorescence illuminator equipped with field stop, minimum 3-position fluorescence slider with Blue excitation filter set, Green excitation filter set and UV filter set for FITC, TRITC and DAPI fluorescence Dyes respectively.
- viii) Fluorescence Light Source: Lamp House for 100W Mercury burner with power supply for Fluorescence application or better. A separate attachment to blocks out room light / stray light to enhance the contrast of fluorescence, and enable clear fluorescence observation even under bright conditions.

PHOTOGRAPHY ATTACHMENT & IMAGE ANALYSIS SOFTWARE:

PHOTOGRAPHY ATTACHMENT:

- ix) 2.3 mega pixel or better Color CMOS camera suitable for Brightfield/Phase Contrast & Fluorescence Imaging. Sensor size:1/ 1.9"; Pixel size: 3.75 um x 3.75um. High frame rate of 38 fps or better at 1920 x 1200. Binning: 1x1, 2x2.
- x) **IMAGE ANALYSIS SOFTWARE:** Should act as an interface between the digital camera and the computer system. It should have the following features
 - Acquisition & device control
 - Filters for Image enhancement
 - Background & dark field correction
 - Manual Time lapse acquisition

- Manual object counting
- Region & Line measurements
- Auto calibrate for micrometer
- Image annotation
- Filters for image enhancement
- Report & share
- Multiple undo/redo options
- Extended Depth of Focus
- Pseudo color.
- Gamma Correction
- Dye list for most commonly usable dyes.
- Live Histogram
- Filters for image enhancements
- Measurements for line, line profile, measurements on live images, auto calibrate, interactive measurements data tables, classify line and tag measurements.

Computer Workstation:

- x) Branded computer with i5 intel processor or better, 4 GB RAM, 1 GB Graphic Card, Preloaded Antivirus software, DVD Writer, Original Windows 7 Professional, 500 GB HDD, 19" TFT Monitor or better, Keyboard & Mouse.
- xi) It should be supplied with 5 years comprehensive warranty.

10. Cell Counter

- i) Counting time should be less than 20 sec
- ii) Image resolution should be not less than 50MP
- iii) Image type should be TIF/annotated TIF
- iv) should able to calculate live and dead cells.
- v) cell single dimension to observation should be 3µm to 60 µm
- vi) Stain compatible tryphan blue.
- vii) Output should be able to give as histogram images, counting etc in a PDF or other accepted documents.
- viii) USB for data import.
- ix) Warranty should be five years.

11. Multimode Microplate Reader

Detailed specification / configuration of the equipment :-

The equipment should be suitable for Nuclei acids, Protein quantification and for ELISA reading purpose.

1. The instrument should possess following features:
 - Absorbance –Monochromator -UV and visible(230nm to 999nm range)
 - Fluorescence (both top & bottom)
 - Luminescence (Dual luciferase)
2. It should support plate formats (6 well to 384 well plates) and cuvette adapter.
3. The instrument shall harbor temperature control system (+4C to 42°C)
Should be suited for both linear and orbital plate shaking
4. Shall come with a low volume plate to allow parallel quantification of a minimum of 16 samples
5. Should be able to use limited volume of sample i.e 2ul of sample for DNA/RNA /protein quantification.
6. Read method: should bear end point, kinetic, well area scanning and spectral scanning
7. Shall be equipped with a personal computer, related softwares for data analysis, free software updates, CD/DVD writer, multiple USB ports and UPS
8. Light Source: UV Xenon flash lamp
9. Wavelength range : Monochromator for absorbance, Should be able to perform multistep scans
10. Power consumption range: 100-300VAc
11. It should be bearing CE Certified standards
12. Pathlength Correction: Dimensions: 12”W x 12.5”D x 7.7”H (30.5 x 31.7 x 19.5cm) or suitable.

