

DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR, (M.P)
(A Central University)

SOPHISTICATED INSTRUMENTATION CENTER (SIC)

TENDER NOTICE

No.R/SIC/ Ultrapure/ 2016 -17/273

Dated 17.10.2016

The University invites sealed Tenders from the Manufacturers/ authorized dealers for purchase of **Ultrapure water purification system.**

The complete technical details with specification of item(s), Eligibility, Tender document Fee, Address and procedure of tender are available at the University website **www.dhgsu.ac.in**. The last date for submission of tender on or before 16.11.2016 address to the office of : In-charge, Sophisticated Instrumentation Center (SIC) strictly by Speed/ Registered Post only. For any query please feel free to contact us on 07582-265964.

Registrar

DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR, M.P.
SOPHISTICATED INSTRUMENTATION CENTER

**TENDER FOR SUPPLY OF ULTRAPURE WATER PURIFICATION SYSTEM AND
ACCESSORIES**

Cost of tender: Rs.500 /-
(Non-Refundable)

No.R/SIC/Ultrapure / 2016 -17/

- | | | |
|---|---|--|
| (1) Last Date for submission of complete Tender (s) | : | 16-11-2016 |
| (2) Opening Date for Tenderø Technical Bid | : | 29-11-2016 |
| (3) Venue for Submission of Tender : | | In-charge, SIC
Sophisticated Instrumentation Center
Dr. Harisingh Gour Vishwavidyalaya,
Sagar (M.P.), India, 470003 |
| (4) Opening of Technical Bids | : | Venue: same as (3) above |
| (5) Opening of Financial Bids | : | Will be communicated later. |

Changes if any, in schedule will be displayed on the website at www.dhgsu.ac.in. No intimation shall be sent individually. Bidders are requested to keep checking the website for any changes in Venue and time of opening of the bids.

DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR, M.P.
SOPHISTICATED INSTRUMENTATION CENTER

1) Tender Notice

The Sophisticated Instrumentation Center (SIC), Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) invites sealed tenders from manufacturers/suppliers for Ultrapure Water purification system.

(Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P. is an Autonomous Body under the Ministry of Human Resource Development, Govt. of India)

The following documents giving full details are enclosed:-

- 1) Annexure-I - Details of the items required
- 2) Annexure-II- General Terms and Conditions including eligibility conditions.
- 3) Annexure-III Proforma for Technical Bid and Undertaking.
- 4) Annexure-IV-Proforma for Undertaking.
- 5) Annexure-V-Proforma for Financial Bid

2) Schedule:

- a) Due date and time of receipt of tender: **Dt. 16-11-2016**
- b) Address for submission of tender: SIC In Charge,
Sophisticated Instrumentation Center
Dr. HarisinghGourVishwavidyalaya, Sagar
(M.P.), India, 470003
- c) Opening of Technical Bids: 15:15 hours on Dt. **29-11-2016**
Venue: same as (b) above

d) Opening of financial bid will be communicated later

3) The tender documents can only be downloaded from the website of the Vishwavidyalaya: www.dhsgsu.ac.in

4) The tender, complete in all respect, must be received in the designated office before the due time and on or before the due date. The tenders received after the due date and time will not be considered. All tenders sent by registered/speed post must be received in the designated office before due time on the due date. This office shall not be responsible for any kind of delay in submission of the tender.

5) The tender is not transferable. Only one tender shall be submitted by one Supplier.

DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR, M.P.
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Annexure I

DETAILS OF THE ITEMS REQUIRED:

No.R/SIC/Ultrapure/ 2016 -17/273

Single Integrated System should be capable of producing type II (10-15 Megaohm resistivity) and type I (18.2 Má resistivity) directly from tap water. The feed water acceptance should be up to 2000 µs conductivity, Fouling Index (SDI) < 20, Total Chlorine < 3 ppm.

To guarantee compliance with minimum laboratory safety requirements, and to ensure that the water purification system meets internationally-recognized safety norms, the water purification system shall be listed with Underwriters Laboratories (both UL and ULC), and will carry the CE mark, indicating compliance with EC Directives.

