**BHARATHIAR UNIVERSITY : COIMBATORE – 641 046**

**TENDER NOTICE**

**No.BU/RUSA 2.0/2022/R3-R6/BCTRC/539-1 Date: 21.02.2022**

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 **upto 3.00 P.M on 21.02.2022 (Separate Technical bid and Commercial bid)** from the reputed ISO Certified Firms for the supply of **1No. of NGS** **DNA Sequencer** to the **RUSA Lab** underRUSA 2.0 BCTRC Project**.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TENDER COST:-** | **Rs.15,750/-** | **EMD COST:-** | | **Rs.2,50,000/-** |
| **LAST DATE FOR SUBMISSION OF TENDERS** | | | **21.02.2022 up to 3.00P.M.** | |
| **TECHNICAL BIDS OPENING DATE** | | | **21.02.2022 at 4.00 P.M.** | |

The Tender documents and details of terms & conditions can be downloaded from our website [www.b-u.ac.in](http://www.b-u.ac.in) **from 21.01.2022 to 21.02.2022.**

**REGISTRAR i/c**

**BHARATHIAR UNIVERSITY**

**BHARATHIAR UNIVERSITY – COIMBATORE 641 046.**

**TENDER TERMS AND CONDITIONS FOR THE SUPPLY AND INSTALLATION OF**

**1No. of NGS DNA Sequencer** to the **RUSA LAB** under **RUSA 2.0 BCTRC Project**

1. Sealed Tenders will be received by the **Registrar, Bharathiar University from the ISO Certified Firms** up to **3.00 p.m. on 21.02.2022**  in two bids (Technical & Commercial) for the **supply and installation of 1No. of NGS DNA Sequencer** to the **RUSA LAB** under **RUSA 2.0 BCTRC Project as specified in the schedule.**
2. Tender should be addressed to the Registrar, Bharathiar University and should be only in sealed covers by Registered post or in person. Tenders received in ordinary covers without seal will not be considered.
3. The tender shall be submitted in a sealed cover with **Ref. No. and superscribed** as “Tender for the supply and installation of the **1No. of NGS DNA Sequencer** for the **RUSA Lab**, under RUSA2.0 BCTRC Project. **Due on 21.02.2022** with the **tenderers full address and contact number (MOBILE Number).** **Separate sealed covers should be used for technical and price bid and please be superscribed on the cover**. The covers received without such superscription will be rejected summarily.
4. **Technical Bids will be opened on 21.02.2022 at 4.00 p.m. by the Registrar or his/her nominee in the presence of the tenderers** or their representatives may be present at the time of opening. The representatives of the tendering firms who attends during opening of the tenders must produce their identification proof and authorization letter from the tendering firms.

**If the tenderers are unable to participate at the time of tender opening kindly be informed through mail** [**rusabharathiar@gmail.com**](mailto:rusabharathiar@gmail.com)

1. **Price bids will be opened after technical evaluation of bids which will be informed later.**
2. **Faxed Bids are liable to be rejected**
3. The tender shall be accompanied with the requisite Tender Cost of **Rs.15,750/- and EMD of Rs.2,50,000/-** in the form of **DD drawn in one of the Nationalized Banks** in the name of **“Registrar, Bharathiar University”** payable at Coimbatore. **Bank Guarantees or Cheques will not be accepted.**
4. Tenders without EMD shall be summarily rejected. EMD will not carry any interest. If tenderers specifically exempted by the Government from the payment of earnest money deposit /tender cost, necessary certificate (NSIC & MSME) in respect of the item for which the registration certificate has been obtained. Copy of the Registration Certificate alongwith the terms and conditions including validity time period should be enclosed and highlighted to considered the exemption. Offers submitted without proper Registration Certificate shall be rejected summarily.
5. The tenderer should meet the eligibility criteria laid down in the tender documents and the tender document should be duly signed in each page.

The tender should be substantially responsive to the technical specifications and commercial conditions set out in the tender documents.

