

## BHARATI VIDYAPEETH

(DEEMED TO BE UNIVERSITY)

Centre for Innovation in Nutrition Health Disease (CINHD)

Interactive Research School for Health Affairs (IRSHA)

PUNE-411 043 (INDIA)

### TENDER NOTICE

### NOTICE INVITING TENDER

Ref. No.: BVDU/CINHD-IRSHA/2019-20/231

Date: 17/02/2020

Registrar, Bharati Vidyapeeth (Deemed to be University), Pune (Maharashtra) India invites sealed bids for the following instruments from Manufactures/Distributors/ Suppliers under Science and Engineering Research Board (SERB) equipment project grant received vide letter No. IRR/2018/000024 Dated-15-Nov-2019.

Sr. No.	Description of the item	Qty	EMD in Rs.
1.	Fully Automated Hematology analyser	1	4,000/-
2.	Stability chamber	1	3,000/-
3.	Homogenizer - Colloidal mill	1	2,500/-
4.	Gas Chromatography	1	8,000/-
5.	Solvent extractor (Solid Liquid Extraction unit)	1	Nil

Tender Documents with complete terms and condition, technical specification etc can be downloaded from Bharati Vidyapeeth (Deemed to be University) website <http://irsha.bharativedyapeeth.edu/>. The tender should reach the Head, Centre for Innovation in Nutrition Health Disease (CINHD), Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune - 411 043 on or before

01/03/2020 (1<sup>st</sup> March, 2020)

*Handwritten signature*  
**DIRECTOR**  
Centre For Innovation in Nutrition Health Disease  
Bharati Vidyapeeth (Deemed to be University)  
IRSHA, Pune-Satara Road  
Dhankawadi, Pune-411043



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**Registrar**

Bharati Vidyapeeth (Deemed to be University), Pune.

Registrar

Bharati Vidyapeeth  
(Deemed to be University)  
Pune-411 030, India



Centre for Innovation in Nutrition Health Disease (CINHD), Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune invites tenders for the purchase of Fully Automated Hematology analyser, Stability chamber, Homogenizer-Colloidal mill, Gas Chromatography and Solvent extractor (solid liquid extractor), hereinafter is referred as BUYER/ purchaser and Tenderer is referred as BIDDER/ Suppliers.

1. Technical specification of instrument are as per attached ANNEXURE-A.
2. The bidder should submit offer into two parts- Part A should includes the technical offer and Part B should be financial offer.
3. The supplier shall pay and bear all other liabilities, taxes and duties not specifically agreed by the purchaser in the commercial offer.
4. The leaflets catalogue, etc. should be sent invariably so that proper evaluation of the equipment offered is possible.
5. Pre installation requirement for instrument (power specification, space required etc) should be mentioned clearly.
6. The quotation MUST BE ENCLOSED IN A SEALED COVER super scribing tender number/due date and "Offer for Instrument" and should reach to "Head, Centre for Innovation in Nutrition Health Disease (CINHD), Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune-Satara Road, Katraj-Dhankawadi, Pune-411 043" on or before due date mentioned in tender notice.
7. All communications are to be addressed to "Centre for Innovation in Nutrition Health Disease (CINHD)", Interactive Research School for Health Affairs (IRSHA), Pune, Bharati Vidyapeeth (Deemed to be University), Pune. In case due date happens to be holiday the tender will be accepted and opened on the next working day.
10. GST/Other Govt. Taxes: Excise Duty (ED), other taxes, levies etc. are to be indicated separately. BIDDER should mention Central and State GST Registration Number, PAN Number in the offer as applicable.
11. DELIVERY: The successful BIDDER should deliver the material as mentioned in the tender document/purchase order.
12. BUYER will evaluate technical and commercial acceptable offers in its approved technical committee and /or Purchase Committee. Technical Committee and /or Purchase Committee will have right to accept or reject the BIDDER. The Technical and /or Purchase Committee will decide to accept the required configuration, items and other requirements in its discretion.