STAGE 1	2 Stage pretreatment system
PREFILTER	5 micron and 1 micron wrapped type depth filter
	Less than 50 Db noise levels
	Automatic low/high pressure cut off
	DC pump with 0-2 pressure at 120L /hr
	Inlet screen filter to DC pump
	Optional: 0.5 or 1 µm pleated filter with high particulate retention capacity and Activated carbon
STAGE 2	The system should have inbuilt pretreatment containing ultra micro filter, anti scaling compound, activated carbon etc
	RO should have conductivity measurements before and after the membrane (high flux thin film composite polyamide membrane material)
	Should have recovery loop to reduce water consumption.
	Mixed bed ion exchange resin filled electro deionization module with auto regeneration by a weak electric current, eliminating the need for chemical regeneration or replacement of DI resin cartridges.

	Electro deionization should not require additional pre-treatment for softening.
	UV lamp 254 nm to remove germicidal effect before entering the tank
	The system should have optional facility to deliver Type II Water flow rate @ 2l/min using Volumetric dispensing arm with 0.22 micron filter which can be put at 3 m distance long.
STAGE 3	The tank should fill from the bottom
	Should possess a tank vent filter made of soda lime, activated carbon and 0.22 micron hydrophobic membrane to trap contaminants present in atmospheric air.
	PE reservoir with opaque walls having at least 30 liter capacity
STAGE 4	Low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm) .
	Application Specific cartridges with RFID tag to remove ionic and organic contaminants to trace levels
	Built in TOC monitor with a 0.5mL Quartz cell and UV lamp which accurately measures TOC online from 1-999ppb
STAGE 5	Water production unit that can be placed either on the bench , under the bench or on the wall Stand alone point of delivery unit with 1. Adjustable height and rotating arm [360°] - adjustable to any glass ware. 2. Multi colour monitor displaying : resistivity, TOC, level of water in reservoir, volume dispensed and other alarms, printing to be directly accessible from the point of delivery unit
	Pharmaceutical grade, final filter with 0.22μ membrane filter in stack disc configuration.
	Activated carbon pak for Volatile organic free water applications.
	Disposable UF cartridge at the collection end with LRV is between 5 and 7 over challenge range of 220 and 22000 Eu / mL
	C18 filled pak for trace organic applications designed for LC-MS / UPLC applications
	Separate External dispensers for easy delivery of ultrapure and pure water with display. Manual or automatic volume delivery as per requirement.

	Point of delivery unit with the polishing filters at the point of use with an Option of connecting 3 units with the main water producing unit
	Application packs (Optional)- Water for critical applications or specialized applications based on different instruments and analysis. For example ICP-MS, UPLC, LC-MS, IC, Rnase/Dnase free water, GC-MS
	System should contain inbuilt Data management system/ software with record keeping capabilities and a powerful search engine to retrieve data on water quality and system performance.
Documents required	Should submit proof of minimum 350 water purification system installations in India. Should submit Water quality compliance report as per ASTM and ISO. System should come with a simplified manual briefing on the performance, alarms and measures attached to the system

Pure (Type II) water:

Particulates< 0.22 µm (/ mL)< 1
TOC (ppb)< 30
Production Flow Rate (L/hr)..... 10L
Bacteria..... < 1 cfu/ml(with remote dispensing arm)
Resistivity.....10- 15 MΩ
Pyrogens< 0.001 EU/ml (With optional UF cartridge)

UltraPure (Type I) water:

Ultrapure Water (Type 1) Flow Rate (L/min).....0.05 to 2(Programmable flow rate)
Ultrapure Water Resistivity (MΩ·cm at 25°C).....18.2
Microorganisms (cfu/mL).....< 1
Particulates < 0.22 µm (/ mL).....< 1
Pyrogen Levels (EU/mL)<0.001
RNase Level (ng/mL)< 0.01
DNase Level (pg/µL)< 4
TOC (ppb)< 5

DR. HARISINGH GOUR VISHWAVIDYALAY, SAGAR, M.P.
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ANNEXURE 6II

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GENERAL TERMS AND CONDITIONS INCLUDING ELIGIBILITY.

1) Parties:

The parties to the Contract are the Tendering Firm and Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)

2) Addresses:

For all purposes of the contract including arbitration there under, the address of the firm mentioned in the tender shall be final unless the firm notifies a change of address by a separate letter sent by Speed Post/ registered Post with acknowledgement due. The firm shall be solely responsible for the consequences of any omission or error to notify change of address in the aforesaid manner.