13. PC Should be from good Manufacturing Company (HP/Dell/acer/Lenova), Monitor should be 17 inch, Processor i5core Intel, 1TB HDD, 8 GB RAM, DVD writer, Mouse, Keyboard, Windows10 & 1 KVA APC UPS; Windows 10 office operating system and preloaded with antivirus, with multiple USBs for data transfer. It should be loaded with appropriate image analysis software for ELISA, Nucleic Acid, Protein Quantitation and Luminescence assays and freely updatable whenever software updates available.
14. Multimode Plate Reader with all essential accessories along with computer should be provided with comprehensive warranty for 5 years, and AMC rates for next 05 years atleast.
15. The offer has to be of **buy back** quotation for the Microplate reader available in Institute.

Details of the Buy Back Equipment Held at NICPR, Noida
(May be inspected / verified by the vendor before Quoting)

- | | | |
|----------------------|---|---|
| 1. Name of Equipment | : | Elisa Reader- Biotek |
| 2. Model | : | Bioteck-Powerwave
RPRW1/96S/N205911
Sl. No.: 205911 |
| 3. Manufacturer | : | Bioteck Instruments Inc., USA |
| 4. Year of Purchase | : | April 2007 |
| 5. Present Condition | : | Non - Working |

12. Inverted Tissue Culture Bright Filed Phase Contrast Microscope

1. Microscope for Bright field and Phase contrast applications with Universal Infinity Corrected Optical system.
2. ILLUMINATION: Microscope should have LED transmitted light illumination (with support working life min. 20,000 Hrs or more). Should have Interference green filter for phase contrast sample.
3. Observation tube: Trinocular observation tube with interpupillary distance adjustment of 48 – 75 mm, Trinocular port to attach camera, along with paired eyepieces of 10X magnification and F.N 22 or higher.
4. Long working distance condenser suitable for Bright Field & phase contrast Application N.A. 0.3 or higher & WD 72 mm or higher and Quadruple or Quintuple revolving nosepiece and Achromat Phase 10x , Achromat Long Working Distance Phase 20x ,40X.
5. Mechanical Stage with holder to accept all types of specimen (slides, tissue culture flasks, petri dishes etc). With Co axial XY controls for adjusting the mechanical stage.
6. The microscope should be on-site upgradable to fluorescence with 100 watt ,130 watt or higher mercury burner.
7. Color Camera: Scientific grade color camera with a resolution of 5.0 megapixels or higher. USB3.0 interface. Live image display (frame rate) of minimum 15 fps at full resolution up to 75 fps through binning, bit depth of at least 12 bits, binning options of 2x-4x or better.
8. Imaging Software: Software for snap & movie acquisition, live comparison, annotation, scale bar, basic manual measurements etc. The microscope, camera & software should strictly be from the same manufacturer. The bidders must mandatorily mention the weblinks of the manufacturer's website for confirmation of compliance to tender specifications.
9. Branded laptop with i5 intel processor or better, 8GB or higher RAM, 1TB HDD, 15" or higher screen, Genuine Windows 8/10 OS, USB3.0 interface.
10. Warranty and installation: 3 years of comprehensive warranty including spares, parts should be provided for complete system. Installation should be done free of charge at our lab.
11. NOTE:- Vendor should enclose ISO/CE conformity certification of quoted Microscope.
12. MICROSCOPE SHOULD HAVE UPGRADABILITY OPTION FLUORESCENCE.