1. Tenders which are found not to be substantially responsive under any of the above clauses shall be rejected for further scrutiny.
2. **The University is not responsible for any postal delay in receipt of tender. Delayed/Late bids will not be accepted at any circumstances. Any tender received after the due date will be returned to the tenderer.**
3. The tender shall be valid for a **maximum period of 180 days** from the date of opening of the tender in acceptance. If the tender validity is less than **180 days** the tender will be rejected as non-responsive tender.
4. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it is opened, the EMD will be forfeited and black listed.
5. The EMD of the unsuccessful tenders will be refunded after the tenders are disposed off by the competent authority.
6. **The technical bids should fulfill the following conditions:**
7. The brief description of the equipment with make and model should be mentioned.
8. A tenderer should be a manufacturer possessing a valid manufacturing license from the competent authority for manufacturing the items. (Documentary evidence to be furnished)
9. Manufacturer (OEM) / Authorized Dealer / Distributor / Supplier can also bid with authorization letter from the manufacturer.
10. Manufacturer should not authorize more than one dealer / distributor for participating in the tender.
11. ISO Certified Firms
12. Company Profile
13. Copy of the GST Registration Certificate and PAN
14. Average turnover in the last 3years & IT Return.
15. CE certification or any other relevant certification must be encloses
16. The tenderer should not have been blacklisted or debarred from participating in tenders by any Central/State Government agencies or autonomous bodies or universities / institutions. (An undertaking to this effect should be furnished)
17. Thebidders who fulfil the eligibility criteria will be considered for technical evaluation. The price bid of the technically qualified bidders will be opened for negotiation.
18. **PRICE BID :** Price shall be quoted as per the format given in Appendix-.

The tenderer shall not carry out any alteration in the format prescribed for Price Bid. The tenderer shall not enclose any other document or statement that will influence the price.In such an event,the tender inviting authority shall summarily reject the tender.

**Imported** :The tenderer shall quote the price in all Currencies for CIP Chennai / **FOR Coimbatore** up to the destination and should be indicated clearly both in words and figures.

I**ndigenous**: The tenderer shall quote the basic price plus GST, Packaging and Transportation. No separate charges for warranty period will be considered.

1. The rate should be quoted for item with specification and model if applicable and should be indicated clearly both words and figures. Any scoring or overwriting in the price bid should be attested by the bidder with full signature. The rate quoted should be firm and should not be subject to any variation clauses.
2. The rate should include excise duty, surcharge, sales tax, freight, insurance, delivery, installation and commissioning of the above work and such other levies that may be applicable. The bidder should clearly mentioned the details of their tax, customs and other charges, etc.
3. If the equipment is imported, Customs Duty, Clearance, delivery, transportation, Insurance charges should be mentioned clearly. The firm has to arrange the authorised customs clearing agent on behalf of University for customs clearance.
4. University shall not pay any increase in duties, taxes and surcharges on account of any revision by the Government at the time of supply and installation.
5. Supply shall be as per the specifications mentioned in the Appendix and accordingly at the time of supply.
6. The tender form (Annexure I & II) should be completed in all respects. Wherever the information is not relevant to your bid, the space should be appropriately filled with ‘NA or NIL’. No space shall be left blank. All pages of the tender documents should be enclosed otherwise the tenderers are likely to be rejected.
7. The commissioning and installation should be getting completed within the stipulated period mentioned in the supply order. If the supply is not made within the period, the supply order will be cancelled and the EMD & Security deposit will be forfeited.
8. Successful tenderer has to remit the **Security Deposit 6.5%** to the order value in the form of **Demand Draft drawn in favour of “The Registrar” Bharathiar University** payable at Coimbatore. The EMD of the Successful Bidder will be adjusted towards Security Deposit (SD). Security Deposit will be refunded at the end of warranty period as per the purchase order subject to the satisfaction of the University.
9. A**greement**:- Successful tenderer shall execute an agreement for the fulfilment of contract in Rs.100.00 Non judicial stamp paper of Tamil Nadu Government or any State Government. If failed to execute the agreement, the EMD will be forfeited. The conditions stipulated in the form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to be right of the University and to recover any consequential loss from the successful tenderer.
10. The materials are to be guaranteed for the warranty period mentioned as per the given specifications from the date of installation and commissioning against manufacturing defect and bad workmanship. The period of warranty and the Annual Maintenance Contract (AMC) are as per the given specifications and the specified period shall commence from the date of installation.
11. **PAYMENT**

**Imported:** 100% payment will be made through Irrevocable Letter of Credit (LC) in favour of the Principal Supplier, Foreign Demand Draft (or) Currency wire transfer after supply in favour of the Principal supplier. Advance payment is not applicable

**Indigenous**: The payment will be made only after supply and installation of the equipment either by Cheque or RTGs.

1. **CUSTOMS DUTY & TAXES :**

**Imported :** The equipment purchased is for Research and Development activities. University is registered with DSIR and exempted from customs duty for all research equipments as per the Government Notification No: 51/ 96 Customs Dt.23.7.1996.and Government Notification No.10/97 Central Excise Dt: 1.3.1997.

