TENDER NOTICE

Tender Notice No: NIIH/STORE/26/2019-20            DATE: 24/05/2019

The Director, ICMR-National Institute of ImmunoHaematology NIIH, ICMR, Mumbai, invites sealed limited tender in two bid System up-to 18.06.19 (Tuesday) (4.00 PM) from Manufacturers/Sole Authorized Dealer / Distributors for purchase of following equipment as per details given below during the financial year 2019-2020 :-

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Equipment</th>
<th>Qty</th>
<th>Specification</th>
<th>EMD</th>
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<tbody>
<tr>
<td>01</td>
<td><strong>Fluorescent Microscope</strong></td>
<td>01</td>
<td>1. Fully motorized fluorescence microscope with apochromatically corrected beam path for Fluorescence analysis.</td>
<td>15000.00</td>
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<td>2. Motorized Research microscope stand with Z step resolution 15 nm or better with adjustable height stop and torque of focusing. Objective specific focusing speed adjusting for scanning and capture</td>
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<td>3. Frame: Microscope frame for transmitted light application and incident light application with built in filter holders for 8-10 filters.</td>
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<td>4. Fluorescence light source should be at least</td>
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<td><strong>120W metal halide with approx. 2000hrs self-life with power supply stabilizer.</strong></td>
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<td><strong>5. Observation tube:</strong> Wide field trinocular tube with FOV 22-25mm.</td>
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<td><strong>6. Eyepieces:</strong> 10X (with 22-25mm field of view) wide field eyepieces with diopter setting of ± 0.5 in both eyepieces. Eyecups for eyepieces.</td>
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<td><strong>7. Stage:</strong> Motorized, Rectangular, coaxial stage with specimen holder and X, Y co-ordinate marking. With right hand low drive control mechanism protection.</td>
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<td><strong>8. Objectives:</strong> Revolving Motorized Septuplet nosepiece for accommodating up to 7 Objectives. Apochromatic objectives</td>
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<td>9. 10X/ (0.4 or better), 2) 20X/ (0.75 or better), 3) 40X/ (0.95 or better) 4) 60X/ (1.40) oil and 5) 100X/ (1.4) oil. Phase Achromatic objectives 1) 20X/ (0.4 or better), 2) 40X/ (0.65 or better) Condenser: Universal bright field / Phase turret type condenser of numerical aperture 0.8 of better.</td>
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<td><strong>10. Oil Dispenser should be provided. Additionally suitable oil (100ml) should be supplied.</strong></td>
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<td><strong>11. Lens cleaning paper (objectives, condenser, eye piece), 100 packs should be provided.</strong></td>
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<td><strong>12. FISH Filters:</strong> Filter Turret should hold 8 filters at a time.</td>
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<td>1) Single band DAPI, FITC and Spectrum Orange 2) Dual band (Green, Orange) 3) Triple band (Green, Orange, Dapi) 4) Spectrum Aqua 5) Spectrum Gold 6) Cy3 7) Cy5</td>
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13. Microscope should be integrated with our existing SKY assembly and ASI software.

| 02 | **Droplet PCR**  
**High Sensitivity Quantitative PCR** | 01 | 1. System should provide an absolute measure of target nucleic acid molecules with high precision and sensitivity without the use of standards and standard curves.  
2. System should support multiplexing experiments with probe base as well as dye base chemistry.  
3. A single party must provide all the components and should be a single workflow  
The System should have following components:  
1. Droplet generator  
a. System should be able to partition a 20 ul or more of sample volume into 1 Nano litre sized partition  
b. System should have a partition generator capable of generating partition for up to 96 samples in less than 30 minutes  
2. Plate sealer  
3. PCR machine  
a. Gradient 96 well PCR which can be used as a standalone PCR machine as well.  
4. Droplet reader  
a. A two color fluorescent partition reader capable of reading 96 samples at a time and suitable software.  
b. System should be capable of analyzing 96 samples at a time. | 80000.00 |
c. System should offer precision of ± 10%.

d. System should have a linear dynamic range of five orders of magnitude for detection of input samples.

e. System should be able to detect and quantify one copy of target sequence.

f. System should use two light emitting diodes for illumination and differentially detect emission using two filtered multipixel photon counter.

g. The reader should be able to detect at least 2 colours from a single partition.

h. The reader must be sensitive to detect fluorescence from amplification of a single target molecule.