13. Real Time PCR System

Detailed specification / configuration of the equipment

1. Heating and cooling method	Peltier
2. Dye Compatibility	FAM™, SYBR® Green I, VIC®, NED, ABY, JUN, TAMRA, and ROX™
3. Multiplexing	Upto 4 targets per well
4. Dynamic Range	10 orders of magnitude
5. Sensitivity (Resolution)	Detect differences as small as 1.5-2 folds in target quantities in singleplex reaction
6. Sensitivity (Number of Copies)	1 Copy
7. Key Applications	Gene expression, Copy number variation, High resolution melt, SNP genotyping, Mutation scanning, Mutation detection, Protein thermal shift, MicroRNA profiling, Methylation analysis
8. Weight	Less than 26kgs
9. Sample capacity (wells)	96 (0.1 mL and 0.2 mL blocks),
10. Average sample ramp rate	4°C/sec or more
11. Temperature Range	4°C to 100 °C
12. Temperature uniformity	0.4°C
13. Onboard memory	10 GB, which translates to approximately 2,000–5,000 run files
14. Electrical approvals	IEC, CE
15. Excitation (light source)	Bright white LED
16. Filters/colors	4 coupled filters
17. Excitation/detection range	450–600 nm/500–640 nm / Detection with CCD Camera
18. Data acquisition	Whole-plate imaging
19. Touch screen	Interactive touch screen with real-time application viewing
20. Communication interface	Cloud, USB or Wi-Fi connectivity
21. External devices	2D barcode reader via USB connection
22. System configuration	Stand-alone, PC connected, or direct connection to Cloud via LAN or Wi-Fi
23. Cloud design and analysis software	<ul style="list-style-type: none">• Desktop option using Microsoft™ Windows™ 7 operating system• Web browser–based software option; run on PC or Mac™ computer
24. Run programming options	<ul style="list-style-type: none">• Pre-optimized protocol templates or ability to customize• Programmable and manual pause• Locked workflows

25. MIQE compliance	Real-time PCR data markup language (RDML) export format
26. Single-plate analysis	Absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt
27. Multiplate analysis	Gene expression studies, SNP genotyping studies
28. Data Analysis Modes	PCR quantification with standard curve, Melt Curve Analysis, Allelic Discrimination, End point Analysis
29. Data Export	Save, copy & print all graphs as spreadsheets from right click menu. Customizable reports containing run settings, data graphs & spreadsheets which can be directly printed and saved as pdf
30. Computer	The system should come along with a MAC laptop system for control, operation, analysis, net-working of multiple system and a have USB port for data export to Power point, Excel or JPEG file formats
31. Screen Interface Usage	Instrument's touch screen interface should allow for editing of thermal protocols, including editing of individual PCR stages, individual PCR steps, block zones settings, Auto Delta settings, programmable pause settings, temperature settings, step duration settings, reaction volume settings, heated cover temperature, and ramp rate settings
32. Warranty	3 years (All necessary calibrations should be free during this period)- -Comprehensive Warrantee.
33. UPS	UPS should be provided along the instrument
34. Consumables	Should provide all necessary consumables (master mix and 96-well plates with optical sealers) for performing 1000 reactions.