**Indigenous:** The GST and IGST will be paid as per Govt Notification No.45/2017 –Central Tax (Rate) & 47/2017-Integrated Tax(Rate) dated 14.11.2017 : NO. 9/2018-Central Tax(Rate), No.09/2018- Union Territory Tax (Rate) & No.10/2018 – Integrated Tax(Rate) dated 25.01.2018: and State Tax(Rate).

1. If the equipment has Customs Duty as per Customs Tariff of India, the tenderer should mention HSN Code for the said equipment.
2. The customs clearance, transportation and delivery charges has to be borne by the supplier. Local supplier shall arrange an authorized customs clearing agent on behalf of the University. The University shall provide all the necessary documents under this notification to enable the supplier to clear the goods whenever required after receipt of invoice, airway bill /shipping notice and packing list from the principal supplier.
3. No demurrage will be paid by the University for Customs clearing delay.
4. Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.
5. The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.
6. Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.
7. **Loss or Damage**: External damages or shortages that are prima facie the results of rough handling in transit or due to defective packing will be intimated within a fortnight from the date of receipt of the material, Internal defects, damages of any internal parts that cannot ordinary be exhibited on superficial inspection though due to bad handling in transit or defective packing will be intimated within two months from the date of receipt of the stores. In either case the damaged or defective stores will have to be taken back at supplier’s cost and risk.
8. **Guarantee**: The Supplier shall undertake to repair free of charge or replace any defective part of the equipment supplied due to defective or faulty design or bad workmanship during the warranty period from the date of installation of the equipment.
9. **Leaflets and Descriptive Literature**: Full descriptive particulars and manuals of the equipment offered should accompany the tender. Information regarding the country of manufacturer or origin of materials in the manufacture of articles should be furnished.
10. **Tests:** Manufacturer’s certificate for the routine tests specified in the BSS of the test issue or as per manufacturer’s standard practice should be forwarded in duplicate. The materials will be rejected, if the test results are not satisfactory.
11. **Penalty Clause**: The delivery should be guaranteed by the tenderer under the penalty clause mentioned hereunder:

“When delivery is delayed by strike, lockouts, fire accidents or any cause whatsoever, beyond the reasonable control of the contractor and whether such delay or impediment occurs before or after the time or extended time for dispatch or completion, a reasonable extension time shall be granted.

If the contractor fails in due performance of this contract, within the time fixed by the contractor the extension thereof, the contractor is liable at discretion of the purchaser to a penalty of 4% per month of the contract value of such portion only of materials as cannot, in consequence of the delay, be used during each month between the appointed or extended time as the case may be and the actual time of acceptance, and such penalty shall be in full satisfaction of the contractor’s liability for the delay but shall no in any case exceed 25 % of the contract value of such portion of the materials”.

1. The material should be supplied strictly in accordance with the specifications given in the Appendix and should fulfil the successful tests carried out by the Competent Authority of the University. The supply and installation should be made as per the delivery schedule The guarantee period shall take effect from the date of installation. Successful tenderer shall be liable to change any defective part during the warranty period. In either case the damaged or defective items will have to be taken back at supplier’s cost and risk.
2. The installation and training charges if any are to be borne by the firm.
3. Incomplete Tenders: Tenders without the complete particulars will not be considered.
4. No communications from any tenderer adding to/adhering or explaining any terms of the tender will be considered prior to the submission or after opening of the tenders by the competent authority.
5. **Amendment:**

Tender Inviting Authority may amend the tender wherever it is felt that such an amendment is absolutely necessary.

1. In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be uploaded in the website only and bidders are requested to verify the amendments before the submission of the tender provided no such change could be effected 48 hours prior to the time fixed for opening of the tender
2. The tender shall be submitted along with the downloaded tender documents subject to and agreeing the above conditions duly attested and certified.