5. Software:
   a. Should provide fraction of negatives droplets for each samples to fit to a poisson algorithm to determine absolute copy number of target DNA.

   b. Should have the ability to count the number of partitions for each sample after every run. Should give concentration analysis for each sample.

   c. Should have copy number variation, Gene expression, Absolute Quantification & Rare event analysis modes.

   d. System should be capable of absolute quantification, rare mutation and sequences detection, SNP detection, copy number variation, gene expression analysis, single gene expression, NGS validation and library quantification.

   e. Absolute quantification: The machine should be able to quantify nucleic
acid molecules (both DNA and RNA) in the sample without the necessity of standards.

- f. The machine should be able to detect a single copy of the target in the sample.

- g. Rare mutation detection: The machine should be able to detect a single mutant copy in a background of a million wild type copies in a single run, using dyes, single probe or dual probes.

General requirements

- a. The supplier should also be able to provide inventoryied and custom designed prevalidated assays for the templates of interest.

- b. All the above features must be supported by product/technical brochures, highlighted on Point-to-point basis will be only considered while technical evaluation

- c. System should be supplied with all essential accessories and reagents for minimum of 100 samples.

- d. Provide a list of consumables required to run the system and quote separately for each of them.

<table>
<thead>
<tr>
<th>03</th>
<th>Lateral Flow Strip Reader</th>
<th>01</th>
<th>1) Detection system: Colorimetric (Colloidal gold, colored latex beads, carbon particles, etc) and fluorescence.</th>
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<td>2. Range limit: Internal calibration with standards for accurate detection within the set limit. User can select various algorithms for quantitative test.</td>
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<td>3. Reproducibility of measurement.</td>
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- 4. Multiple assays per run (Up to 08 lines per strip)
- Allow creating various methods to read and interpret the LFIA results.
- Calibration curve must be able to determine by manually or automatically (by software)
- Accessory: External printer

| 04 | Stereozoom Microscope with Accessories | 01 | 1. Optical System : Parallel optics type  
2. Zoom Ratio : 7:1, 8:1 and above  
3. Zoom Range : ( with 1X objective and 10x eyepieces )  
4. Tube : Binocular  
5. Eye Pieces : 10X ( pair ) Field of View (FOV) 22 mm  
6. Objective : Plan Apo 1X  
7. Working distance: 70mm  
Illumination:  
8. Transmitted light base with LED with intensity control  
9. Bifurcated gooseneck reflected light LED illumination. | 10000.00 |
| 05 | **HPLC System**  
**Automated HPLC Machine** (Buy Back) | 01 | ➢ System should be fully automated based on HPLC principle.  
➢ The system should be able to screen and quantitate haemoglobin all types of hemoglobins, including normal HbS [HbA2, HbA and HbF] and abnormal Hbs [HbS, HbD, HbE, ]  
➢ The system should be capable of at least 100 vials at a time.  
➢ Throughput of the system should be 10 samples / hr for haemoglobin detection.  
➢ System should be capable of using whole blood for haemoglobin analysis from primary tube and should have cap piercing capacity.  
➢ The system should have an on board QC menu capable of storing the quality control data and printing the standard deviation and coefficient of variation. Also the software should enable result storage of minimum 5000 chromatograms. | 100000.00 |
| 06 | **Next Generation Sequencing system** | 01 | ➢ The next-generation sequencing (NGS) system should be a bench-top model with minimal footprint and it should support a broad range of applications: whole Genome, transcriptome, exome, shotgun metagenomics and re-sequencing of microbes, resequencing of higher eukaryotes, RNA and small RNA sequencing, as well as cytogenetics microarray and karyotyping.  
➢ The system should be able to carry out array based cytogenetic analyses and should have an inbuilt microarray scanner for cytogenetic applications.  
➢ The system should offer a high data | 700000.00 |
output of about 120 GB per run.

- Single instrument should be able to perform sequencing and primary data analysis.

- The system should have a reasonable runtime to perform integrated massively parallel sequencing of DNA/RNA libraries loaded directly on the system.

- The sequencing technology should offer accurate sequencing of homopolymers and repetitive regions of 15 bases or more in the genome and highest read quality score of Q30.

- Should be supplied with UPS of 5KVA with 1 hr backup.