3) Preparation and Submission of Tender:

The tender should be submitted in two parts viz. Technical Bid and Commercial Bid in the proforma given in Annexure-III and Annexure-V respectively with each Bid kept in a separate sealed cover. Each cover must contain the address of the Bidder, and should be subscribed with the statement "Technical Bid" and "Commercial Bid", as the case may be. **These two covers should then be kept in an another sealed cover addressed to:**

**In Charge, SIC
Sophisticated Instrumentation Centre (SIC)
Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.), India, 470003**

This sealed cover should be duly subscribed with the statement "TENDER FOR SUPPLY OF ULTRAPURE WATER PURIFICATION SYSTEM AND ACCESSORIES at Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P."

4) Signing of Tender:

Individual signing the tender or other documents connected with contract must specify whether he/she signs as:

- a) A sole proprietor of the firm or constituted attorney of such sole proprietor;
- b) A partner of the firm, if it be a partnership firm, in which case he must have authority to execute contracts on behalf of the firm and to refer to arbitration disputes concerning the business of the partnership either by virtue of the partnership agreement or by a power of attorney duly executed by the partners of the firm.
- c) Director or a principal officer duly authorized by the Board or Directors of the Company, if it is a company.
- d) A person signing the tender form or any documents forming part of the tender on behalf of another person should have an authority to bind such other person and if, on enquiry

it appears that the persons so signing had no authority to do so, Sophisticated Instrument Center of the Vishwavidyalaya shall, without prejudice, cancel the contract and hold the signatory liable for all costs, consequences and damages under the civil and criminal remedies available.

- e) The tenderer should sign and affix his/her firm's stamp at each page of the tender and all its Annexure as the acceptance of the offer made by the tenderer will be deemed as a contract and a formal agreement will also be drawn regarding the contract.

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5) Technical Bid

The Technical bid should be submitted in form given in Annexure-III.

All columns of the proforma should be filled and accompanied by DDs towards Earnest Money Deposit, cost of tender paper and documentary evidence/brochure etc. in support of the information provided against different columns, failing which the Bid would be liable for cancellation.

6) Commercial Bid:

6.1 The Commercial Bid should be submitted in form given in Annexure-V. The Commercial Bids of only those bidders who are short-listed after evaluation of Technical Bids will be opened. A Committee constituted by the Vice -Chancellor will evaluate the Technical Bids and Commercial bids.

6.2 A consolidated price should be quoted for the item along with its break up showing different items of charge. The consolidated price quoted shall be firm and final and payable for the goods delivered, installed and commissioned at the location communicated by the Vishwavidyalaya. No payments other than the amount shown as consolidated price shall be made by the Vishwavidyalaya. If any statutory levy is found applicable, the same shall be borne by the tendering firm. The only deviation to the preceding statement could be the levies revised upward or introduced by State or Central Government after the submission of the tender by the bidder, in which case the Bidder shall produce documentary evidence. The total consolidated price quoted shall be the basis for determining L-1.

6.3 At the time of payment of bills, the Income Tax, if any, shall be deducted at source as per Government Rules and guidelines as may be prevailing at the time of payment.

7) Validity: The bids shall be valid for a period of **90 days** from the date of opening of the tenders.

8) Opening of Tender: The Technical bids shall be opened on **29.11.2016 at 15:15 P.M.** in Sophisticated Instrument Center (SIC), Dr. Hari Singh Gour Vishwavidyalay .The tenderer is at liberty to attend either himself or authorize not more than one representative to be present at the opening of the tender. The representative attending the opening of the tender on behalf of the tenderer should bring with him a letter of authority from the tenderer and a proof of identification. Those who will qualify in Technical Bid evaluation shall be intimated on phone/ by fax/by e-mail.

9) Criterion for Evaluation of Tenders:

1. *Subject to the fulfillment of technical specifications mentioned in the tender document*

The Commercial Bid of only those firms that are found eligible based on technical parameters and eligibility conditions will be opened. Any inferences drawn by the tenderers or their representatives during the opening

of the Technical Bid will be their own view and The Registrar, Dr. Harisingh Gour Vishwavidyalaya will not be responsible and required to abide by the same. **The reasons for selection or rejection of a particular tender will not be disclosed.**

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10) Right of Acceptance:

10.1 Sophisticated Instrumentation Center (SIC), of the Vishwavidyalaya reserves all rights to reject any tender including of those bidders who fail to comply with the instructions without assigning any reason whatsoever and does not bind itself to accept the lowest or any specific tender. The decision of the Vishwavidyalaya in this regard shall be final and binding.