13. **SUPPLEMENTARY OFFER/MODIFICATION OF ORIGINAL OFFER:** Tender submitted against Notice Inviting Tender (NIT) shall not be returned in case the tender opening date is extended/ postponed or cancelled. In case, BIDDER desirous to modify (or asked to modify) their offer/terms, may submit their revised/supplementary offer (s) within the extended Tender Opening Date (TOD) by clearly stating to extent of updation done to the original offer.

BUYER reserves the right to open the original offer along with the revised offer.

14. **CANCELLATION OF TENDER:** Notwithstanding anything specified in this tender document, BUYER in its sole discretion, unconditionally and without having to assign any reasons, reserves the rights:

a) To accept OR reject lowest tender or any tender or all the tenders.

b) To accept any tender in full or in part.

c) To reject the tender offer not confirming to the tender terms.

15. **TERMS OF PAYMENT:** Payment terms should be mentioned clearly. It is in the discretion of the BUYER to accept, modify or reject the payment terms offered by BIDDER. BIDDER is allowed to split the payment in foreign currency and in Indian Rupees (for items or services being procured and provide locally).

16. In case any BIDDER is silent on any clauses mentioned in these tender documents, BUYER shall construe that the BIDDER had accepted the clauses as per the invitation to tender. No further claim will be entertained.

17. Revision in the terms and conditions quoted in the offer will be entertained in the Technical committee and Purchase committee.

18. Date and time of opening of Price Bid shall be intimated to technically qualifying bidders only.

19. **LIQUIDATED DAMAGES:** Timely delivery is essence of the contract and hence if any consignment be delayed, liquidated damages at the rate 0.5% of the price of the delayed consignment, for each week or part whereof shall be levied and recovered subject to maximum of 0.5% of total purchase order value.

20. **GURANTEE/WARRANTY:** BIDDER should give guarantee/warranty, from the date of Installation, for the performance of the instrument. BIDDER should also give the Non Comprehensive Annual Maintenance for 24 months after the guarantee/warranty is over.

21. **SUPERVISION OF ERECTION & COMMISSIONING:** Successful BIDDER shall depute concerned specialist, for supervision of erection and commissioning of the machine to be carried out. The successful BIDDER shall make necessary arrangement at their own expenses for stay, transport and other expenses of their specialist during their stay in Pune which also



includes imparting training to "Centre for Innovation in Nutrition Health Disease (CINHD)", Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune personnel.

22. TRAINING: The BIDDER shall submit training proposal for the operation and maintenance to the personnel of "Centre for Innovation in Nutrition Health Disease (CINHD)", Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune-411 043. General training session for staff and students should be conducted by the BIDDER.

23. LEGAL MATTER: All Domestic and International disputes are subject to Pune Jurisdiction only.

24. If BIDDER is not quoting directly, name and address of agents and representatives in India should be disclosed.

25. The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

26. While submitting bid the Bidder Shall deposit an amount in tender notice a Earnest Money Deposit, with the Buyer through: Bank Draft/ Pay Order/ Bank Guarantee in favour of the Bharati Vidyapeeth Deemed University, Pune.

27. The Earnest Money shall be valid up to a period of 180 days or the complete conclusion of the contractual obligations to the complete satisfaction of both the Bidder and Buyer, including warranty period, whichever is later.

28. In case of unsuccessful BIDDER, earnest money deposit will be returned within 90 days after the tender process is complete. No interest shall be payable by the BUYER to the BIDDER on Earnest Money Deposit.

29. In case successful BIDDER, EMD will be returned after Performance Guarantee Bond.

30. The BIDDER undertakes that it has not supplied/is not supplying similar products/ systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India or PSU and if it is found at any stage similar product/ system or subsystem was supplied by the BIDDER to any other Ministry/ Department of the Government of India or PSU at a lower price, then that very price, with due allowances for elapsed time, will be applicable to the present case and difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.



## **ANNEXURE- A**

### **Specification of “Fully Automated Hematology analyser”**

<b>Technical specification</b>	<b>Description</b>
Application	Hematology of laboratory animals
Species	Rat, Mouse, Rabbit, 3 User-defined
Parameters	Minimum 12 parameters - WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PDW, PCT
Sample type	Whole blood / pre-diluted
Sample volume	10 – 20 µl
Printer	Internal thermal printer
Operating environment	15 to 30 °C
Power requirement	AC 100-240V, 50/60Hz
Display	Touch screen, LCD/equivalent
Warranty	1-3 years
Reagents (optional)	Should be separately quoted



**ANNEXURE- A**  
**Specification of “Homogenizer - Colloidal mill”**

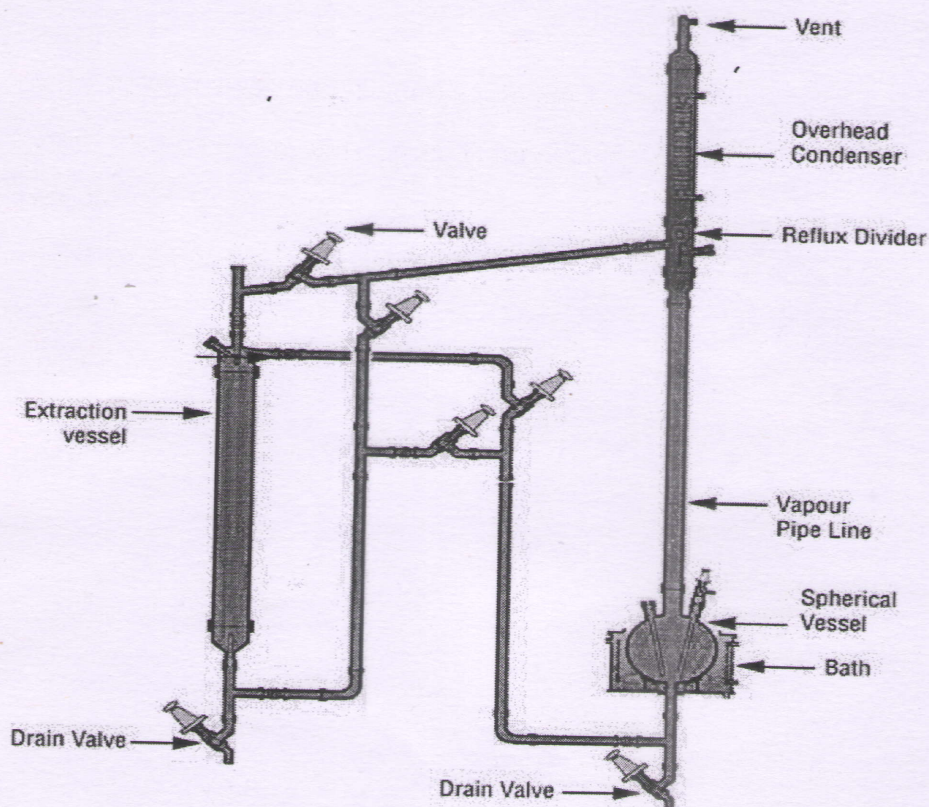
Technical specification	Description
Application	Mixing, Emulsification, Homogenisation, Particle size reduction of liquid, viscous liquid, suspensions or semi-solid liquid
Type of instrument model	Laboratory scale (R and D model)
Product contact parts	SS
Electrical Motor Capacity	1 HP (Minimum)
Rotor Speed	2500 and above
Operating Temp	Upto 150 °C
Hoper capacity	2.5 – 5 Litter
Particle size reduction	Up to micron- 5 to 10
Type of colloid mill	Water Jacketed
Safety features	Overload relay controls and Emergency stop
Warranty	1-3 years
Note: <ul style="list-style-type: none"> <li>• Photos of Equipment, layout/design of equipment must be provided</li> <li>• Packing, Insurance, Installation, Commissioning, Training – All charges must be included</li> </ul>	



**ANNEXURE- A**  
**Specification of “Solvent extractor (Solid Liquid Extraction unit)”**

Technical specification	Description
Application	Solid Liquid Extraction
Type of instrument model	Laboratory scale (R and D model)
Type of material	Glass fabricated unit as per typical design provided
Reactor Capacity	<ul style="list-style-type: none"> <li>• 10 Lit</li> <li>• 20 Lit</li> </ul>
Extraction Vessel Capacity	<ul style="list-style-type: none"> <li>• 10 Lit</li> <li>• 20 Lit</li> </ul>
Note: <ul style="list-style-type: none"> <li>• Photos of fabrication unit, layout/design must me provided</li> <li>• Packing, Insurance, Installation, Commissioning, Training – All charges must be included</li> <li>• Quotation for both capacity (10 Lit and 20 Lit) required in same financial bid</li> </ul>	

**Typical design of Solid Liquid Extraction unit given below:**





## ANNEXURE- A-Specification of "Gas Chromatography"

Technical specification	Description
Application	<p>Gas Chromatography System for the analysis of Fatty acid</p> <p>The instrument should be compatible to computer and software should be Window 10 or latest.</p> <p>The GC should have provision to accommodate 2 injectors and 2 detectors</p> <p>Should have capabilities to control different temperature ramps and plateau</p> <p>All parameters should be stored as a part of method for better analysis reproducibility</p> <p>System should have maximum two injectors and two detectors</p> <p>GC system should have minimum 4 methods storing capacity</p>
Injector	Should be supplied with split/splitless injectors having working temperature up to 400°C or more
Gas Flow control	<p>Must come standard with programmable pneumatic control</p> <p>Digital Pneumatic Control for setting column flow with pressure, flow and linear velocity</p>
Detector	<p>Flame ionisation detector Maximum temperature: <math>\geq 450^{\circ}\text{C}</math>, Temperature setting - <math>1^{\circ}\text{C}</math> steps, Sensitivity : <math>\leq 1.5 \text{ pg C/sec}</math>. FID should have minimum gas Consumption</p>
GC Oven	<p>All temperature and time functions should be micro-processor controlled and displayed on the screen, column over-heat protection, should be settable up to <math>450^{\circ}\text{C}</math>, set point resolution must be at least <math>1^{\circ}\text{C}</math> and cool down time from <math>250^{\circ}\text{C}</math> to <math>50^{\circ}\text{C}</math> is less than 4.8 min or better</p> <p>Cool down rate: <math>400^{\circ}\text{C}</math> to <math>50^{\circ}\text{C}</math> in 5 minutes or in lesser time</p>
Software	<p>Compatible with Latest Windows operating system with seamless integration and control of all the GC parameters.</p> <p>Should be provided with Software performing data analyses, calibration, blank correction, data import, export, handling and reporting, quality control protocols</p> <p>All parameters should be stored as a part of method for better analysis reproducibility</p> <p>License copy of Software should be supplied along with GC system</p>
Complete GC Installation Kit	Installation accessory kit, complete with SS 316 tubing, spanners, metal tube cutter, screw driver, wrench, snoop leak detector, fuses, ferrules, nuts, fuses, septa, jet tool etc.
Training	<p>Comprehensive user/maintenance training should be there.</p> <p>Complete Installation and Demonstration required. Detailed circuit diagram, service manual, troubleshooting guidelines and operation manual to be provided</p>
Warranty/Guarantee	1-3 years
Power Supply	230 V AC $\pm 10\%$ , 50/60 Hz.



**ANNEXURE- A**  
**Specification of “Stability chamber”**

Technical specification	Description
Construction	Interior and Exterior made of Stainless Steel Trays - Stainless Steel trays
Control System	PLC/PID
Temperature Range	10 <sup>0</sup> C to 60 <sup>0</sup> C
Humidity Range	20% to 95% RH 25°C / 60% RH, 30°C / 65% RH, 30°C / 75%RH, 40°C / 75%RH
Temperature and Humidity Accuracy	± 0.2 <sup>0</sup> C / ± 2% RH
Capacity	300-400 Lit
Number of trays	Minimum 3
Sensor	Temperature in degree Celsius and Humidity in % RH with 0.1°C and 0.1% RH resolution
Safety	Unit should be provided with safety devices for high and low temperature and high humidity in case of malfunction
Supplementary accessory	Compatible voltage stabilizer 5 KVA
Training	Comprehensive user/maintenance training should be there. Complete Installation and Demonstration required. Detailed circuit diagram, service manual, troubleshooting guidelines and operation manual to be provided.
Warranty/Guarantee	1-3 years
<ul style="list-style-type: none"> <li>Note: Packing, Insurance, Installation – All charges must be included</li> </ul>	