- Warranty: 5 year onsite, parts and labor total 5 years

- System should be supplied with a compatible Workstation for data analysis, with the following specifications:

- Should have the following items:
  - Dual Processor: Latest processor of Gold 5120 family (19 MB L3 cache, 14 cores, 28 threads, 3.20 GHz Max turbo frequency) or above
  - Raid Controller PCI or Onboard with option of RAID1 and RAID 5
  - Memory: 8 x 32GB = 256 GB DDR4 each processor 128 GB or above.
  - 8-16 x DVDRW±, Optical Disk Drive
  - Hard Disk: 4 TB x5 (Raid 5 configuration) 12 TB usable or more
- Graphic Card: NVIDIA Quadro K1200
  4GB GDDR5 or above

- Monitor: 24”UHD LED plasma screen with DP, HDMI and VGA support

- Wired Optical Mouse x1

- Wired Keyboard x1

- Operating system: Dual Boot of Windows 10 Pro 64 bit and Linux (Latest Ubuntu or CentOS) installation by vendor along with license if required

- Provide parallel access to windows and Linux OS by virtualization

- Support for diagnostic and recovery software.

- Supply of all cables and connection required in the system

- Support for Installation and fine tuning of open source Linux software or tools used for bioinformatics data analysis. Which essentially should included

  - Stampy(http://www.well.ox.ac.uk/bioinformatics/Software/Stampy-latest.tgz)
  - bedtools (bedtools-2.27.1.tar.gz 19.1 MB)
  - samtools (Download Latest Version samtools-1.9.tar.bz2 (4.4 MB)
  - bowtie2 (bowtie2-2.3.4.3-linux-x86_64.zip)
  - platypus(http://www.well.ox.ac.uk/bioinformatics/Software/Platypus-latest.tgz)
  - GATK toolkit (GATK-4.0.8.1)
  - trimmomatic (binary)
| 07 | **Microscope with digital camera** | 01 | ➢ Optical system: Infinity Optical System.  
➢ Magnification Range: 100X-1000X.  
➢ Eyepieces: 10x (20 mm)  
➢ Illumination: High luminescent white LED illuminator (Eco-illumination) ILLUMINATION .PERIPHERY, Long Life 60000 HOURS.  
➢ Nosepieces: Quadruple Nosepiece.  
➢ Focusing: Coaxial coarse/fine focusing, Right: fine, Left: coarse/fine.  
➢ Focusing stroke: 26.5 mm, Coarse: 37.7 mm/rotation, Fine: 0.2 mm/rotation, coarse motion torque adjustable, Refocusing function.  
➢ Stage: Rectangular stage (within main body), with specimen holder, Cross travel: 78 (X) x 54 (Y) mm  
➢ Eyepiece: Trinocular Tube, | 20000.00 |
Eye-piece/Port: 100/0, 0/100, 360° rotatable.

- Condenser: Abbe Condenser N.A. 1.25.
- Objectives: Plan Achromat 10X (0.10 / 30)
  - Plan Achromat 20X (0.25 / 0.7)
  - Plan Achromat 40X (0.65 / 0.65)
  - Plan Achromat 100X Oil (1.25 / 0.23)
- Camera: CMOS, Colour, 1/1.8" Chip size, Pixel Size: 2.4 µm x 2.4 µm,
  Resolution: 6 Megapixel (3072 x 2048),
  Frame Rate: 41 fps @ 3072 x 2048,
  Rolling Shutter, Exposure Time: 0.13 ms - 15 sec,
  Automatic Setting: Exposure, Color Scale, White Balance, Manual Setting: Exposure, Gain, Noise Reduction, Gamma, Flat Field Correction, osaic 2.0 Imaging Software with Intelligent 12-bit ISP color reproduction,
  Real-time depth of field fusion, Real-time image stitching, Real-time fluorescence image synthesis and editing, HDR image synthesis, Micro-imaging-based intelligent automatic exposure, Smart measurement workflow, Implements multiple iterations of workflow execution, Supports single shot, delayed camera.

- Microscope should be upgradable for following: Observation methods: Epi-fluorescence, Dark field, Phase contrast, Simple polarizing.