Stores-In-Charge

**ICMR – NATIONAL INSTITUTE OF CANCER PREVENTION AND RESEARCH
PLOT NO. I-7, SECTOR-39, NOIDA – 201301**

OTHER TERMS AND CONDITIONS OF SUPPLY

1. Tender should be preferably, typewritten and every correction in the tender should invariably be signed by the Tenderer, failing which, the tender is liable to be rejected.
2. The Tenderer should ensure that the equipment(s) offered fully meet(s) the Specifications laid down by the Institute. If at any stage (even after placement of order/shipment/installation, etc.) it is noted that the equipment offered does not meet the specifications, The Director, NICPR Noida reserves the right to take any decision including cancellation of the Tender/offer/Purchase Order etc. with forfeiture of EMD/SD/PBG as the case may be. Any dispute in this regard concerning any Terms and Conditions of the Tender and/or the supply of equipment, will be subject to Noida Jurisdiction only.
3. Tender for only one model as per our specifications should be quoted. No optional model should be included in the tender.
4. No Tenderer shall be allowed at any time on any ground whatsoever, to revise or modify the rates quoted by him. The Tenderer will not be allowed to withdraw the offer quoted. In the event of withdrawal, the EMD tendered shall be forfeited.
5. Increased statutory levies and duties, over and above the rates quoted in the Tender, will be borne by the Tenderer for supplies after the originally permitted Date of Supply in the Purchase Order. The Institute shall not extend validity period for this reason and it will not bind the Institute for supplies beyond the date specified in the Purchase Order.
6. **Agency Commission** For imported goods the Tenderer should clearly mention the Agency Commission separately in the Price Bid, failing which tender will be rejected. The agency commission will be paid in Indian Rupees in India after satisfactory Installation and Commissioning of the equipment.
7. **Inspection and Acceptance of Equipment** – Acceptance process of the Equipment supplied will be considered complete only after successful Installation and Commissioning of the Equipment at NICPR, Noida, duly Certified as such by the User and Countersigned by the Director NICPR, Noida.
8. **EMD**: EMD, as indicated in the Schedule of Requirement at Annexure – I, in the form of Account Payee Bank Drafts in favor of “**The Director, NICPR**”, payable at “**Noida**” are to accompany Technical Bid. Tender without the EMD will be rejected summarily. No interest is payable on EMD which should be valid for at least 90 Days. EMD of un-successful Bidders will be released on finalization of Purchase Order. The **Tenderer may quote either for all the Equipments or for either** One/Two etc of them and submit EMD accordingly.
9. **Payment** – 100% Payment for the Equipment(s) will be made after Acceptance of the Equipments as per Para 7 above, on submission of the Invoice, Acceptance Certificate (Para-7 above) and PBG as per para 16 below. No separate payment clause is to be offered/mentioned by the vendor/Tenderer in its Quotation which may entail rejection of the said Tender in toto.

10. **The firms should clearly indicate the pre-installation requirements for the equipment in their tender/quotation.** If the firm ignores this clause, the items required at the time of installation for the equipment and associated delay will be borne by the vendor at its own cost.
11. Supplier should give an **undertaking** that spare parts will be supplied as and when ordered for a period of **ten years** from the date of Installation.
12. If the tenderer fails to execute the Purchase Order within the specified delivery date or, as mutually agreed to in writing, the Order will be cancelled and SD/PBG will be forfeited.
13. The Instrument and Software should be installed and tested as per the specifications free of charge, including Training of two operators of the Institute staff at NICPR and subsequent up-gradation of software for the equipment.
14. Manufacture's test Certificate along with conditions and results is to be supplied along with the equipment.
15. **Warranty** - All the items of equipment should be warranted for as mentioned in the specifications at Annexure-II. The warranty period will start from the date of successful Installation & Commissioning and Acceptance of the equipment. AMC charges for the subsequent Five Years should be clearly indicated in Price Bid.
16. **PBG** The successful vendor will need to submit a Performance Bank Guarantee (PBG) for 5.0% of the total P.O. value, valid for a period of one month, beyond warranty period. In case of any warranty enforcement, the period of Warranty will get suitably extended for the affected period of Warranty repairs/replacements if it takes 15 days or more after intimation about the same in writing. PBG will be released after successful completion of warranty period.
17. All damaged or unapproved goods shall be removed by the vendor at its own cost and risk. Any incidental expenses incurred by the Institute thereon shall be recovered from the vendor. Defective parts in the equipment, if found, before installation and during the warranty period, shall be replaced within 30 days of date of intimation from the NICPR, at the cost and risk of supplier, including customs duty, etc.
18. **Liquidated Damages (LD)** – LD @ 0.5% of the Total Purchase order Value, per week will be levied on the vendor for delay in Supplies, Installation & Commissioning of Equipment at Noida, from the Original delivery date given in the Purchase Order, subject to maximum LD of 2.5%, beyond which the Purchase Order may be cancelled in Toto without any financial liability on the Part of NICPR, Noida. The LD so levied will be recovered from the Final Bill/Performa Invoice of the vendor. For calculation of the LD, any fraction of the week (i.e. less than Seven Days) will be considered as a week. However, Director, NICPR, Noida reserves the right to waive-off full or a part of the LD so levied, on application by the vendor giving full reasons for delay, and acceptance of such reasons for delay by the Director, NICPR, Noida.
19. **All the pages of these Terms & Conditions are to be duly signed by the Vendor and returned/attached** with the Technical Bid, failing which the Tender will be summarily rejected.

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