**Place:-** **SIGNATURE OF THE TENDERER WITH SEAL**

**Date:-** **Name & Designation:-**

**Mobile No:-**

**SCHEDULE**

**1No. of Next-Genaration Sequencer(NGS)**

**Next Generation Sequencing System with accessories**

1. Quoted NGS system should support Sequencing by Synthesis technology flow cell based or Ion Semiconductor sequencing technology. If it is flows cell based, the system should have random flow cell or pattern flow cell without super resolution optics.
2. Quoted NGS system should be capable of providing output data of 25 Gb or more generating up to 100 million reads or more in a single sequencing run using one sequencing chip/flow cell in 24 to 48 hrs.
3. Quoted system should have on-board templating, sample loading capacity or as a separate system. It should come with Automatic template generation and on chip loading necessary accessories should be providing for automated analysis.
4. Quoted NGS system should support minimum 200 or more single end or paired end runs.
5. Sequence output should generate accurate base calls and high error free raw data with Q20 or more with minimum incorrect base-calling.
6. Quoted NGS system should have an integrated or separate server storage/hard drive storage of 20 Tb or higher.
7. It should enable highly accurate variant detection, extremely uniform coverage, and sensitivity to detect low-frequency variants.
8. System should be able to sequence multiple samples at a time with option of using barcodes for sample multiplexing up to 384 or more.
9. System should be flexible enough to select different chips/flow cells to support different data outputs and applications.
10. Quoted system should support sequencing long homopolymers i.e. 7-mers or more.
11. Next Gen Sequencing (NGS) system should occupy minimal lab footprint and should be offered with facility for template DNA amplification and sequencing with all necessary equipment to perform complete sequencing solutions.
12. The system should have an option of integrating with a cloud-based computing environment, for data storage, sharing and analysis.

**The system should address the following experimental works and credentials.**

1. System should support and must have readymade assays /panels/designs for Human micro biome, Anti-microbial resistant gene panels, pan bacterial panels, human, animals (Cow, chicken, fish, mice, mouse, pig) and plant (rice, wheat, soybean, tomato) gene panels. Ready-made comprehensive oncology 500 plus unique genes assay to detect, analyze complex multi-gene biomarkers for mutational signatures, including tumor mutational burden (TMB), microsatellite instability (MSI) for immunotherapy research.
2. Quoted system should have compatible readymade cell-free cancer assays which can analyze DNA and RNA simultaneously using the same assay.
3. Quoted system should support wide variety of applications like Microbial whole Genome sequencing, metagenomics, Human, animal and plant whole transcriptome, mRNA sequencing, Targeted RNA sequencing, Human, animal and plant whole Exome sequencing, small RNA sequencing, Oncology research, Cell free assays, liquid biopsy assays, prenatal research, infectious diseases research like micro biome and Anti-microbial resistance.
4. Quoted NGS system should support targeted Genotyping by sequencing application for plant and animal studies which should be compatible to run up to 5000 markers per sample and must have >1000 barcodes to support GBS applications.
5. The technology should be robust and globally proven with minimum of 1000 publications in peer-reviewed journals
6. The unit price of following consumables must be quoted and based on budget availability, orders will be placed. This unit price of the consumable will be used for selection of the lowest vendor.
7. Consumables required to process minimum 20 numbers of metagenomics samples originated from animal guts, plant rhizosphere with >1million reads per sample. Consumables should include Primers to amplify the hyper variable regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing regents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
8. Consumables required to process minimum 20 of whole bacterial genome of 5 Mb size at ~100X coverage. Consumables should include reagents to fragment whole genome, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing regents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
9. Consumables required to process minimum 20 transcriptome (human/ animal / plant) gene expression samples. Consumables should include Primers to amplify the target regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing regents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
10. Consumables required to process minimum 20 restricted genome and exome sequencing for human/ animal/ plant. Consumables should include Primers to amplify the target regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing regents and Sequencing flow cell/Chips. All part numbers with relevant pack sizes details should be mentioned.
11. Consumables required to process minimum 20 oncogene and epigenetic modification in human/ animal/ plant capturing kit. Provision need to be provided with pricing to decide orders based on samples whose details will be provided at the time of procurement. It should include primers to amplify the target regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing regents and Sequencing flow cell/Chips. All part numbers with relevant pack sizes details should be mentioned.
12. The following essential accessories for the facility towards NGS library preparation must be quoted along with the main instrument. The unit price of each accessories must be quoted. Based on budget availability, orders for accessories will be placed. This unit price of each accessory will be used for selection of the lowest vendor.
13. **Benchtop fluorometer - 1 No.**

* To accurately measure DNA, RNA and Protein quantity and RNA integrity & quality with easy-to-use touch screen which delivers results in few seconds.
* System should be compatible with assay kit to provide a fast, simple method to check whether RNA sample has degraded using the same instrument.
* Kits to be provided for 500 dsDNA high sensitivity assays with appropriate Assay tubes along with instrument.