- Computer: Branded i5 Processor 8th generation, with 8 GB RAM, 2 GB graphic card, 1TB HDD, Keyboard, Optical Mouse, Multimedia Kit, DVD Writer, 18.5" TFT Colour Monitor, Pre-loaded Windows 10 OS, 1394b Fire Wire port.
<table>
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<tr>
<th>08</th>
<th>HPC Server (High Performance Computing)</th>
<th>01</th>
<th>COMPUTE NODES - 1 QTY</th>
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<td>Processor: (Intel Xeon Scalable Processor) or Better</td>
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<td>RAM: (128 GB in pair) (Balanced configuration), Server supporting scalability to 1TB with (128 GB) 1.5 TB LRDIMM or better memory configuration in balanced mode</td>
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<td>Network interface: (10 GBPS fiber or Ethernet)</td>
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<td>HDD: (800GB SAS drive with 10K or 15K RPM)</td>
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<td>Systems management: Advance Failure analysis support on systems for CPU, memory, HDD, Power supply and fans. LED diagnostics on server even without Power. Automatic Server Restart, management port</td>
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<td>OS support: TPM 1.2, RedHat Linux, Suse Linux, Windows 2012 enterprise)</td>
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<td>Ø PCIe 3.0 Slots : 1 PCIe Gen 3.0 slots</td>
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<td>Power Supply: Redundant and hot pluggable power supply</td>
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<td>Cables: Power cables compatible with the quoted rack</td>
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<td>Fans: Redundant and Hot swap</td>
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<td>Rail Kit: Rack mounting sliding rail kit</td>
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<td>Chassis: All Compute nodes to be Chassis based, chassis should support minimum of 12 or more servers with N+1 Redundancy.</td>
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<td>MANAGEMENT COMMUNICATION</td>
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<td>NETWORK - 1 No. converge switch in case of SAN storage with redundancy or modular switch with all 10G capability ports.</td>
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<td>CONSOLE - 1 No.</td>
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<td>Console 1U 17&quot; rack mountable Console or 18.5&quot; display monitor(with KVM)</td>
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<td>Others required no. of cables with suitable length and Keyboard and Mouse.</td>
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<td>RACK - 1 No.</td>
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<td>Size and Dimension: 42U Server Rack with 800x1200 dimension.</td>
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<td>Door: Should have double perforated doors. (Front and Back)</td>
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60000.00
□ PDU : Power Distribution Unit - IEC 10 Amp { C-13 } - 20 Socket & 06/16 Amp - 04 Socket - Special – Single Pole / Screw Mountable / 32 Amp MCB / Alternating Current - Indicator – WITH 6 SQ. mm POWER CABLE & 32Amp INDUSTRIAL PLUG & DIGITAL AMMETER. (2 nos)
□ Tray: Key Board Tray - 19” Width - Rotatory along with Monitor Tray - Ventilation - 495W - 700D

UPS - (2 Sets Rack mount with external battery)

□ UPS System: A suitable branded UPS system for minimum 30 Min. power backup on full load.
□ All the required accessories to be provided such as cables, wires and battery mounting kits.

User Desktop Machine - 1 No.

□ Configuration : One Compact HP or Dell Desktop PC with 8 GB Ram, 2 TB Hard Disk, i5 (8th Generation) processor, 24“ inch Monitor, Windows OS

SOFTWARE - 1 Set.

Cluster Management Software: (virtualization software)

□ Proposed cluster management tool to be fully supported by it’s OEM.
□ Proposed cluster management tool should have web based graphical remote access interface.
□ Should be compatible to work on RHEL 5.x / RHEL 6.x / CentOS 5.x/ CentOS 6.x/ Fedora
□ Should be able to provision above operating systems to compute nodes. Should be able to auto-provision applications to compute nodes
□ Techno-Commercial Bid for Linux Cluster with Gigabit Interconnect
□ Should allow HPC management console to be accessible from any system in the network.
□ Should support role based access to the HPC
Every role should be able to be remotely managed using the Graphic User Interface.

Should provide profile-based and fully automated provisioning features.

Proposed cluster management tool should have a graphic user interface.

Should support Add/Modify/Delete compute nodes from GUI window.

GUI (Web) based monitoring feature to be part of proposed solution.

Should support major power management modules like bullpap, wti, apc_snmp, ether_wake, ipmilan, drac, ipmitool, ilo, rsa, lpar, bladecente as per the hardware proposed.

Job scheduler

Bidder should propose a job scheduler which is fully supported by them. Job Scheduler proposed should only be OGE / Torque / Open PBS or Licensed and supported version of PBS Pro. No other scheduler to be proposed.

Libraries, MPI and Compilers

Bidder should propose GNU Compiler.

Bidder should implement Open MP and MPI network.

Bidder should set up the Cluster for MPI Communication over IB/GigE

Vendor specific InfiniBand stack on Linux OS, if available, should be supplied.

Vendor specific MPI implementation on Linux OS should be supplied.