10.2 Any failure on the part of the bidder to observe the prescribed procedure and any attempt to canvas for the purchase order will prejudice the firm's quotation.

11) Communication of Acceptance:

Successful bidder will be informed of the acceptance of his bid by speed post/ fax/ e-mail.

12) Time Schedule for supply of SYSTEM:

The supply must be completed within **30 (Thirty)** days of receipt of the Purchase Order. Part supply will be allowed.

13) Penalty:

In the event of the firm failing to:

- (i) Observe or perform any of the conditions of the Purchase order as set out herein; or
- (ii) Execute the order in good condition to the satisfaction of Sophisticated Instrumentation Center (SIC), Department of the Vishwavidyalaya.
- (a) It shall be lawful for SIC Department of the Vishwavidyalaya, in its discretion, in the former event to remove or withhold any part of the order until such times as it may be satisfied that firm is able to do and will duly observe the said conditions and in the latter event to reject or remove as the case may require any order executed otherwise than in a good condition and to the satisfaction of Sophisticated Instrumentation Center (SIC), Department of the Vishwavidyalaya and by the time fixed by it and in both or either of the events aforesaid to make such arrangements as it may think fit for the execution of the order so removed or order in lieu of that so rejected or removed as aforesaid on account and at the risk of the firm.
- (b) Provided further that if in either event any excess cost be incurred by reason of the difference between the prices paid and the accepted rates, SIC Department of the Vishwavidyalaya may charge the amount of such excess cost to the firm and the same may at any time thereafter be deducted from any amount that may become due to the firm under this or any other contract or may be demanded of him to be paid within seven days to the credit of the Vishwavidyalaya.
- (c) In the event of discovery of any error or defect due to the fault of the firm/vendor at any time after the delivery of goods ordered, the firm/vendor shall be bound, if called upon to do so, to rectify such error or defect at his own cost to the satisfaction of and within the time fixed by the Vishwavidyalaya. In the event of the delivery of any defective work, which owing to urgency or for any other reason cannot be wholly rejected, the Vishwavidyalaya shall have the power to deduct from any payment due to the firm such sum as it may deem expedient. In the event of work being wholly rejected Sophisticated Instrumentation Center (SIC), Department of the Vishwavidyalaya may at its discretion.
 - (i) Permit the firm/vendor to re-do the same within such time as it may specify at firm's own cost of all sorts i.e. materials, labour, equipments, overheads, transportation etc; or
 - (ii) Arrange to get the additional work done elsewhere and by any other person or from any other

source than the firm/vendor in which case the amount of extra cost, if any, shall be recovered from the contractor in the manner provided in sub-clause(b) of this clause.

14) Breach of Terms and Conditions:

In case of breach of any of terms and conditions mentioned above, the Competent Authority will have the right to cancel the work order without assigning any reason thereof and nothing will be payable by the Vishwavidyalaya in that event.

15) Tolerance Clause:

- a. Vishwavidyalaya, the purchaser reserves the right to place the orders on the successful tenderer for any additional quantity at the same rates quoted by the bidder. At the option of the purchaser, the quantity can also be reduced when felt necessary.
- b. The tenderers are bound to accept the orders for additional/less quantity under this clause if orders are issued at the time of placement of contract, or during the currency of the contract.
- c. The withdrawal of any slab rates after opening of tender will render entire tender invalid and invite action which may result banning of business dealing with firms/suppliers including in such practices, besides forfeiture of the Earnest Money Deposits.