1. **Automated Electrophoresis equipment – 1 No.**

* with high sensitive and highly efficient for DNA, RNA and Protein analysis suitable for NGS with following specifications
* High throughput Electrophoresis system for analyzing up to 16 samples or more in a single run for sizing of DNA / RNA.
* The system must offer individual tips/slots for sample loading to avoid any contamination issues.
* The system must not use any external/internal Nitrogen / Helium / Gas cylinder for running the Instrument.
* The system must offer scalable throughput to analyze samples depending on the requirement from a minimum 1 to a maximum of 16 samples or more with a constant running cost.

The chips/tapes/plates must be reusable for the remaining slots after loading of few samples.

* Automatic sample loading provision within the system for reproducible results
* The system must not use any fragile capillaries for electrophoresis. Instead, rugged chips/tapes/plates must be used.
* The instrument must offer a dedicated kit for the analysis of genomic DNA / RNA and cf-DNA samples.
* The system must offer flexibility to analyze DNA and RNA Samples.
* The vendor must offer a dedicated kit for High Sensitivity DNA/RNA for NGS workflow. The kit must offer sizing in the range of 35 – 1000 bp or more and sensitivity of up to 100 pg/μL or more.
* The system must be able to accommodate sample volume of 5μL or less of precious sample for all applications including High Sensitivity Analysis.
* The Instrument software must offer a feature for calculating the integrity of RNA and DNA.

1. **Standard 96 well Real Time PCR machine with following specifications – 1 No.**

* Latest generation Peltier-based thermal cycling system, accommodates Standard 96-well plates, 0.2 ml 8-strip tubes or individual tubes.
* The system must be capable of working with minimum sample volume of 10 to 25 µl.
* Minimum four-color multiplexing filters and should have the capability to be upgraded to six or higher channels.
* Fully integrated quantitative PCR amplification, detection, and data analysis system and should be open for all chemistries including SYBR® Green and Eva Green dyes as well as fluorogenic probe systems including TaqMan probes.
* System should be capable of running 2 to 3 individual programming in the same run with different set of temperature.
* Max block ramp rate should be 6.5°C/sec with temp uniformity of 0.4°C and sample ramp rate of 3.66°C/sec.
* The built-in emission filters to readily support broader range of fluorophores with a greater sensitivity for longer wavelength (red) dyes. The system should be readily configured and optimized for use of any of the following dyes or a combination thereof at any time, without any change in the hardware: FAM™/SYBR® Green, VIC®/JOE™/HEX/TET,ABY®/NED™/ TAMRA™/Cy®3, JUN®, ROX™/Texas Red®.
* A complete line of reagents including TaqMan® universal PCR Master Mixes and SYBR® Green I Master Mixes, and disposables including tubes and 96-well plates for use with the system must be quoted. The manufacturer should quote a choice of ready-made assay kits or ready-to-make assay kits for Gene Expression as well as SNP analysis.

1. **PCR thermal cycler (Gradient) – 1 No.**

* Suitable for 96 wells plates with touch screen
* Max. block ramp rate 6.0°C/sec and thermal uniformity <0.5°C
* Max. sample ramp rate 4.4°C/sec and Thermal accuracy ±0.25°C

1. **Centrifuge with plate rotor and 2 ml rotor – 1 No.**

* The centrifuge should be capable to offer swinging bucket, fixed angle and microplate rotors to meet current and future sample processing needs of the lab.
* The centrifuge must have both CE and IVD marked, UL listed- for safety containment.
* It should have a Unique spindle drive technology for short acceleration/deceleration times.
* The Rotor lid must be certified for bio-containment by a 3rd party lab of worldwide recognition preferable a Health Protection Agency, Public Health.
* The centrifuge must have a Imbalance Detection System of Continuous vibration measurement, with rotor mass correction.
* It should have a automatic rotor recognition technology.
* It should have a Pre-temp program for rapid pre-cooling.
* It should have Sample loss detected during runs with automatic breaking.
* It should have a RCF selection and quick run function.
* The drive should be Brushless Induction and the Microprocessor Controlled System
* The maximum timer range should be 99h 59min, continuous
* It should be provided with the Following Rotors