Open source software/platforms should be integrated with the cluster.

IIT Bombay also has licenses from Abacus, Matlab, Comsol, ANSYS, Erdas etc. These also to be integrated with the cluster.

Jobs Submission Portal

Bidder should propose for ISV supported GUI Based Job submission portal.

Proposed GUI Based job submission portal
should be in production mode with at least 3 organizations in India of which 2 have to be Govt/research organization. At least 1 location from the same to be in production mode for last 3 years.

- Proposed portal should be integrated with existing LDAP or NIS authentication.
- Proposed job submission Portal should be fully integrated with proposed Cluster management tool and Scheduler.

Operating System

- CentOS our RHEL latest version to be proposed for master nodes with 3 years of support.
- Scheduler – Scheduler proposed should be compatible with hardware and software infrastructure proposed and too be supported by bidder.

SCOPE OF WORK

- Rack Mounting & Cabling and Integration of all the components to the supplied Factory Integrated HPC Cluster followed by the civil work.
- Head Node Installation and Configuration.
- Compute Nodes Installation and Configuration.
- Application Installation which would be provided by the user.
- Benchmarking: Application benchmarking.
- Acceptance Test and fine tuning.
- Training on cluster usage to all the users.
- 3 Years of onsite comprehensive warranty and support. May go up to 5 years if AMC opted.
- 3 Years of onsite comprehensive warranty and support. May go up to 5 years if AMC opted.

SCOPE OF SERVICES

- Planning & Designing
- Implementation & Configuration
- Hardware Implementation
- Site Survey and Material Inspection.
- Hardware Mounting, Cabling & BIOS Settings.
- IPMI configuration on all the nodes
- RAID Configuration on Master/Compute nodes
- Onsite fabrication of the room & installation to be done by the vendor.
- Cluster Implementation
- Rocks cluster installation on Master node with latest CentOS
- Installation & Configuration of Compute nodes.
- Configuring all the HPC systems to the Central Authentication.
- Installation of Open Source Compilers, Libraries & MPI (openmpi/mpich2/mvapich2)
- Installation and Configuration of Job scheduler (Grid Engine)
- Configure queue and policies in Grid engine as per IITB requirements
- Installation and Configuration of Applications like - VASP, QE and High Memory stamp
- Integration of Applications with job scheduler
- ATP & Sign-off
- Testing and tuning of cluster
- Project documentation, UAT and Signoff
Terms & Conditions :-

Tenders should reach this office positively on or before 18.06.2019 (Tuesday) at (4.00PM). Technical offer will be opened on 19.06.2019 (Wednesday) at (11.00 a.m.). The Tenderers or their authorized representatives should be present at that time. Late tenders will not be entertained. The financial bids of the tenderers whose bid will qualify technically, will be opened on 01.07.2019 (Monday) at (11.00 am).

Every firm who submits a tender shall submit the tender in usual printed form of their firm. The firm should also quote latest version having the mentioned or higher technical specification. If there is any upgraded version is launched at the time of placing order, the firm should inform the institute. The firm should submit that the items is new equipment & not a refurbished.

The time allowed for supplying items as mentioned in the tender shall be strictly observed by the tenderer & shall be deemed to be of the essence of the contract on the part of the tenderer.

Earnest money mentioned against the item should be deposited by every firm except those firms which are registered with NISC etc. in the office through Demand Draft along with the Technical Bid in Favour of Director, National Institute of Immunohaematology, Mumbai, which shall be retained after accepting the tender. Tender without having the EMD is liable to be rejected.

In the event of tender being rejected, the earnest money forwarded with such unaccepted tender shall thereupon be returned to the tenderer.

If the tenderer fails to supply the items within the stipulated period or to complete their promises committed in their tenders or during negotiation / discussion, the tender shall be forfeited & no further business will be done with that firm & action to black list the firm may also be taken.

The supply should generally be made in the office premises within 2-3 weeks from the date of issue of supply order & in case of imported item, the delivery should be made as the time mentioned in the tender. If there are any charges to be paid due to delay in supply the same will be borned by the tenderer and any charges may also be cancelled in special contingent circumstances.

Service of products after sale preferably at Mumbai / (Maharashtra) or the nearest place should be mentioned. Please mention the time after lodging the complaint a certificate for local support given by manufacturer.

Priority shall be given to the ISO Certified supplier & the material should be ISI or ISO certified.

If quoted equipment or model is discontinued after quoting the item, the firm will supply the equivalent or higher version.

Prices should be valid upto 31/07/2020.
No advance payment will be made. 100% payment will only be released after supplying & successful installation of the equipment. The equipment should be on **3 Years Warranty / CMC (Annexure – A)** & **2 Years non comprehensive service for equipment Free of cost** & after furnishing security deposit in the form of **Bank Guarantee (Annexure – B)** issued by any Nationalized / Commercial Bank / FDR (duly pledged in Favour of Director, NIIH, Mumbai) / Demand Draft @ 10% of the value for a period of sixty days beyond the expiry of the warranty period. Security deposit is not required in case of value of equipment is upto Rs.1.00 Lakh. In case security deposit is not furnished by the firm then this amount will be deducted at the time of releasing the payment.

The envelope containing tender should be superscribed with Limited Tender for purchase of Equipments (name of equipment must be mentioned) during the year 2018 – 2019. **Separate envelope** must be used for each equipment. In case more than one tender are received in a single envelope all tenders will be summarily rejected.

Any assembled parts or the parts from the grey market will not be acceptable. For any repair / replacement of the item, only the accessories authorized by the Manufacturers should be used. During the Guarantee / Warranty period any upgradation or updating, if necessary will have to be done at the cost of the supplier.

Break down service will have to be provided preferably within 3 working days of the first call. If the break-down period is beyond, the penalty action will be taken against the firm/company.

Every tender for equipments should contain two envelopes one with **technical specification** of the Equipment & the order with the financial **tender**. The separate rates for each make & model should be quoted. The tender that qualifies for the technical specification only will be taken for consideration of the financial aspects.

A certificate regarding manufacturer / distributorship should be attached along with the tender.

Incomplete tenders are liable to be rejected.

In case of any dispute, jurisdiction will be at Mumbai.

The supplier should mention about the same or other equipment installed in and around Mumbai along with their stations and date of installation and a certificate from the user/person.

Director reserves the right to accept or reject all or any tender partly or fully and also increase or decrease the quantity of the items without assigning any reasons. No correspondence will be entertained in this regard.

Rates of tender for imported equipment will be on **F.O.B. basis** destination up to Mumbai and all the dispatch related information of the item like Packing Slip, Airway Bill, Bill of Lading (Original), Certificate of Origin from Chamber of Commerce (Original), especially for credit supplies. Insurance Certificate (Original) shall be communicated to this office well in time.
The firms, which have enclosed transaction details done by them for the last three years will be eligible for submitting the tender form. Please submit the audited balance sheets of last three years as a proof, otherwise tender will not be considered.

Council employees or their relatives are not entitled to purchase or submit the tender forms.

Detailed Tender documents can be seen and download from the website of this office [http://niih.org.in](http://niih.org.in) / [https://icmr.nic.in](https://icmr.nic.in) of Institutes headquarters at New Delhi.

The tenderer has to submit the copies of their valid/current income tax clearance along with PAN and copies of GSTN also.

Every tenderer, should submit complete tender document duly filled and signed with seal of the firm along with the necessary documents, viz. Declaration Form and Warranty / Guarantee certificate, otherwise their bid will not be accepted.

A schedule for AMC charges for a period of minimum 05 years after warranty period must be attached along-with the price bid in the enclosed (Annexure-C)

As per GOI instructions, all payments to suppliers etc. are to be made by direct credit to the bank account of the beneficiaries through PFMS. Therefore all the beneficiaries (Suppliers/firms) are essentially required to submit/fill up the mandate form (Annexure-D) duly attested along-with a cancelled cheque of the firm. In case there is a change in the beneficiary's account number etc. in later stage, the revised mandate form shall have to be furnished.

Prior turnover and prior experience to Micro & Small Enterprises (MSES) is relaxable subject to meeting of quality and technical specifications in accordance with the relevant provisions of GFR-2017. Encl- declaration form.

Director
Annexure-A

**WARRANTY CERTIFICATE**

We Warrant that everything to be supplied by us hereunder shall be brand new, free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered shall be in full conformity with the specification, drawing, or samples, and operate properly. We shall be fully responsible for its efficient operation. This Warranty shall survive inspection of any payment or and acceptance of the goods but shall expire after (except in respect of complaints of which the supply has been notified prior to such date) 36 months plus six days beyond the expiry of Comprehensive warranty from the date of successful installation, commissioning and acceptance by **ICMR-National Institute of Immunohaematology**, Mumbai and 2 Years non comprehensive service for equipment Free of cost.

The obligations under the Warranty expressed above shall include all costs relating to labor, spares, maintenance (preventive and unscheduled) and transport charges from site to the manufacturers work and back and free repair/adjustment or replacement at site or any parts of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to conform to the specifications previously given by the **ICMR-NIIH**, Mumbai to the supplier.

Signature & seal of bidder

Note: It should be provided in the letter head of the firm/ company.

Annexure-B
Performance Bank Guarantee

Bank Guarantee No:---------------------------

Amount of Guarantee: Rs. -----------------------

Valid Up to :-------------------------

Guarantee Cover from : to _____________ to _______________

The Director
ICMR-National Institute of Immunohaematology,
(Indian Council of Medical Research)
Ministry of Health, Govt. of India
13th Floor, N. M.S. Bldg, KEM Hospital, Parel, Mumbai - 400012

This deed of guarantee executed by (Name of Bank) . ...............Constituted under the (Bank Act) .................... having its Corporate Centre at and amongst other places Branch.......................................................................................................................... (hereinafter referred to as “the Bank”) in favour of Director, ICMR - National Institute of Immunohaematology — Mumbai - 400012. (hereinafter referred to as “the Beneficiary”) for an amount not exceeding Rs. .................... (Rupees .......................... ..) at the request of (Name of Firm) ............ (hereinafter referred to as “the Contractors”).

This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. .......................... .. (Rupees .......................... ..) and the Guarantee shall remain in full force upto ...............................

Whereas you have entered in to a contract reference No………………….. P.O. No. ............................. .. with (Name of Firm) ................................................ .. for the supply of ...................................................................... which is hereinafter referred to as “the said contract” and whereas (Name of Firm) ................................................ .. has undertaken to produce Bank Guarantee for the 10% of the contract price amounting to Rs. .......................... .. (Rupees .......................... ..) to secure its obligations to ICMR - National Institute of Immunohaematology - Mumbai - 400012. for the warranty of the equipment supplied.

We, (Name of Bank) .......................................................... .. hereby expressly irrevocably and unreservedly undertake and guarantee as Principal obliges on behalf of (Name of Firm) that in the event ICMR - National Institute of Immunohaematology - Mumbai - 400012 declares to us through you that (Name of Firm).......................................................... .. has not fulfilled the warranty/other obligations according to the contractual warranty obligations under the said contract to pay you on demand without any reference to M/s an amount of Rs. .......................... ..(Rupees Notwithstanding any right/disputes raised by (Name of Firm) ................................................ .. or any said or proceedings pending in any competent Indian Court or before any arbitration tribunal, your written demand shall be conclusive evidence to us that such payment is payable under the terms of the said contract and shall be binding in all respect on us.

We shall not be discharged or released from the aforesaid undertaking and guarantee by any arrangements, variations made between you and (Name of Firm) .......... indulgence to (Name of
Firm) ............................................................................ by you with or without our consent and knowledge or by alterations in the obligations of (Name of Firm) ........................................................ by any forbearance whether as to payment time performance or otherwise.

We further agree and undertake not to revoke this guarantee before the same is discharged in writing by you. This guarantee shall remain valid until..........................

Notwithstanding anything contained herein. Our liability under this guarantee is restricted to Rs. ...................................(Rupees .........................................................)

This Bank Guarantee shall be valid up to ......................... We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only if you produce us a written claim or demand and received by us or before ..........i.e. the date of expiry of this bank guarantee.

The Bank Guarantee should be returned to us after the Expiry date for cancellation purpose, even if the original guarantee is not returned, our liability on this guarantee ceased to exist.

Dated at.......................at this .....................Day of ........................

Dated: ________________________

Place: _________________________

(Signature of authorized Officer of the Bank)

Witness (Name, Address & Signature)

1.

2.
# MANDATE FORM FOR RTGS/NEFT

Annexure – D

To,
The Director,
ICMR-NIIH,
13th Floor, N. M. Bldg, KEM Hospital,
Parel, Mumbai – 400012.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vendor Name (Beneficiary Name)</td>
</tr>
<tr>
<td>2</td>
<td>PAN Number</td>
</tr>
<tr>
<td>3</td>
<td>TAN Number</td>
</tr>
<tr>
<td>4</td>
<td>TIN Number</td>
</tr>
<tr>
<td>5</td>
<td>Service Tax No.</td>
</tr>
<tr>
<td>6</td>
<td>GSTN</td>
</tr>
<tr>
<td>7</td>
<td>Complete Address</td>
</tr>
<tr>
<td>8</td>
<td>City</td>
</tr>
<tr>
<td>9</td>
<td>Country</td>
</tr>
<tr>
<td>10</td>
<td>State</td>
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<td>11</td>
<td>District</td>
</tr>
<tr>
<td>12</td>
<td>Pin Code Number</td>
</tr>
<tr>
<td>13</td>
<td>Mobile No.</td>
</tr>
<tr>
<td>14</td>
<td>Phone No.</td>
</tr>
<tr>
<td>15</td>
<td>Email No.</td>
</tr>
<tr>
<td>16</td>
<td>Bank Name</td>
</tr>
<tr>
<td>17</td>
<td>IFSC Code</td>
</tr>
<tr>
<td>18</td>
<td>Account Number</td>
</tr>
</tbody>
</table>

NOTE: Please attach a photocopy of cancelled cheque for purpose of verification of the concerned Bank account.

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not affected at all for reasons of incomplete and incorrect information, I would not be holding the user Institute responsible.

Date:

[Signature/Seal of Dealer /Firm]

(To be attached along – with Price Bid only)

Annexure – C
## Installation, Warranty & Supply of Parts /Spares

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particular</th>
<th>Description / Annexure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Free Warranty Details</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Number of Preventive Maintenance Visits per year during FREE Warranty</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Discount to be offered by the company on the spares/ parts / consumables/ attachments etc. for the period of minimum 05 years after supply &amp; installation of the equipment</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>Cost should include</strong> Cost of UPS and other accessories, whenever required. Upgradable software, whenever applicable for at least 5 year. Computer and Printer, if required.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Whether the charges for Installation, Commissioning &amp; testing at NIIC, Mumbai &amp; NIIC FS Key long (Maharashtra.) are included in the price list.</td>
<td></td>
</tr>
</tbody>
</table>

**Authorized signature with stamp**

*(To be attached along – with Price Bid only)*

**AMC/CAMC Details**

<table>
<thead>
<tr>
<th>Year-wise AMC/CAMC Charges For 05 years <em>(after free Warranty)</em></th>
<th>Year</th>
<th>AMC charges</th>
<th>CAMC Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Year</td>
<td></td>
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<tr>
<td></td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Year</td>
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<td></td>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Year</td>
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<td></td>
<td>4&lt;sup&gt;th&lt;/sup&gt; Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5&lt;sup&gt;th&lt;/sup&gt; Year</td>
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<td></td>
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</table>

**Authorized signature with stamp**

*Signature & Seal of bidder*

**Annexure H**

24
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Particulars</th>
<th>Compliance (Yes/No)</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>When Quotation is from Indian agent / Dealer – whether letter of Authorization of Foreign principal is enclosed in the technical bid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Whether the proof of turnover for is enclosed (balance sheet) &amp; PAN No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>For Two Bid System – Whether Technical bid and Price Bids are kept in separate envelopes duly indicating Techno – Commercial Bid and Price Bid respectively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Whether Tender Number, due date and opening date have been written in all the envelopes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>In Case of Tender document downloaded from the website – Whether the tender document fee (demand draft in favour of Director, National Institute of Immunohaematology, Mumbai) is enclosed along with Techno commercial bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>EMD – Whether the required EMD is Enclosed along with the Technical bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>In case the firm is exempted from payment of EMD (Like SSIs registered with NSIC, firms registered under DGS &amp; D) – Whether Valid Permanent Enlistment Certificate of NSIC / Valid DGS &amp; D Rate Contract copy is enclosed in the Technical Bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>If You are an Indian Agent / Dealer / Distributor for a foreign principal have you enclosed the Letter of Authorisation / Agency certificate in the Technical Bid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Whether Technical compliance Statement attach in technical bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Whether Details of After sales support is given and is enclosed in the Technical Bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Whether the warranty certificate is enclosed as per Annexure A and is enclosed in the Technical Bid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Whether Checklist Annexure H enclosed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Whether the List of Users is given and is enclosed in the Technical Bid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Whether the Pre-installation requirements is given in the Technical bid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Whether rate list of spare parts and related consumables to maintain the equipment beyond 3 years comprehensive warranty period is provided (discount should be mentioned)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Whether the Technical Bid/Price Bid has been signed in every page</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature & seal of bidder