18) Terms of Payment:

- Material is to be supplied by the tenderer F.O.R at Dr. Harisingh Gour Vishwavidyalaya, Sagar on specified address.
- All payments shall be made by TT mode only after satisfactory supply, and certification from SIC. **The Bank details may be provided for payment.**
- SIC, Department of the Vishwavidyalaya shall be at liberty to withhold any of the payments in full or in part subject to recovery of taxes including TDS as applicable and recovery of penalties mentioned in preceding Para.
- The term "payment" mentioned in this Para includes all types of payments due to the firm/vendor arising on account of this contract.
- Payment from Purchaser shall be made by electronic fund transfer to the supplier's account by NEFT or RTGS for which purpose suppliers are expected to submit their complete bank details as under:-

1.	Name of Bank	
2.	Address of the Branch	
3.	RTGS/IFS Code	
4.	Bank A/c No.	
5.	Type of A/c	
6.	MCIR code	
7.	Mobile No	

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SOPHISTICATED INSTRUMENTATION CENTER (SIC)

19) Eligibility conditions:

- The supplier must be either itself a manufacturer or authorized vendor of the manufacturer;
- The Tenderer must have PAN/TIN No. and VAT Registration No. and must submit legible attested copies of PAN/TIN No. and VAT Registration No. with Technical Bid. Technical Bid not accompanied by these documents would be summarily rejected. The bidder /registered dealer of the bidder should not have any dispute pending with the University at any level.

20) General:

- 20.1** The manufacturer must submit pre-receipted Bill for payment after satisfactory supply and installation of the product at the locations Ordered.
- 20.2** Any violation of the terms and conditions or supply of inferior quality of material shall result in total rejection of the items apart from taking appropriate remedial action at the risk and cost of the bidder.
- 20.3** The receipt of the Purchase Order should be acknowledged by return post.
- 20.4** The decision of competent authority i.e., Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar in any matter of dispute shall be final and binding.

21) Earnest Money Deposit (EMD):

The Technical Bid must be accompanied by Earnest Money Deposit of **Rs.50,000/-** (Rupees fifty thousand only) submitted in the form of Demand Draft/FDR drawn on any Nationalized Bank in favour of Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar and payable at Sagar (MP). While the EMD of other vendors would be returned immediately after a decision on identification of a vendor is completed. The EMD of the selected vendor shall be returned after the Vendor has supplied and installed the materials at the locations indicated in the Purchase Order or adjusted in the **Performance Security. No interest will be payable on the EMD.**

22) Performance Security:

The vendor selected would be required to furnish a Performance Security equal to 5% of Purchase Order (P.O) of total cost in the form of Demand Draft/FDR/Bank Guarantee from any Nationalized Bank in favour of Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar payable at Sagar, MP. In case the Performance Security is submitted in the Form of Bank Guarantee the same should be valid for a period of 2 (two) months beyond the date of expiry of Warranty Period of the equipment.

23) Cost of tender document:

The bidders will be required to deposit cost of Tender amounting Rs. 500/- (Rupees five hundred Only) to be placed in the Technical Bid in the shape of separate DD/BC in favour of Registrar, Dr. Harisingh Gour Vishwavidyalaya, Sagar payable at Sagar, MP. This amount is non-refundable.

Tender documents can be downloaded from website of the University i.e. www.dhsgsu.ac.in. Documents downloaded from website shall be accompanied by DD as mentioned in point no (23). Documents should be complete in all aspects. Incomplete documents will be rejected.

24) Liquidated damages:

If a firm accepts an offer and fails to execute the same, in full or part, as per the terms and conditions stipulated therein, it will be open to this institute to recover liquidated damages from the firm @ 1% of the value of undelivered stores per week or part thereof subject to a maximum of 5% of the value of the undelivered stores. It will also be open to this institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the firm which accepted and then failed to execute the order according to stipulation agreed upon.

25) Warranty:

- (i) Equipment covered under this tender , when purchased and installed , shall be warranted for the quality , workmanship , trouble free operation and performance for a period of **at least 36 months including company's own warranty period from the date of putting the system into operation at the University** . If any item(s) under warranty fails, the same shall be replaced free of cost including the applicable charges including Transportation cost both way. However, it shall be obligatory on the part of OEM/ Bidder to extend the support for at least next five years after the warranty period.
- (ii) Complete technical specifications and literature including process flow to be included with the quotation. Manufactures of various major parts/equipment must be mentioned explicitly.
- (iii) A clear statement regarding availability of after sales service and availability of spare parts for next 5 to 10 years should be enclosed.
- (iv) A recent customer list along with their authorized representation with contact details including email address is to be submitted with technical bid.
- (v) If an order is placed with the firm, the purchase shall be governed by an arrangement as per the GFR and University rules in force at the time.
- (vi) To safe guard the interests of the University, GFR, additional terms & conditions will be incorporated in the purchase order if needed.
- (vii) **Dispute** – In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.