1. 2 mL Fixed Angle Rotor

Max Capacity: 24 x 1.5 ml

Max Speed: 17,000 rpm or above

Max RCF: 30,000 x g or above

1. Microplate Swinging Bucket Rotor

Max Capacity: 4 microplates or 2 midi-deepwell plates

Max Speed: 4,400rpm or above

Max RCF: 2,576 x g or above

1. A magnet for efficient magnetic separation of all types of Dynabeads® (range 1–4.5 µm in diameter) in small (< 2 mL) sample volumes.
2. DNA gel electrophoresis device, gel casting unit, power supply and essential cables and chords.
3. Blue-light (UV) transilluminator for gel visualization and amber filter accessories.
4. **-20°C Upright Freezer – 1.No.**

* It should have a freezer with capacity of above 300 litres.
* It should have unique refrigeration system for faster cooling and better stability
* It should have environment friendly R-600a refrigerant
* It should have at least 10 adjustable shelves/drawers
* It should have lock facility for safety
* It should have temperature display
* It should be supplied with suitable stabiliser
* It should be with minimal weight

1. **Upright Lab Refrigerator – 1 No.**

**-** Storage for samples and reagents 2 to 10 C refrigerator – 1 No.

* It should have a capacity of 400 litres or above.
* It should temperature range 0°C to 10°C
* It should have environment friendly refrigerant
* It should have atleast 4 adjustable shelves.
* It should be with minimal weight.
* It should have wheels for ease of transportation.
* It should be supplied with suitable stabiliser.

1. **Ice flaking machine – 1 No.**

Ice production Capacity : 90 kg/24 Hrs Condensing Unit : Air Cooled

Storage Built-in Bin Cap. : 20Kg.

1. **Ultrasonicator (75W PIP) – 1 No.**

* For Cell lysis of mammalian, bacterial, yeast, Tissue lysis and extraction, cfDNA Extraction from Plasma, DNA/RNA/Chromatin.
* Shearing, DNA Extraction from Dried Blood Spots, DNA/RNA/Total NA/Protein Extraction from FFPE.

1. System should be supplied with all the accessories required to run the system/application viz., 5KVA UPS with 3hr back up.
2. The vendor should also supply the specific vibration free table for the installation of the NGS system.
3. **Minicentrifuge with 1.5 ml rotor**

* Mini Centrifuge with minimum 6 positions to accommodate all major microtube and PCR tube styles (2.0, 1.5, 0.5, 0.2 mL).
* It should have a speed of 6000 rpm.
* It should have quick-spin feature.
* It should not operate without lid in place for safety reasons.
* It should have tool-free, quick rotor exchange.
* It should have CSA, CE and UL listed for safety containment.
* It should be supplied with 6 x 1.5/2.0mL tube rotor, 16 x 0.2mL tube rotor

(singles or 2 x 8 strip), 6 tube adapters 0.2mL, 6 tube adapters 0.5mL,

storage case for rotors and adapters, tube rack.

1. **Vortex machine Mini 1 No.**
2. **Spin-win with rubber bottom – 1 No.**
3. **Micropipette set – 2 sets.**

* Each set should have five single channel variable volume pipettes with the following volume ranges: 0.2-2μL, 2-20μL, 10-100μL, 20-200μL and 100-1000μL.
* It should contain tough PVDF components that stand up to harsh chemicals and the damaging effects of UV light. Its rugged design withstands physical use without damage.
* It should be fully autoclavable without the need for disassembling.
* It should have Advanced Volume Gearing mechanism.
* It should be CE marked in accordance with IVD Directive in Europe.
* Tips: Boxed, low retention, sterile, RNAse, DNAse and pyrogen free aerosol barrier tips (1250 ul, 200ul, 10ul)- 960 nos each

1. The supplier should provide 2ton split air-condition system with appropriate stabilizers/accessories – 2 Nos.
2. **High through put data analysis support**

The supplier should provide the following system with configuration 8th Generation Intel Core i7 Processor with Windows 10 Home + Office OS, 32 GB RAM, 1 TB SSD Hard Disk, 4 TB SATA Hard disk, 4GB NVIDIA GeForce MX130, fingerprint reader, 27 inch LED monitor.

1. **Manpower:** Trained manpower having strong knowledge on NGS based sequencing and analysis should be provided during the supply of the NGS machine for a minimum period of two years.

**Minimum eligible criteria**

* Quoted instrument model should have at least 15plus installations across India.
* Minimum 4 installation reports with performance letters must be submitted.
* System should provide three years comprehensive warranty. Separate five years AMC should be quoted along with the instrument. Both prices will be used for selection of the lowest vendor.

**SIGNATURE OF THE TENDERER**

**ANNEXURE - I**

**BHARATHAIR UNIVERSITY : COIMBATORE – 46**

**TECHNICAL BID**

Tender reference No :-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name and address of Bidder
2. TENDER Cost :- Rs. \_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_, dt.

Amount of EMD :- Rs. \_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_, dt.

Bank:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Due Date of bid :
2. The bid shall remain valid for acceptance for 180 days, from the date of tender opening.
3. Schedule of Requirements:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No | Brief description of stores | | | | Qty  Required | Qty  Offered | Delivery | Unit  price  (Rs) | Total Cost  (Rs) |
|  |  | | | |  |  | **At Bharathiar University**  **Coimbatore** | **To be filled in Annex:II** | **To be filled in Annex:II** |
| (i) | GST |  | % |  | | - | - |  |  |
| (ii) | Warranty:- | **3Years Comprehensive Warranty** | | | |  |  |  |  |
| (iii) | Other charges, if any | | | | | - | - |  |  |
| Grand total cost in Rs. | | | | | | | |  | |
| Total cost (in words) Rupees. | | | | | | | | | |

**Note:-**

1. All columns must be filled up.
2. Adhering to the format given above is a pre- requisite for considering your bid.
3. Please indicate applicability.

I/certify that I/We have completely read and understood and agree to all the terms & conditions given in Part II.

Date:- Signature of Bidder :-

Office Stamp Signing as :-

Name in block letters :-

Tele No. Fax No. e mail:-

**ANNEXURE: II**

**BHARATHAIR UNIVERSITY : COIMBATORE – 46**

**PRICE BID**

Tender reference No:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name and address of Bidder
2. TENDER Cost :- Rs. \_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_, dt.

Amount of EMD :- Rs. \_\_\_\_\_\_\_\_\_\_, DD No. \_\_\_\_\_\_\_\_\_\_, dt.

Bank:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Due Date of bid :
2. The bid shall remain valid for acceptance for 180 days, from the date of tender opening.
3. Rates for items given in Techno-commercial offer at Schedule of requirements are as follows:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No | Brief description of stores | | | | Qty  Offered | Delivery | Unit  price  (Rs) | Total Cost  (Rs) |
|  |  | | | |  | At Bharathiar University  Coimbatore |  |  |
| (i) | GST |  | % |  | - | - |  |  |
| (ii) | Other charges, if any | | | | - | - |  |  |
| Grand total cost in Rs. | | | | | | |  | |
| Total cost (in words) Rupees. | | | | | | | | |

**Note:-**

1. **All columns must be filled up.**
2. **The base price of the product and the GST rate should be mentioned separately. DSIR will be provided for the concessional rate of 5% along with the purchase order, since our university is an educational institution.**
3. **Adhering to the format given above is a pre- requisite for considering your bid.**
4. **Please indicate applicability.**

Date:- Signature of Bidder :-

Office Stamp Signing as :-

Name in block letters :-

Tele No. Fax No. e mail:-

**BHARATHIAR UNIVERSITY : COIMBATORE – 46**

**LETTER OF ACCEPTANCE**

Tender No.

Date :

To

THE REGISTRAR

Bharathiar University

Coimbatore – 641 046.

I/We agree to furnish required supplies / services as detailed in the Tender schedule or such portions thereof as you may specify in the Acceptance of Tender in accordance with the General Terms and Conditions governing the contract / supply order enclosed hereto duly accepted on receipt of the order for the same.

I /We agree to hold this offer open until and shall be bound to supply / omission /erect the equipment and despatch the same within the specified period.

I/ We agree to supply and commission /erect the equipment and complete the whole of the work and hand over to the purchaser within the period of weeks. From the date of receipt of intimation from you regarding acceptance of this tender / receipt of supply order.

Signature of the bidder

With office stamp

Name & Address

Station:-

Date :-