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ANNEXURE-III

No.R/SIC/Ultrasure/ 2016 -17/273

Technical Bid

TECHNICAL INFORMATION AND
UNDERTAKING

1.	Name & Address including e-mail	.....
	ID and Telephone contact details of the Bidder/Concern.	.....
2.	Nature of Concern (i.e. Proprietor or Partnership firm or a Company or State/Central Govt. Autonomous Body/PSU, etc.). Please enclose documentary evidence e.g. Registration/Incorporation Certificate etc.	.....
3.	Whether each page of Tender Document and its Annexures, have been signed stamped and enclosed	.....	YES/NO
4.	Whether ready to supply the material within the period given by the Institute	.....	YES/NO
5.	Whether the tenderer is black listed for supplying any item by Vishwavidyalaya or any of the Central / State Government Department/ Institution or otherwise penalized.	.....	YES/NO
	Whether any dispute is pending with the tenderer in any of the Department or in any Court If Yes, give the status of the dispute/ case	.....	YES/NO
6.	Whether evidence to show that the manufacturer/supplier has been in the business of supplying ultrapure water purifier system for at least 5 years is attached with the technical bid	.....	YES/NO
7.	[i] Whether supplier is the manufacturer himself	.....
		
8	Whether self attested legible copies of their	.....	YES/NO

	PAN/TIN No. and VAT attached with the technical bid		
9	Whether undertake to respond to service calls within two working days	.....	YES/NO
10	<u>Details of EMD submitted</u>	.....	YES/NO
	DD No:	.....
	Date:	.....
	Bank Name:	.....
	Amount: Rs. í í í í í í í í í ..		
	In Favour of Payable at:	.....
11.	Details of Cost of Tender fee submitted	.....	YES/NO
	DD No:	.....
	Date:	.....
	Bank Name:	.....
	Amount: Rs. í í í í í í í í í ..		
	In Favour of Payable at:	

Signature (with Stamp).....

Name.....

Designation.....

Company Seal.....

Date:

Place:

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UNDERTAKING

Annexure IV

(To be printed on the letter-head of Tenderer)

No.R/SIC/Ultrasure/ 2016 -17/273

1. I/We undertake that I/We have carefully studied all the terms and conditions and the proposed purchase order understood the parameters of ultrapure water purifier system and shall abide by them.
2. I/We also undertake that I/We have understood "Parameters and Technical Specifications terms and conditions for executing the Order" mentioned in this Tender, and shall conduct the work strictly as per these "Parameters and Technical Specifications".
3. I/We further undertake that the information given in this Tender are true and correct in all respect and we hold the responsibility for the same.
4. I/We also undertake that the materials to be supplied will be in accordance with specifications given in the Annexure I to the Tender Document and I/We shall be responsible for rejection/cancellation of contract if the materials are not found up to the mark or for civil/criminal proceedings if the material supplied is found sub-standard. We also undertake to incur the costs necessary for the tests or any other certification required by the Vishwavidyalaya, to confirm the compliance of the product with the specifications cited in the Notice for Tender.

Signature (with Stamp).....

Name.....

Designation.....

Date: Place:

Company Seal.....

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ANNEXURE-V

No.R/SIC/Ultrapure/ 2016 -17/

Commercial Bid

Single Integrated System should be capable of producing type II (10-15Megaohm resistivity) and type I (18.2 Má resistivity) directly from tap water. The feed water acceptance should be up to 2000 µS conductivity, Fouling Index (SDI) < 20, Total Chlorine < 3 ppm.

To guarantee compliance with minimum laboratory safety requirements, and to ensure that the water purification system meets internationally-recognized safety norms, the water purification system shall be listed with Underwriters Laboratories (both UL and ULC), and will carry the CE mark, indicating compliance with EC Directives.

1. STAGE 1	2 Stage pretreatment system
PREFILTER	5 micron and 1 micron wrapped type depth filter
	Less than 50 Db noise levels
	Automatic low/high pressure cut off
	DC pump with 0-2 pressure at 120L /hr
	Inlet screen filter to DC pump
	Optional: 0.5 or 1 µpleated filter with high particulate retention capacity and Activated carbon
STAGE 2	The system should have inbuilt pretreatment containing ultra micro filter, anti scaling compound, activated carbon etc.
	RO should have conductivity measurements before and after the membrane (high flux thin film composite polyamide membrane material)
	Should have recovery loop to reduce water consumption.
	Mixed bed ion exchange resin filled electro deionization module with auto regeneration by a weak electric current, eliminating the need for chemical regeneration or replacement of DI resin cartridges.
	Electro deionization should not require additional pre-treatment for softening.
	UV lamp 254 nm to remove germicidal effect before entering the tank.
	The system should have optional facility to deliver Type II Water flow rate @ 2l/min using Volumetric dispensing arm with 0.22 micron filter which can be put at 3 m distance long.
STAGE 3	The tank should fill from the bottom.
	Should possess a tank vent filter made of soda lime, activated carbon and 0.22 micron hydrophobic membrane to trap contaminants present in atmospheric air.
	PE reservoir with opaque walls having at least 30 liter capacity
STAGE 4	Low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm) .
	Application Specific cartridges with RFID tag to remove ionic and organic

	contaminants to trace levels
	Built in TOC monitor with a 0.5mL Quartz cell and UV lamp which accurately measures TOC online from 1-999ppb
STAGE 5	Water production unit that can be placed either on the bench, under the bench or on the wall Stand alone point of delivery unit with 1. Adjustable height and rotating arm [360°] - adjustable to any glass ware. 2. Multi colour monitor displaying : resistivity, TOC, level of water in reservoir, volume dispensed and other alarms, printing to be directly accessible from the point of delivery unit
	Pharmaceutical grade, final filter with 0.22µ membrane filter in stack disc configuration.
	Activated carbon pak for Volatile organic free water applications.
	Disposable UF cartridge at the collection end with LRV is between 5 and 7 over challenge range of 220 and 22000 Eu / mL
	C18 filled pak for trace organic applications designed for LC-MS / UPLC applications
	Separate External dispensers for easy delivery of ultrapure and pure water with display. Manual or automatic volume delivery as per requirement. Point of delivery unit with the polishing filters at the point of use with an Option of connecting 3 units with the main water producing unit
	Application packs (Optional)- Water for critical applications or specialized applications based on different instruments and analysis. For example ICP-MS, UPLC, LC-MS, IC, Rnase /Dnase free water, GC-MS
	System should contain inbuilt Data management system/ software with record keeping capabilities and a powerful search engine to retrieve data on water quality and system performance.
Documents required	Should submit proof of minimum 350 water purification system installations in India. Should submit Water quality compliance report as per ASTM and ISO. System should come with a simplified manual briefing on the performance, alarms and measures attached to the system

Pure (Type II) water:

Particulates < 0.22 µm (/ mL) < 1
TOC (ppb) < 30
Production Flow Rate (L/hr) 10L
Bacteria < 1 cfu/ml (with remote dispensing arm)
Resistivity 10- 15 MΩ
Pyrogens < 0.001 EU/ml (With optional UF cartridge)

UltraPure (Type I) water:

Ultrapure Water (Type 1) Flow Rate (L/min) 0.05 to 2 (Programmable flow rate)
Ultrapure Water Resistivity (MΩ·cm at 25°C) 18.2
Microorganisms (cfu/mL) < 1
Particulates < 0.22 µm (/ mL) < 1

Pyrogen Levels (EU/mL)<0.001
RNase Level (ng/mL)< 0.01
DNase Level (pg/μL)< 4
TOC (ppb)<

Note: The price will be quoted including Excise duty, transportation charge, installation charge and all other applicable taxes.

1.Total consolidated price for each items inclusive of all levies and taxes, freight, insurance, installation, commissioning and all other incidental charges quoted for the work as details given above will Be Rs..... (in words)..... Only) for three years.

2. The above rates are inclusive of delivery charges up to Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)
3. The bid will be valid for a period of 90 days from the date of acceptance of the tender by the Competent Authority.

Signature (with Stamp).....

Name.....

Designation.....

Date:

Place:

