

**DEPARTMENT OF FOOD, CIVIL SUPPLIES & CONSUMER  
AFFAIRS GOVERNMENT OF HIMACHAL PRADESH- SHIMLA**

<b>Online tender for purchase of machineries &amp; equipments for the Departmental Laboratory in the Department of Food, Civil Supplies &amp; Consumer Affairs Himachal Pradesh</b>	
<b>1.</b>	<b>Inductively Coupled Plasma Mass Spectrometer (ICP-MS) along with all accessories and sample preparation facility.</b>
<b>2.</b>	<b>High Performance Liquid Chromatograph (HPLC) with Photodiode Array (PDA), Fluorescence (FLD) and Refractive Index Detector (RID)</b>
<b>3.</b>	<b>Lovibond Tintometer</b>
<b>4.</b>	<b>ELISA Reader with Plate Washer</b>
<b>5.</b>	<b>Dual UV Exposure Chamber</b>
<b>6.</b>	<b>UV-Visible Spectrophotometer</b>
<b>7.</b>	<b>Milli-Q Water Purification System</b>

**(e-Tender No. FDS-24 (Modernization of Lab/2017) Vol-I (T-4)**

**Last date of tender submission: 23.03.2022 upto 05:00 PM**

**Tender Opening Date: 24.03.2022 at 11:00 AM**

**Directorate of Food, Civil Supplies & Consumer Affairs,  
Block No 42, SDA Complex, Kasumpti, Shimla – 171009, H.P.  
Tel. Nos. : 0177- 2623749 Mob: 9418486806  
Email: [dfs-hp@nic.in](mailto:dfs-hp@nic.in),  
Website: <https://food.hp.nic.in>,**

## **Letter for invitation:**

Dear Sir/Madam,

Department of FCS&CA, HP SHIMLA-9 indents to strengthen the Food Testing System in the Himachal Pradesh for which department want to purchase few essential machinery and equipment's from the reputed Original Equipment Manufacturers/Authorized Suppliers in India.

On-line tender is, therefore, invited from reputed manufacturers/Authorized suppliers in India for purchase of these machinery and equipment's on behalf of Food Civil Supplies & Consumer Affairs, HP Shimla as per the details given in the tender document. The bids are to be submitted under a two bid system i.e. Technical and Financial Bids in the prescribed format. Financial bids of only technically qualified bidders would be opened.

Department reserves the right to accept or reject any or all of the offers at any stage of the process without assigning any reason thereof and any claim /dispute on this shall not be entertained.

**Director**  
**Food Civil Supplies & Consumer Affairs, Shimla,**  
**SDA Complex, 42, Kasumpti, Shimla,171009, H.P**

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<b>Abbreviation</b>	<b>Full Form</b>
<b>FCS&amp;CA</b>	<b>Food, Civil Supplies &amp; Consumer Affairs Department</b>
<b>ICP-MS</b>	<b>Inductively Coupled Plasma Mass Spectrometer</b>
<b>HPLC</b>	<b>High Performance Liquid Chromatograph</b>
<b>PDA</b>	<b>Photodiode Array</b>
<b>FLD</b>	<b>Fluorescence Detector</b>
<b>RID</b>	<b>Refractive Index Detector</b>
<b>ELISA</b>	<b>Enzyme-Linked Immunosorbent Assay</b>
<b>UV</b>	<b>Ultra Violet</b>
<b>ppm</b>	<b>parts per million</b>
<b>ppb</b>	<b>parts per billion</b>
<b>ppt</b>	<b>parts per trillion</b>
<b>AMFC</b>	<b>Mass Flow Controller</b>
<b>CRM</b>	<b>Certified Reference Material</b>
<b>RSD</b>	<b>Relative Standard Deviation</b>
<b>SD</b>	<b>Standard Deviation</b>
<b>PTFE</b>	<b>Polytetra fluoro ethane</b>
<b>IQ</b>	<b>Instrument Qualification</b>
<b>OQ</b>	<b>Operation Qualification</b>
<b>PQ</b>	<b>Performance Qualification</b>
<b>NIST</b>	<b>National Institute of Standards and Technology</b>
<b>DL</b>	<b>Detection limits</b>

## 1 INTRODUCTION

The Food Safety and Standards Act, 2006 was enacted in 2006 in order to consolidate all the laws relating with Food to establish the science-based standards for regulating their manufacture, storage, distribution, sale and import, for ensuring availability of safe and wholesome food for human consumption in the state by virtue of the mandate given in the act through Department of Food Civil Supplies & Consumer Affairs, Himachal Pradesh Shimla-9. Further, various regulatory orders under this act were repealed with effect from **5<sup>th</sup> August 2011** and it renamed as The Food Safety and Standards (Rules and Regulations), 2011.

In addition to above, the mandates of the Department of Food, Civil Supplies & Consumer Affairs, Himachal Pradesh is the quality assurance of various food items being distributed to beneficiaries under TPDS System, to follow the latest analysis related guidelines and capacity building of laboratory staff including trained in modern and latest technology related to food analysis. The analysis and dexterity of fortificants as Vitamin B12, A, D, Folic acid and Iron in fortified food items such as wheat atta, double fortified salt, edible oils with the latest sophisticated machinery would be on priority in due course of time.

## 2 SCOPE OF THE WORK:

2.1 The scope of the work is divided into following components:

- a) Providing, Installing and Commissioning Testing of the equipment's along with all accessories and sample preparation facility.
- b) Operation and maintenance of equipment's during the contract period.

### 1.2 Equipment's to be provided:

1.	Inductively Coupled Plasma Mass Spectrometer (ICP-MS) along with all accessories and sample preparation facility.
2.	High Performance Liquid Chromatograph (HPLC) with Photodiode Array (PDA), Fluorescence (FLD) and Refractive Index Detector (RID)
3.	Lovibond Tintometer
4.	ELISA Reader with Plate Washer
5.	Dual UV Exposure Chamber
6.	UV-Visible Spectrophotometer
7.	Milli-Q Water Purification System

**3 DATA SHEET**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Details</b>
1.	Tender No. and Date	FDS-24 (Modernization of Lab/2017) Vol-I (T-4)
2.	Name of the Authority	Director, Food, Civil Supplies and Consumer Affairs Himachal Pradesh
3.	Tender Title	Online tender for purchase of machineries & equipment's for the Departmental Laboratory.
4.	Contact Person	Director, Food Civil Supplies and Consumer Affairs Himachal Pradesh
5.	Tender document Fee (Non-Refundable)	<b>Rs 5,000/-</b> (payment to be made through Bank draft in the name of Director, Food Civil Supplies and Consumer Affairs Himachal Pradesh)
6.	Bid Processing Fee (Non-Refundable)	<b>Rs 10,000/-</b> (payment to be made through Bank draft in the name of Director, Food Civil Supplies and Consumer Affairs Himachal Pradesh)
7.	EMD (Earnest Money Deposit)	<b>Rs 5,00,000/-</b> (payment to be made through Bank draft in the name of Director, Food Civil Supplies and Consumer Affairs Himachal Pradesh)
8.	Date of publishing of bid	Date 02-03-2022 till 12.00 PM
9.	Pre-Bid Meeting	Date 08-03-2022 at 03.00 PM (Maximum of two representatives of each Bidder shall be allowed to participate on production of a letter from the Bidder)
10.	Bid Submission Start Date	Date 02-03-2022 by 12.30 PM
11.	Bid Submission end date	Date 23-03-2022 at 5:00 PM

12.	Tender opening date and time	Date 24-03-2022 at 11:00 AM
13.	Opening of Financial Bids	Financial bids will be opened after Technical evaluation of the bids for successful Bidders only. The schedule will be intimated to the successful Bidders after technical evaluation.
14.	Validity of Bids	The bids shall remain valid for a period of a minimum of 180 (One Hundred and Eighty) days from the last date of submission.
15.	Approximate Quantity of articles	1 each
16.	The estimated cost of the Project (per annum)	Rs. 1.50 crore (approx.)
17.	Method of Selection:	<ul style="list-style-type: none"> <li>• Selection of the Bidders will be a two stage process. In the first stage the Bidders will be pre-qualified based on the compliance to specification and other requirement mentioned in the Technical Bids. The bids of only the technically qualified bidders will be considered for opening the Financial Bid.</li> <li>• L1 bidder will be selected from among the technically qualified bidder. Rate contract would be signed only with L1 bidder.</li> </ul>
18.	Criteria for submission of online bid	<ul style="list-style-type: none"> <li>• The Bidder must submit Technical bid (Duly Page Numbered) and the Financial Bid in separate attachment. Bids received in single attachment will be summarily rejected.</li> <li>• The Technical bid must not contain any pricing information. If the technical bid contains any commercial information, the bid is liable to be rejected. In submitting additional information, please mark it as “supplementary” to the required response. If the Bidder wishes to propose additional services (or enhanced levels of services)</li> </ul>



		<p>beyond the scope of this tender, the bid must include a description of such services as a separate and distinct attachment of proposal without any additional cost.</p> <ul style="list-style-type: none"> <li>• Technical bid in the format prescribed in this document along with supporting documents as mentioned herein with signature, name, Designation and Seal of the authorized representative of the bidder on each page of the Technical bid.</li> <li>• However, bidders are suggested to avoid submission of unnecessary documents with the Technical Bid for the smooth evaluation of the documents.</li> </ul>
19.	<p>FCS&amp;CA, SHIMLA reserves the right to accept or reject any or all of the offers at any stage of the process without assigning any reasons thereof and any claim/dispute on this shall not be entertained.</p>	

4. **ELIGIBILITY CRITERIA (Pre-Qualification)**

Following are the minimum eligibility criteria based on which Bidder shall be evaluated for eligibility for further processing:

<b>Sr. No.</b>	<b>Eligibility Criteria</b>	<b>Supporting Documents</b>
1.	The Bidder/OEM must be a Company/ Partnership Firm/ Proprietorship Firm, Registered with the relevant authority.	Certificate of Incorporation along with Memorandum of Association and Articles of Association.
2.	The Bidder/OEM should be in the business of supply, installation, and maintenance of quoted Machineries & Equipment's for the last 3 years.	<ul style="list-style-type: none"><li>• At least two Performance certificates from the organizations where the quoted equipment model has already been installed are to be provided by the bidder along with Technical bid.</li><li>• Installation Certificates/ Client Certificates for successful completion of work.</li></ul>
3.	The Bidder/OEM should have import export license if the machinery/ equipment is required to be supplied from the overseas.	Certificate of the competent authority required to be attached.
4.	The Bidder/OEM should have turnover of ₹ 5.00 Crores on an average in the last 3 financial years (2018-2019 2019-20,2020-21)	Certificate issued by Chartered Accountant.
5.	Income Tax returns for three financial years (2018-2019 2019-20,2020-21)	ITR Copies to be attached.
6.	The Bidder shall be OEM of Equipment's or Authorized Distributor of the OEM (Only one BID will be considered either of OEM or Authorized Distributor)	<ul style="list-style-type: none"><li>• Undertaking in case of OEM</li><li>• Authorization letter from OEM as per Annexure-XI in case of Authorized Distributor.</li></ul>

7.	The Bidder/ OEM shall have a valid ISO 14046:2014 certifications for environment management and ISO 9001:2015 certification for quality Management System or latest and equivalent	Copy of the valid Certificate issued by the authorized agency.
8.	The Bidder/OEM shall be registered for GST and shall have a valid PAN number or any other registration for paying taxes or levies.	Necessary Documents should be attached for registration.
9.	The Bidder/ OEM shall not have been blacklisted by Central Government or any State Government Organization / Department PSU in India in the last 5 years.	Notarized Affidavit from Bidder/ OEM on the stamp paper of ₹ 100/-.
10.	STQC, CE, RoHS or equivalent certifications of the machineries/ equipment's is required.	Valid Certificate from the authorized Agency should be attached.
11.	Acceptance of the terms and conditions contained herein in the format as given in the tender document	Undertaking from the Bidder.

**Note 1:** The Bidder needs to submit all the documents as mentioned in the column “Documents required” to further qualify for further processing.

**Note 2:** In case OEM itself is a Bidder, it shall not give MAF to other Bidders.

**Note 3:** The successful bidder will provide a skilled trainer to impart training to the technical staff of the Departmental Laboratory within stipulated time (within one year) and provide successful training certificate to run the purchased machineries & Equipment's.

**Note 4:** The successful bidder shall ensure that adequate measures are taken by the bidder/ trainer to ensure confidentiality, integrity, and availability of the information and the data. The successful bidder and any individuals assigned for the performance of the services must hand over or cause to be handed over all Confidential Information and all other related materials in its possession as and when required by the department.

**5. FORMAT OF THE TECHNICAL BID:**

The technical bid of the bidders will be evaluated on the basis of specification of the offered model vis-à-vis the prescribed specification. The following information is required to be given as per the specifications provided in the tender document for each equipment: -

- a) Name of the Equipment: .....
- b) Offered Model: .....
- c) Brief details of the offered Model: (in terms of sensitivity, specification, LOD, LOQ, etc.) (not more than 150 words)
- d) List of Installations of the quoted Model or a comparable model of equivalent sensitivity preferably in food analysis sector in India (Attach Performance certificate from the organizations where the quoted model or a comparable model of equivalent sensitivity has already been installed).

**5.1 Specification: -**

**5.1.1 Inductively coupled plasma mass Spectrometer (ICP-MS) along with all accessories and sample preparation facility.**

Sr No	Components	Prescribed Specification	Technical Compliance (Yes/No)
1	<b>System Application</b>	The system should have:	
		<ul style="list-style-type: none"> <li>• Computer controlled fully automatic ICP-MS system</li> </ul>	
		<ul style="list-style-type: none"> <li>• Simultaneous multi-elemental analysis in ppm, ppb and ppt levels with required sensitivity and stability of diverse range of food and water samples</li> </ul>	
		<ul style="list-style-type: none"> <li>• The system should be a space saving, compact model that can fit into allocated lab space with all the sub-systems and accessories.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Corrosion-resistant exteriors should be provided.</li> </ul>	
2	<b>Sample Introduction system</b>	The system should have:	
		<ul style="list-style-type: none"> <li>• <b>Nebulizer:</b> Concentric Micro mist Nebulizer with low sample flow rate</li> <li>• <b>Spray Chamber:</b> Peltier cooled spray</li> </ul>	

		chamber	
		<ul style="list-style-type: none"> <li>• <b>Peristaltic pump:</b> Low pulsation high precision peristaltic pump with minimum of three separate channels which can be controlled through the software.</li> </ul>	
3	<b>Plasma</b>	The system should have:	
		<ul style="list-style-type: none"> <li>• <b>RF Generator:</b></li> </ul>	
		RF Power range: 500W to 1600 W.	
		Radio Frequency Generator (Solid State): 27 or 40 MHz Impedance Matching: Auto-tuning to get maximum coupling efficiency.	
		<ul style="list-style-type: none"> <li>• <b>Torch:</b> Easy mountable single piece quartz torch with shield torch</li> </ul>	
		(i) Torch movement should allow for complete computer-control and auto tunable in x-y-z directions with independent movements in the three directions.	
		(ii) Provision for Auto-alignment of the torch after routine maintenance with a reproducibility better than 0.1 mm in x-y-z directions	
<ul style="list-style-type: none"> <li>• <b>Plasma Gas Control:</b> Should have at least 3 Mass Flow Controllers (AMFC) or equivalent PC Controller for control plasma, auxiliary makeup, carrier gases. Gases used should be controlled with mass flow controller and fully computer controlled.</li> </ul>			
<ul style="list-style-type: none"> <li>• <b>Argon gas dilutor</b> or equivalent technology must be quoted along with the main instrument.</li> </ul>			
4	<b>Ion Extraction Interface</b>	The system should have:	
		<ul style="list-style-type: none"> <li>• Standard sample and skimmer cones with suitable orifice diameters to suit all application and to prevent clogging and minimize signal drift. It should be easily mountable and dismountable.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Scope of supply of standard (Nickel) and optional (Platinum) cones should</li> </ul>	

		<p>be clearly specified. (for any alternate material, bidder would need to prove sensitivity)</p> <ul style="list-style-type: none"> <li>• Lens/ extraction cones or equivalent should be easy to maintain.</li> </ul>	
5	<b>Ion Focusing System</b>	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Ion focusing system with efficient mechanism for removing all neutrals and photons from the Ion path.</li> <li>• Cell offering three modes of operation: Standard Mode Collision Cell Mode and Reaction Cell</li> <li>• Switching of reaction and collision gases will be through software and automated. Unit will have the flexibility of applying both (collision, and reaction) gases using single method for removal of interferences. Mass Cut off facility or equivalent technology should be there to remove unwanted polyatomic interferences formed due to free atoms.</li> <li>• A reaction cell should be provided for poly atomic interference removal with Helium mode and Hydrogen mode. Separate AMFCs for Reaction cell gases.</li> <li>• Vendor should attach application notes for Arsenic analysis as per FSSR where O2 or any other suitable gas is used to remove interference for ArCl which demonstrates mass shift mode.</li> <li>• Reaction cell assembly and octopole/hexapole assembly (if requires cleaning any time in lifetime) should be quoted.</li> </ul>	
6	<b>Quadrupole Assembly</b>	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Quadrupole Mass Analyzer: A quadrupole mass analyzer to provide effective ion transmission, superior resolution and abundance sensitivity.</li> <li>• Mass range: 5-260 amu or above</li> </ul>	

		<ul style="list-style-type: none"> <li>• RF Frequency : Fully Digital RF generator with frequency 2-3 MHz</li> <li>• Abundance sensitivity: Low Mass Side: <math>\leq 5 \times 10^{-7}</math> High Mass side: <math>\leq 1 \times 10^{-7}</math></li> <li>• Scan Speed: Greater than 3000 amu/s</li> <li>• Mass stability: <math>&lt; \pm 0.05</math> amu over 8 hours of continuous operation.</li> <li>• Resolution: Variable from 0.5 u to 1.0 u or better, user definable</li> </ul>	
7	<b>Ion Detector Assembly</b>	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Solid State dual stage dynode discrete over 9 orders of 10 orders or more magnitude of linear dynamic range.</li> <li>• Should be unique log amplifier circuit, features a high speed analog mode for transient signals and a true nine orders dynamic range.</li> <li>• Minimum dwell time / integration time of 100 <math>\mu</math>s (in both pulse count and analog modes).</li> <li>• Dual-stage detector assembly should come as a standard with the system.</li> </ul>	
8	<b>Vacuum System</b>	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Efficient Vacuum system with turbo molecular pump and single external rotary pump for fast pump down and simple maintenance.</li> <li>• In the event of vacuum failure, the entire vacuum system is to be automatically back-filled by inert gas to preserve the cleanliness of the system or an alternate system.</li> </ul>	
9	<b>Performance Specifications</b>	<p>Guaranteed sensitivity specifications will be considered (To be demonstrated during Demo): Typical sensitivity values will not be considered.</p> <ul style="list-style-type: none"> <li>• Should be able to analyze Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag, Mg, Ca, Na, As, Cd, Cr, Hg, Pb, Se, Fe (but not limited to these elements) at a concentration of 0.05ppb with RSD of <math>&lt;5\%</math> at standard</li> </ul>	

		<p>conditions.</p> <ul style="list-style-type: none"> <li>• Oxide ratio (%) CeO/Ce &lt; 2 %</li> <li>• Double charged ratio &lt; 3 %</li> <li>• Isotope-ratio Precision: 1%RSD</li> </ul>	
10	<b>Water Chiller</b>	The system should have a suitable re-circulating chiller changer of internationally reputed company for plasma component cooling.	
11	<b>Auto Sampler Diluter</b> /	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Highly effective auto sampler/ diluter compatible with operation along with ICP- MS without user intervention.</li> <li>• Auto sampler with minimum 200 vials holding capacity with 500 nos. of 15 ml capacity tubes (as consumable).</li> <li>• Programmable complete with inert PTFE coated probe with PTFE inner tubing.</li> <li>• Spare extension tube complete with 20 ml syringe for programmed auto dilution</li> <li>• All accessories, racks, bottles, tubing assembly, waste container, dust cover etc.</li> </ul>	
12	<b>System Controller and Operating System</b>	<p>The system should have:</p> <ul style="list-style-type: none"> <li>• Software control for automatic data acquisition and processing.</li> <li>• mass spectrometer tuning and calibration auto and manual</li> <li>• Data Validation (IQ/OQ/PQ for Software)</li> <li>• Self-diagnostics</li> <li>• Multi element analysis capability</li> <li>• Isotope ratio and dilution</li> <li>• Cool Plasma or other facility to eliminate polyatomic interferences.</li> <li>• Remote diagnostics</li> <li>• Software should control plasma, MS and other accessories like auto sampler</li> <li>• The system software shall support the following calibration curve fit modes</li> </ul>	



		for Quantitative analysis:	
		i. Linear least squares.	
		ii. Weighted linear least Squares	
		iii. Linear forced-through-zero least squares.	
		iv. Quantitative analysis including external calibration, additions calibrations, method of standard additions, isotope ratios and isotope dilution's and semi quantitative analysis.	
		v. On-line help with quick steps to reference entire instrument user manual.	
13	<b>Computer</b>	<ul style="list-style-type: none"> <li>• Minimum Intel core i5/i7 processor, 2.0 Ghz or more, 19" or more LCD/TFT Monitor, 1 TB HDD, DVD Read/Write, 16 GB RAM, 4 USB Port or higher configuration for use with the above system to be provided.</li> <li>• Reputed Branded colour Laser jet printer and automatic back to back should be provided.</li> </ul>	
14	<b>Multi vessel Microwave digestion system</b>	The system should be provided with a suitable microwave digestion system of 20- 25 samples processing capacity in one batch along with proper fume hood system. The specification along with the model should be provided at the time of tendering.	
15	<b>Exhaust unit</b>	Exhaust unit for the ICP-MS has to be supplied along with the System.	
16	<b>Standards with minimum expiry of two years</b>	<ul style="list-style-type: none"> <li>• Specially pure Analytical NIST traceable single element standard solutions (Minimum pack or 100ml each whichever is lower) for Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag, Mg, Ca, Na, As, Cd, Cr, Hg, Pb, Se, Fe should be supplied</li> <li>• Multi element Calibration NIST traceable standards for ICP-MS - one set</li> </ul>	

17	<b>Power Supply</b>	The system should have UPS (minimum 20 KVA) of suitable rating with voltage regulation, spike protection and minimum 60 minutes back up for the supplied equipment.	
18	<b>Accessories</b>	<p>The following Items, but not limited to, has to be supplied along with the equipment:</p> <ul style="list-style-type: none"> <li>• Peristaltic pump tubing-sample intake – 100 No's</li> <li>• Peristaltic pump tubing-Drain – 100 No's</li> <li>• Tubing – Auto Sampler to Peristaltic Pump – 25 No's</li> <li>• Micro mist nebulizer – 5 No's</li> <li>• Plasma Torch – 5 No's</li> <li>• Ni Sampling Cone – 4 No's and Pt Sampling Cone – 2 No's</li> <li>• Ni Skimmer Cone – 4 No's and Pt Skimmer Cone – 2 No's</li> <li>• Hyper skimmer cones/extraction system for HF digested sample.</li> <li>• Vacuum Pump oils – 5 litres</li> <li>• Argon Gas Cylinders-6</li> <li>• Gas cylinder for Collision cell gases – Helium-1</li> <li>• Gas cylinder for Reaction cell gases - Oxygen, Hydrogen &amp; Ammonia (&gt;99.99 % mixed or pure as per system requirement), whichever is applicable for individual system for elimination of interference species along with three stage Gas pressure regulators for each cylinder.</li> <li>• Gas purification panel for Argon, Oxygen, Helium &amp; Hydrogen with appropriate plumbing.</li> <li>• Optional: Any other accessory as felt required for the proper functioning of the equipment.</li> </ul>	

19	<b>Additional items</b>	<ul style="list-style-type: none"> <li>• Consumables for Five years operation of the system for main ICP unit, spare torches, nebulizer, tunings, and moisture trap are required to be quoted.</li> <li>• Bidders should quote a startup package for 100 samples. In addition, the bidders should give a list of recommended consumables along with their source and budgetary prices.</li> <li>• Operation kit comprising all required items pump tubings, transfer tubings, work coils etc. for startup/regular operation of instrument.</li> <li>• Firm should also quote all essential pre-installation requirements and utility requirement for ICP-MS.</li> <li>• Give the Detection limits (DL) chart for Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag, Mg, Ca, Na, As, Cd, Cr, Hg, Pb, Se, Fe (but not limited to these elements. Provide for as many elements as vendor can) and give the conditions at which the DLs are measured.</li> <li>• Operation and maintenance manual for each unit in both hard copy and soft copy.</li> <li>• Service manual with set of required tools for each system/unit.</li> <li>• The system should have Server connectivity and should be capable of 21 CFR Part 11 and food safety compliance. The necessary validations will have to be carried out by the equipment suppliers.</li> <li>• Methods library for all food matrixes, related software's and user manuals to be provided.</li> </ul> <p>PLEASE PROVIDE MAINTENANCE CHART FOR ALL OF THE COMPONENTS IN ICPMS SYSTEM.</p>	
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20	<b>Operation and maintenance &amp; Training Component</b>	<ul style="list-style-type: none"> <li>• The supplier will have to carry out successful installation at our laboratory premises (where ever the system has to be installed) and provide on – site comprehensive training for scientific personnel operating the system and support services till customer satisfaction with the system and a training at the suppliers lab premises is also required.</li> </ul>	
21	<b>IQ/OQ/PQ</b>	<ul style="list-style-type: none"> <li>• IQ/OQ/PQ of the system is required.</li> </ul>	
22	<b>Warranty</b>	<ul style="list-style-type: none"> <li>• Standard Warranty of 24 months starting from date of satisfactory and faultless functioning of the equipment for 60 days at the respective laboratory premises.</li> <li>• Comprehensive Maintenance Contract Service for 60 months after expiry of standard Guarantee/Warranty should be quoted</li> <li>• Annual calibration of the equipment shall be a part of the CMC. It shall also be mandatory to perform calibration after every major repair/breakdown.</li> <li>• The vendor should have available for ten years guaranteed parts and CMC service</li> <li>• The supplier or his authorized agent should have after sales and service centre near each of our laboratory location (SHIMLA HQ) where the equipment is to be supplied.</li> <li>• Current user’s / performance list with contact details (Customer name, phone email id etc) and date of installation to be provided (Minimum 5 installations of the model quoted)</li> <li>• Number and details of the service engineers has to be provided</li> <li>• Onsite technical performance evaluation of the quoted model of the equipment will be carried out for those</li> </ul>	

		who qualify in the technical bid.	
23	<b>Pre-installation requirements</b>	<ul style="list-style-type: none"> <li>Provide all pre-installation requirements.</li> </ul>	

**Note.1:** The bidders shall also provide at least two Performance certificate from the organizations (at least one from the Government sector), where the quoted model/ or any other model of equivalent sensitivity has already been installed, indicating LOD/LOQ of Pb, Cd, As, Hg, Cr, Cu and Sn relevant to food sector along with the Technical Bid.

**Note.2:** The supplier would facilitate the State labs to obtain the IVL for ICPMS. Equipment delivery time will be 60 days from days from the date of receipt of IVL certificate but not more than 6 months from date of issue of Purchase Order.

**Note. 3** The cost should be quoted separately for all the accessories, consumables, equipment for sample preparation, CRM etc required for the functioning of the respective equipment.

**Note.4:** The purchased equipment should be able to meet the requirements of the LOD and LOQ (Limit of detection and Limit of quantification) for the relevant parameters as specified in FSSR Manuals Relevant test methods and be compliant to the requirements of ISO 17025.

**Note.5:** The bidder shall provide one full time trained personnel for one year, who will be responsible for the working of the instrument i.e. sample preparation, method validation, operation of instrument and data interpretation. The personnel will not claim to be an employee of FCS&CA, HP SHIMLA/state Laboratory. The person will work under the supervision of Department and carry out the required analysis of various samples received in the lab. He will also be responsible for providing training on the instrument to the laboratory staff.

### 5.1.2 High performance liquid chromatograph (HPLC) with photodiode array (PDA), fluorescence (FLD) and refractive index detector (RID)

<b>Application:</b> High-performance liquid chromatography (HPLC) is used to separate, identify, and quantify each component in a mixture. In food analysis it is used for analysis of food colors, food additive, vitamins, sugars amino acids, triglycerides etc. It is also used to estimate aflatoxin.	
<b>SPECIFICATIONS</b>	
<b>1. Quaternary Gradient System with Online Degasser:</b>	
Pressure operating range	8500 psi or better

Flow Rate Range:	Programmable 0.01 to 2 ml/ min in 0.01 ml/min increments
Flow Precision	±0.1% RSD or below
Flow Rate Accuracy	±1%
Delay Volume	< 1100 µl
Eluent Degassing	Online membrane Degasser for all channels
Gradient Mixer	1. Quaternary mixing & gradient capability using suitable proportionate valve) 2. Plunger Seal Wash Integral/ 3. Gradient Profiles which include gradient curves: linear, step, concave, and convex 4. Composition Precision 0.20% RSD or +/- 0.04 min SD, whichever is greater, based on retention time
Solvent Setting Range	4 solvents setting range:0-100% with 0.1% step
Diagnostic Features	Error detection and display, Leak detection & safe leak handling
<b>2. PDA Detector</b>	
Wavelength range	190-750 nm with inbuilt Holmium oxide filter
Spectral resolution	1.2 nm or better per photodiode with a Total of 1024 photodiodes, digital and optical (3D modes)
Bandwidth	<5 nm or better
Linearity range	<5% at 2 AU, 257 nm
Baseline noise	8.0 X 10 <sup>-5</sup> AU at 254 nm or better
Drift	<1.0x 10 <sup>-3</sup> AU/h at 254 nm
Suitable peak purity software, Auto threshold for peak purity	
<b>3. RI Detector</b>	
Refractive Index Range	1.00 to 1.75 RIU
Noise Level	± 2.5 x 10 <sup>-9</sup> RIU
Drift	1 x 10 <sup>-7</sup> RIU/hr
Cell Volume	Approximately 10 µL
Temperature Control	Temp. controlled Flow cell unit
Temperature Operating Range	5° below 25 °C to 50°C.

<b>4. Fluorescence Detector</b>	
Light Source	Continuous Xenon lamp
Excitation Wavelength	Range 200-850 nm
Emission Wavelength	Range 220-900 nm
Spectral bandwidth	15-20 nm both in the excitation and emission sides
Wavelength accuracy	should be +/- 2 nm
Repeatability	should be + 0.2nm
Sensitivity	should be S/N > 1000 (Raman Spectrum of H2O) as per ASTM Method
Data Acquisition range	should be up to 80 HZ Cell volume should be < 2 microliter
Pressure	limit up to 500 psi
<b>5. Column Oven with preheating capability</b>	
Temperature range	10 to 90° C
For column length	Must accommodate upto 300 mm columns
No of Columns accommodated	Minimum 1
Temperature Stability	±0.1 °C of set temperature
Cooling system	Peltier based or equivalent technology
<b>6. Autosampler</b>	
Injection Mode	Total vol. Inj / Variable Inj method
Injection Volume Range	0.1-100 µl (Standard)
Sample Capacity	>80 x 2 ml vials or more
Injection Volume Accuracy	±1%
Injection Precision	<0.5% RSD or better
Cross contamination	<0.1% with & without automated needle wash
Carry over	0.005% from previous injection
Tray Temperature Operating Range	4 - 40 ° C or more with ±0.5 °C accuracy
<b>7. Accessories</b>	
<b>HPLC Columns</b>	<b>One each of</b> <b>C8</b> = 250 × 4.6 × 5µm <b>C18</b> = 250 × 4.6 × 5µm <b>Cyano</b> = 250 × 4.6 × 5µm <b>Amino</b> = 250 × 4.6 × 5µm <b>Phenyl</b> = 250 × 4.6 × 5µm <b>Silica</b> = 250 × 4.6 × 5µm All columns must be supplied with

<p><b>Accessories to be supplied</b></p>	<p>respective guard column and holder</p> <ul style="list-style-type: none"> <li>• Sample Vials 100 numbers with 1.5 ml or greater.</li> <li>• Stainless Steel Ultra Sonic bath with the capacity of 5 L or more, with Time setting (min) 1-30min or continuous operation with LED and Push button (Should be IP 33 Protection class) for sonication of spare parts as well as solvents.</li> <li>• Mobile phase filter assembly (2 L) for aqueous and organic solvent: Aqueous and organic solvent compatible membranes 0.22 microns 100 numbers each</li> <li>• Oil free vacuum pump (1 no.) with 4 bar pressures or better should be Neoprene diaphragm based.</li> <li>• Fittings, Frits, ferules and Tubing's</li> <li>• Tubing cutter (2 no.)</li> <li>• Solvent bottles (12 no. each 1000 ml capacity)</li> <li>• Solvent filters (Glass &amp; SS both, 08 no. each)</li> <li>• Compatible Manual syringes -10 µl, 20 µl, 50 µl (02 no. each)</li> <li>• Standards for HPLC Calibration for PDA, RI and Fluorescence detector</li> <li>• Spare lamps for each detector</li> <li>• Consumables required for each detector must be provided</li> </ul>
<p><b>Software and Hardware</b></p>	<ul style="list-style-type: none"> <li>• Complete system and software configuration must be 21 CFR Part 11 compliant.</li> <li>• <b>Software:</b> Database version software with multitasking and capable of performing the following functions: Control the system, acquire, store, process and reproduce the data.</li> <li>• It must be able to control all the devices from same software.</li> </ul>



<b>PC with Printer</b>	Latest Factory set, branded system with 22-23” Full HD Monitor with licensed OSs, MS office standard version and Antivirus for 3 year with Printer - B/W - duplex - laser - Legal, A4 - 1200 dpi x 1200 dpi - up to 21 ppm – capacity with Network Card and Bluetooth facility.
<b>Service Contract Clauses, Including Prices</b>	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached.
<b>Supplier/ Manufacturer</b>	Must be ISO certified for quality.
<b>Operating manuals, service manuals, other manuals</b>	Should provide 2 sets (hardcopy and soft-copy) of: - <ul style="list-style-type: none"> <li>• User, technical and maintenance manuals to be supplied in English language along with machine diagrams;</li> <li>• List of equipment and procedures required for local calibration and routine maintenance;</li> <li>• Service and operation manuals (original and copy) to be provided;</li> <li>• Advanced maintenance tasks documentation, if any.</li> <li>• Certificate of calibration and inspection</li> </ul>
<b>Recommendations or Warnings</b>	Any warning signs would be adequately displayed
<b>Warranty</b>	Warranty for 2 years, extendable up to 3 years, after satisfactory installation and working excluding consumable parts and accessories.
<b>Training</b>	The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system within One Year.
<b>List of Spares and Accessories</b>	List of all spares and accessories (including minor) with part numbers and

	price, required for maintenance and repairs in future after guarantee/warranty period should be attached.
<b>UPS</b>	Suitable true on - line UPS (10 KVA) to support the instrument back up for 60 min.
<b>Quality Requirement</b>	Should be compliant with the requirements of FDA/CE/BIS <ul style="list-style-type: none"> <li>• Quality Certification: ISO certified.</li> <li>• Should provide calibration certificates from NABL accredited agency every year during warranty &amp; CMC period. Calibration cost will have to be borne by the supplier.</li> </ul>
<b>IQ/PQ/OQ</b>	On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument.
<b>After sales service/ Post warranty</b>	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail for free of cost. Should carry out yearly PM with at least one PM kit. Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified
<b>Compliance statement</b>	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found

<p><b>Outage conditions</b></p>	<p>submitted will result in disqualification.</p> <p>After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include:</p> <ul style="list-style-type: none"> <li>a) Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/tuning as may be required.</li> <li>b) Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable.</li> <li>c) Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer.</li> <li>d) Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also unavailability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime 'Liquidated Damages' would be applicable for the delayed period.</li> <li>e) Maximum repair turnaround time for equipment/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system</li> </ul>
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**Note. 1** The cost should be quoted separately for all the accessories, consumables, equipment for sample preparation, CRM etc required for the functioning of the respective equipment.

**Note.2:** The purchased equipment should be able to meet the requirements of the LOD and LOQ (Limit of detection and Limit of quantification) for the relevant parameters as specified in FSSR Manuals Relevant test methods and be compliant to the requirements of ISO 17025

### 5.1.3 LOVIBOND TINTOMETER

<b>Application</b> : It is a visual and automated color measuring instruments synonymous with accuracy in the measurement of color in edible oils, beverages & foodstuffs	
Specification	Requirements
Measuring	Visual, in terms of Lovibond ® units
Modes	Transmittance, reflectance Range 0.1 – 79.9 Red, Yellow; 0.1 – 49.9 Blue; 0.1 – 3.9 Neutral
Resolution	0.1 Lovibond ® unit
Optical system	11 glass-filled nylon racks containing a graduated range of Lovibond ® color glasses
Viewing system	Fully adjustable, prismatic with integral blue filter for light standardization
Light source	2 x 12 Volt, 10-Watt tungsten halogen lamp Illuminant approximates to daylight
Path length	Up to 153 mm (6’’)
Power pack	12 Volt AC, switchable to suit 220/110 Volt supply Approvals CE Instrument housing Fabricated sheet steel with a tough, textured paint finish
Accessories	Conformance filters and certified colour reference solutions representing a range of Lovibond ® colours, for quick and simple quality control checks on instruments and operators.
Operating manuals, service manuals, other manuals	Should provide: <ul style="list-style-type: none"> <li>• User, technical and maintenance manuals in English language</li> <li>• List of equipment and procedures required for local calibration and routine maintenance.</li> <li>• Service and operation manuals to be provided Advanced maintenance tasks documentation, if any</li> </ul>
Recommendations or Warnings	Any warning signs would be adequately displayed
Warranty	2 years after satisfactory installation and working excluding

	consumable parts and accessories. Provision should be there to extend the warranty up to 3 years (at least)
Training	The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operation the system till customer satisfaction.
List of Spares and Accessories	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached
UPS	UPS/Stabilizer as required for functioning of the equipment
Validation	For validation vendor should having own capability with trown company trained service engineer to perform validation. No third party validation will be entertained. One validation at the time of installation should be done by company personnel
Quality Requirement	Should be compliant with the requirements of FDA/CE/BIS <ul style="list-style-type: none"> <li>• Electrical safety conforms to the standards for electrical safety IEC 60601 – General requirements ( or equivalent BIS standard)</li> <li>• Certified to be complaint with IEC 61010 -1 , IEC 61010 -2 -40 for safety</li> <li>• Should have necessary certification for safety and quality standards from national /international bodies</li> </ul>
IQ/PO/OQ	On site IQ,OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument
After sale serviced/ Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by services/application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified

Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Outage conditions	<p>After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include;</p> <ul style="list-style-type: none"> <li>a) Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustment/tuning as may be required.</li> <li>b) Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable.</li> <li>c) Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer.</li> <li>d) Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also un-serviceability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime ‘Liquidated Damages’ would be applicable for the delayed period.</li> <li>e) Maximum repair turnaround time for equipment/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system</li> </ul>
Payment	Payment only after installation, validation and performance demonstration

#### 5.1.4 ELISA READER WITH PLATE WASHER

**Application:** ELISA readers detect and process and quantitate biological and chemical data using absorbance (ELISAs, enzyme activity, and nucleic acid and

protein quantification), luminescence, and fluorescence detection modes, in the wells of a plate usually 96 or 384 plates	
<b>Specifications</b>	<b>Requirements</b>
<b>ELISA Microplate Reader</b>	
Light Source	Quartz-halogen lamp 6V/10W
Wavelength	Absorbance 230-750 nm-, Accuracy $\pm 1$ nm Fluorescence Ex 230 – 850 nm, Em 280 – 850 nm Accuracy $< \pm 2$ nm
Filters	8- position filter wheel, the instrument is delivered with the following standard filters installed: 405nm, 450nm, 620nm and 650nm
Resolution	0.001 Abs
Display	High contrast color display (480 x 272 dots)
Internal Memory	At least up to 99 assay protocols and 100 test results, 96- well plates
Incubator (Optional)	Temperature range from ambient +4o C up to 50o C
Accuracy(405nm)	$\pm 1\%$ (0-3Abs) or $\pm 0.003$ Abs, whichever is greater
Communication	USB for computer connection USB for memory stick position for data export USB for external printer
Mains Input	100-240V(50/60Hz) with IVD specifications
Capability	Capability to read flat- , U- , or V- bottom microplates, 6 / 12 / 24 / 48 / 96 wells and cuvettes
Power Supply	210-240V/50-60 Hz
Detectors	Fluorescence, UV and Visible, Luminescence
Temperature control	Ambient +5 °C to 45°C
Calibration plate	96-well calibration plate must be calibrated for the wavelength (e.g., 630 nm, 650 nm, 420 nm, 450 nm).
Calibration	Calibration certificate from ISO 17025, NABL accredited laboratory
<b>ELISA Microplate Washer</b>	
Function	Fully automatic plate washer With IVD specifications
Compatible	With ELISA reader supplied (as per model)
Capability	Washing of 96 well microplates and strips, with flat, round, or “V” bottom well.
Bottle	<ul style="list-style-type: none"> <li>• With non-pressurized bottle to maintain biosafety.</li> <li>• Wash, rinse and waste (volume 4-6 L)</li> </ul>
Residual volume	$< 2 \mu\text{l}$
Dispensing volume	50-400 $\mu\text{l}$ for 96 well plate
Plate sensor	Should have the provision
Data Transfer	USB Port Number of wash protocols up to 99

Number of Wash buffer bottles	One
Validation	For validation vendor should having it own capability with their own company trained service engineer to perform validation. No third part validation will be entertained. One validation at the time of installation should be done by company personnel.
Operating manuals, service manuals, other manuals	Should provide: - <ul style="list-style-type: none"> <li>• User, technical and maintenance manuals in English language</li> <li>• List of equipment and procedures required for local calibration and routine maintenance</li> <li>• Service and operation manuals to be provided advanced maintenance tasks documentation, if any.</li> </ul>
Recommendations or Warnings	Any warning signs would be adequately displayed.
Warranty	2 year after satisfactory installation and working excluding consumable parts and accessories.
After sales service/ Post warranty	<ol style="list-style-type: none"> <li>1. Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number;</li> <li>2. Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail.</li> <li>3. Should carry out yearly PM with at least one PM kit</li> <li>4. Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified.</li> </ol>
Training	The supplier should provide comprehensive training to users on operation of the instrument and application support onsite as per specifications.
Accessories	Spare Lamps 2 Nos. Multichannel pipette (2 nos) with tips and calibration certificate should be provided.
List of Spares and Accessories	All spares and accessories for both ELISA reader and Plate washer along with part number must be listed.
UPS back-up 30 mins	Branded compatible online UPS with at least 30 minutes backup.
Certificates required	Should be compliant with the requirements of FDA/CE/BIS <ul style="list-style-type: none"> <li>• Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard)</li> <li>• Certified to be compliant with IEC 61010-1, IEC 61010-2-40</li> </ul>



	for safety
Outage conditions	<p>After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include:</p> <ul style="list-style-type: none"> <li>a) Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/tuning as may be required.</li> <li>b) Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable.</li> <li>c) Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer.</li> <li>d) Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also unserviceability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime 'Liquidated Damages' would be applicable for the delayed period.</li> <li>e) Maximum repair turnaround time for equipment/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system.</li> </ul>
IQ/PQ/OQ	On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument.
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Payment	Payment only after installation, validation and performance demonstration.

### 5.1.5: DUAL UV EXPOSURE CHAMBER

<b><u>Technical Specifications</u></b>	
Ultra violet(UV) light Wavelengths	365nm&254nm
Number of UV Lamps	04Nos
UV Lamp Wattage	70W Lamp
Typical Irradiance	100 mW cm <sup>2</sup>
Average Lamp Life	6000 Hrs
Working Chamber	10”(L)×10” (W)
PTFE Coated Turn-table Diameter	8”
Turn-table speed	>5 rpm
Distance of sample from lamp	75-150 mm or more
Stirrer speed ( in R.P.M.)	≥1000
Essential spares/accessories	UV Lamp 12 Nos(6 Nos, each for 365 nm and 254 nm wavelengths)
In PTFE Substrate(25 cm)	5 Nos
The unit should have provision for in-situ stirring of the liquid samples during the UV irradiation	
All the internal parts should be UV radiation resistant	
The unit should be completely closed and should not allow UV light outside	
Suitable interlocking should be provided to ensure that lamp will be switched “ON” only when the door is closed	
ON/OFF operation of all the four lamps should be independent.	
Input power: 230V,50 Hz, single phase	
The unit should be supplied with minimum one-year warranty from the date of installation and commissioning at RRCAT	
Other general specifications:	The supplier should either be an OEM or its authorized sales an service representative.
	The authorized representative should provide authorization letter from OEM in the offer
	The quotation should be submitted with complete technical brochures datasheet.
Acceptance criterion	The item shall be accepted after successful installation and demonstration of functioning of unit by the supplier at user’s site i.e. RRCAT.

### 5.1.6: UV-VISIBLE SPECTROPHOTOMETER

**Application:** UV-VIS spectrophotometer is the workhorse of the laboratory used in spectrophotometric and colorimetric analysis of analytes, food colors, enzyme assay, hydroxymethyl furfural, coloring and bitter principles of saffron etc.

Specifications	Requirement
System	A fully automated PC Controlled spectrophotometer with double beam optics with pre-programmed applications using conventional quartz cuvettes with all the required accessories.
Operation keys	<ol style="list-style-type: none"> <li>1. Instrument should operate immediately after switch on with no warming up time</li> <li>2. Should be automatically programmed with <b>from PC keyboard</b></li> <li>3. Capable to store method with analysis: <ul style="list-style-type: none"> <li>&gt; 100 method programs on the instrument or PC</li> <li>&gt; 1000 results with data, evaluation results and used parameters</li> </ul> </li> </ol>
Optical Design	<ul style="list-style-type: none"> <li>• Double Beam with sample and reference cuvette positions; Czerny-Turner equivalent Monochromatic /Holographic OR equivalent grating with sealed optics</li> <li>• Reference Compartment Should accommodate cells up to 10 mm path length as standard feature.</li> </ul>
Light Source	<ol style="list-style-type: none"> <li>(1) Halogen lamp for Visible range</li> <li>(2) Deuterium Lamp for UV range</li> </ol> Light source should be auto automatically selected as per wavelength required.
Detector	Silicon Photodiode dual detector/PMT
Scan Ordinate Modes	Absorbance, % Transmittance, % Reflectance
Resolution	0.1nm or better
Wavelength Range	185 –1100 nm
Wavelength Accuracy	± 0.3nm or better for entire range
Wavelength Repeatability	± 0.1nm or better
Scanning Speed	Selectable Variable wavelength scan rate 10nm/min to 2500 nm/min or better
Spectral Bandwidth	Variable (0.2/0.5/1/2/4 or 5) nm
Photometric Range	Absorbance = -3.0 to 3.0 Abs or better.
Photometric Accuracy	With Neutral Glass filter @ 546nm : ± 0.003A
Stray Light	Max. 0.05% (220 nm NaI) or better, Max. 0.05% (340, 370nm NaNO <sub>2</sub> ) or better Max. 1% (198 nm KCl) or better
Noise	0.00005 Abs RMS (500nm) or better
Drift	< 0.0005 A/hr (500 nm, 1-hour warm-up)

Baseline flatness	± 0.0005 Abs or better
Application Software	<p>Compatible Software should be user friendly &amp; simple for data handling with feature like easy to use report publisher, online help and answer wizard, GLP &amp; audit trail and fully compatible with Windows.</p> <p>System built in features such as real time display of concentration, time scan, photometric mode, single/multi- wavelength, capability for event recording (e.g., addition of reagents).</p> <p><b>Software should have built in</b></p> <p><b>a. Methods:</b></p> <ul style="list-style-type: none"> <li>• Absorbance with one or more wavelengths,</li> <li>• Scans, Nucleic acids, Proteins, OD 600,</li> <li>• Evaluation: via factor, standard and calibration curve</li> <li>• Dual wavelength with subtraction and division evaluation</li> </ul> <p><b>b. Method dependent evaluation:</b></p> <ul style="list-style-type: none"> <li>• Absorbance, concentration via factor and standard</li> <li>• Concentration via standard series using Linear regression, Nonlinear regression with 2nd and 3rd degree polynomials</li> <li>• Spline analysis,</li> <li>• Linear interpolation (point to point evaluation)</li> <li>• Absorbance allocation via subtraction and division</li> <li>• Ratio 260/280, 260/230, Molar concentration and total yield for nucleic acids.</li> </ul> <p>The software should be 21CFR part 11 compliant.</p>
Accessories and spares	<ul style="list-style-type: none"> <li>• One pair each of of 0.5, 1 and 3-ml quartz cuvettes 10 mm path length</li> <li>• Cuvette holder</li> <li>• Deuterium Lamp</li> <li>• Halogen lamp</li> <li>• Suitable Certified Standards for Validation including Holmium oxide glass filters for wavelength calibration &amp; NIST traceable</li> <li>• NIST traceable Potassium dichromate</li> </ul>
Computer and printer	Latest configuration factory set branded PC system with 32'' Full HD Monitor with printer –B/W – duplex- laser- legal, A4 - 1200dpi-up to 21 ppm –capacity with network Card
UPS	Suitable UPS with 60 mins backup power
Calibration	Certificate from an ISO 17025 accredited lab spectral calibration. Wavelength check and absorbance check for the calibration of equipment should be performed.
Compliance	IQ/OQ/PQ of instrument and Software should be provided along with document.

Operation and training component	The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on – site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction.
Certificates Performance and safety standards (specific to the device type); Local and/or international	<ul style="list-style-type: none"> <li>• Should be FDA/CE/BIS approved product.</li> <li>• Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard)</li> </ul>
Quality requirement	Should be compliant with the requirements of FDA/CE/BIS <ul style="list-style-type: none"> <li>• Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety</li> </ul>
Supplier/ Manufacturer	Must be ISO certified for quality
Recommendations or warnings	Any warning signs would be adequately displayed
Warranty	Warranted for 3 years after satisfactory installation and working excluding consumable parts and accessories.
Service contract clauses, including prices	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached
Operating manuals, service manuals, other manuals	Should provide 2 sets (hardcopy and soft-copy) of:- <ul style="list-style-type: none"> <li>• User, technical and maintenance manuals to be supplied in English language along with machine diagrams;</li> <li>• List of equipment and procedures required for local calibration and routine maintenance;</li> <li>• Service and operation manuals (original and copy) to be provided;</li> <li>• Advanced maintenance tasks documentation, if any.;</li> <li>• Certificate of calibration and inspection</li> </ul>
After sales service/ Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and

	conditions for the comprehensive AMC, after the warranty period has to be specified
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Outage conditions	<p>After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include:</p> <p>a. Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/tuning as may be required.</p> <p>b. Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable.</p> <p>c. Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer.</p> <p>d. Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also un-serviceability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime ‘Liquidated Damages’ would be applicable for the delayed period.</p> <p>e. Maximum repair turnaround time for equipment/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system</p>

### 5.1.7: Milli-Q Water Purification System

**Application:** Milli-Q water purification system is required for purification of water and making it free of contaminants that interfere with analysis. A Milli-Q water purification system is equipped with ultra-filters to remove endotoxins, DNase and RNase left over from bacteria destroyed by UV, resulting in extremely low total organic carbon (TOC) and having a resistance of up to 18.2 MΩ/cm

Specifications	Requirement
General	<ul style="list-style-type: none"> <li>• Compact, Wall mountable/benchttop system for microbiology / molecular biology/LC-MS/MS/ICP MS/HPLC grade water</li> </ul>

	<p>applications.</p> <ul style="list-style-type: none"> <li>• Should deliver ultra-pure product water by point of use dispenser with flexible dispenser, volumetric dispensing and auto shut off facility.</li> </ul>
Quality of water	<p>Should deliver ICP-MS/HPLC grade water as per specifications as follows:</p> <ul style="list-style-type: none"> <li>• Electrical Resistivity Min. 18.2 MΩ/cm @ 25°C</li> <li>• Conductivity 0.055 μS/cm compensated to 25°C</li> <li>• TOC level (system with UV lamp) &lt;5ppb</li> <li>• Flow rate &gt; 1 lit / min</li> <li>• Bacteria &lt;1 CFU/100 ml</li> <li>• Particulates(size&gt;0.22μm) &lt;1/mL</li> <li>• Sodium (ppb)&lt; 1</li> <li>• Chloride (ppb) &lt; 1</li> <li>• Total Silica (ppb) &lt; 3</li> <li>• Pyrogens &lt;0.001 Eu/ml</li> <li>• RNases free, &lt;1pg/ml</li> <li>• DNases free, &lt;5 pg/ml</li> </ul>
Storage	<p>System should come with an inbuilt storage system of 5-8 L to store consistently high-quality pure water for prolonged period and prevent Contamination by ambient air.</p>
Feed water	<p>Should have separate feed water (Potable tap water) specific purification cartridge and application specific polishing cartridge.</p>
Control display	<ul style="list-style-type: none"> <li>• Should have calibrated meters for continuous monitoring and display of water quality parameters: Product water resistivity / conductivity both compensated and non-compensated mode, product water temperature,</li> <li>• Alarms for product water resistivity greater or below set point</li> <li>• Should have display for maintenance: sanitization/exchange purification cartridges /activation of fast flush/depressurization/ air purge etc.</li> </ul>
Consumable	<p>Must Quote separately for consumables (cartridges, filters etc.) for ONE YEAR for trouble free working.</p>
Validation	<p>For validation vendor should having its own capability with their own company trained service engineer to perform validation. No third part validation will be entertained. One validation at the time of installation should be done by company personnel.</p>
Operating manuals, service manuals, other manuals	<p>Should provide: -</p> <ul style="list-style-type: none"> <li>• User, technical and maintenance manuals in English language</li> <li>• List of equipment and procedures required for local calibration and routine maintenance</li> <li>• Service and operation manuals to be provided</li> </ul>

	Advanced maintenance tasks documentation, if any.
Recommendations or Warnings	Any warning signs would be adequately displayed
Warranty	2 years after satisfactory installation and working excluding consumable parts and accessories. Provision should be there to extend the warranty up to 3 years (at least).
Training	The supplier should provide comprehensive training to users on operation of the instrument and application support onsite as per specifications
Accessories	All cartridges, filters, pump or any such item which is /are essential for Installation and functioning /operating the equipment.
UPS	UPS/Stabilizer as required for functioning of the equipment
Quality Requirement	<p>Should be compliant with the requirements of FDA/CE/BIS</p> <ul style="list-style-type: none"> <li>• Manufacturer and Supplier should have ISO 9001:2015 for Quality Management System &amp; ISO 14000:2015 for Design of process plant, Design, manufacture &amp; technical support of water purification equipment.</li> <li>• Electrical safety conforms to the standards for electrical safety EN 61326-1 EMC requirements Electrical equipment for measurement, control &amp; lab use.</li> <li>• EN 61010-1 Safety requirement of electrical equipment for measurement, control &amp; laboratory use.</li> </ul>
IQ/PQ/OQ	On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument.
After sales service/ Post warranty	<p>Contact details of manufacturer, supplier and local service agent to be provided, including toll free/ Landline Number; Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service/application support, engineers should attend immediately without fail.</p> <p>Should carry out yearly PM with at least one PM kit Comprehensive AMC cost/rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified</p>
Compliance statement	The quote should also include a compliance statement vis-à-vis specifications in a “tabular form” clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
Outage	After two years of warranty period, 3 years of CAMC shall be



conditions	<p>undertaken by the supplier. This would also include:</p> <p>a. Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/tuning as may be required.</p> <p>b. Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable.</p> <p>c. Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation (telephonically/email/official communication) is provided by the Buyer.</p> <p>d. Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also un-serviceability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime 'Liquidated Damages' would be applicable for the delayed period.</p> <p>e. Maximum repair turnaround time for equipment/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system.</p>
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**Note. 1:** The technical bids have to be filled in the above format only. Separate application notes and details can be attached but the above format is to be filled mandatorily.

**Note.2** The bidders should enclose with the technical bid a list of at least 2 Installations of the quoted model or a comparable model of equivalent sensitivity in comparison to the Himachal Pradesh, preferably in Food sector along with the Contact Name, contact No, e-mail ID and complete address.

**Note.3:** The supplier should aim at a turnkey supply and installation of the equipment. Any accessory which is felt mandatory for the proper working of the equipment but not mentioned in the specification has to be quoted and supplied along with.

**Note.4:** Any unfair practice detected at any stage of the tendering process will lead to automatic disqualification/blacklisting of the concerned firm.

## 6: FINANCIAL BID

The financial bids of those Bidders will be open who will qualify the technical evaluation, the Bidder should submit the financial proposal online in e-Procurement portal based on the requirements given in the technical specifications of machineries/ equipment's on the BOQ format only.

### A. FINANCIAL BID FORMAT

<b>Sr. No.</b>	<b>Item Description (A)</b>	<b>Price (Inclusive of all taxes and levies)</b>
1.	Inductively Coupled Plasma Mass Spectrometer (ICP-MS) along with all accessories and sample preparation facility.	
2.	High Performance Liquid Chromatograph (HPLC) with Photodiode Array (PDA), Fluorescence (FLD) and Refractive Index Detector (RID)	
3.	Lovibond Tintometer	
4.	ELISA Reader with Plate Washer	
5.	Dual UV Exposure Chamber	
6.	UV-Visible Spectrophotometer	
7.	Milli-Q Water Purification System	

#### Note 1:

- i. The price of the machinery/ equipments may be assessed and quoted as per the technical specifications of the tender document inclusive of all taxes and levies (if any) on the prescribed format of BOQ. The bidder should not leave any field blank.
- ii. The rates quoted should be inclusive of all/ applicable taxes and levies.
- iii. All the prices are to be entered in Indian Rupees ONLY (% age values and figures in decimals are not allowed).
- iv. Rates mentioned should include the cost of technical support, manpower resources and trainings
- v. The financial bid should be uploaded online in a specific BOQ to the Department.

- vi. Price will be valid for the period of 2 years and during the extended period on mutual consent basis (If extended).
- vii. 5% of the cost of equipment needs to be submitted as Performance Bank Guarantee at the time of placing the order by the Department.
- viii. The comprehensive two-year warranty shall cover the spares, service charges, all taxes, etc.

**Note 2:** Prices in Financial Bid should be quoted in the provided format. All prices should be quoted in Indian Rupees and indicated both in figures and words. Price in words shall prevail, in the event of any mismatch.

**Note 3:** The rates mentioned above should include the cost of technical support and trainings.

**Note: 4** Tender/ work will be awarded to the L1 bidder after completion of all codal formalities as per the conditions of the tender document.

**Note: 5** In case, more than one L1 bidder is found after tender, the bidder with a higher configuration will be given preference.

**Note 6:** In case the L1 bidder fails to implement the assigned project, the department reserves the right to negotiate with the L2 bidder and so on to initiate the work strictly at the L1 rates.

#### **B. Payment terms:**

- a. **Ninety percent (90%)** of the cost of equipment / item shall be released **within Fifteen (15) days** of receipt of such a request in writing from the Supplier, accompanied by a certificate from the Food Safety Commissioner/ laboratory In – charge to the effect that the quantities ordered have been received and that the equipment / item has been installed & commissioned satisfactorily.
- b. **Balance Ten percent (10%)** of the cost of equipment/ item shall be released within **Fifteen (15) days** of receipt of such a request in writing from the Supplier, accompanied by a certificate from the Food Safety Commissioner / laboratory In – charge to the effect that the required training and validation (wherever applicable) has been imparted satisfactorily.
- C. All costs to be quoted shall be exclusive of taxes and duties FOR destination any-where in India.

#### **7: General Terms and Conditions of the Tender:**

- i. The bidders need to give an undertaking that application support and services would be available for minimum 10 years.
- ii. Service support should be available in the Himachal Pradesh with a maximum turnaround time of 3 working days.

- iii. The successful bidder shall have complete responsibility for the equipment in consultation with the staff of state lab where the equipment will be installed. In the event of any equipment going out of calibration the successful bidder shall be responsible for carrying out required repairs and adjustments.
- iv. The bidders will have to enter into tripartite agreement with Department of FCS&CA, HP SHIMLA-9 before placement of actual supply order for the equipment's.
- v. All the documents submitted including the tender document should be duly signed by the authorized signatory of the firm/ company.
- vi. Failure to furnish any of the online uploaded documents, certificates, will result in rejection of the bid. Department of Food, Civil Supplies and Consumer Affairs HP shall not hold any risk on account of delay. Similarly, if any of the certificates, documents, etc., furnished by the Bidder are found to be False/fabricated/bogus, the Bidder will be disqualified, blacklisted and action will be initiated as deemed fit and the Bid Security will be forfeited.
- vii. Department of Food, Civil Supplies and Consumer Affairs HP will not hold any risk and responsibility regulating the non-visibility of the scanned and uploaded documents.
- viii. The documents that are uploaded online on the e-procurement portal will only be considered for Bid Evaluation.
- ix. The final decision would be based on the technical capacity and pricing of the successful bidder. Department of Food, Civil Supplies and Consumer Affairs HP does not bind itself in selecting the Bidder offering lowest prices.
- x. Department of Food, Civil Supplies and Consumer Affairs HP reserves the right to reject any or all the bids without assigning any reason, to relax or waive any of the conditions stipulated in the terms and conditions of tender as deemed necessary in the best interest of the Department of Food Civil Supplies and Consumer Affairs for good and sufficient reasons.
- xi. The agency would be required to adhere to the practices, terms and conditions, and specifications mentioned in the tender for Labor Welfare and Insurance, Regulatory Compliance, Tools, and Safety Precautions. The successful bidder will ensure the implementation of the same.
- xii. Other Conditions:
  - a) The Bidders are requested to examine the instructions, terms and conditions, and specifications given in the Tender. Failure to furnish all required information in every respect will be at the Bidder's risk and may result in the rejection of the bid.

- b) It will be imperative for each Bidder(s) to familiarize itself/ themselves with the prevailing legal situations for the execution of the contract. Department of Food, Civil Supplies and Consumer Affairs HP shall not entertain any request for clarification from the Bidder regarding such legal aspects of submission of the Bids.
- c) It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bids and no claim whatsoever, including those of financial adjustments to the contract awarded under this tender, will be entertained by the Department of Food, Civil Supplies and Consumer Affairs. Neither any time schedule nor financial adjustments arising thereof shall be permitted on account of failure by the Bidder to appraise themselves.
- d) The Bidder shall be deemed to have satisfied itself fully before Bidding as to the correctness and sufficiency of its Bids for the contract and price quoted in the Bid to cover all obligations under this Tender.
- e) It must be clearly understood that the Terms and Conditions and specifications are intended to be strictly enforced. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of Agreement or throughout the period of completion of contract whichever is later on account of any reasons whatsoever.

**Note:** The Bidder shall be solely and completely responsible to the Department of Food Civil Supplies and Consumer Affairs HP and State Govt. for all the deliveries and deliverables.

**8. Clarifications in the Tender:**

- a) A prospective Bidder requiring any clarification in the Tender may notify the Department of Food Civil Supplies and Consumer Affairs by e-mail to [dfs-hp@nic.in](mailto:dfs-hp@nic.in), [hpepds1@gmail.com](mailto:hpepds1@gmail.com) on or before the pre-bid meeting. We encourage paper-free e-mail communication.
- b) The Bidder shall submit any queries related to the Bid document in the following format. The queries should necessarily be in the below-given format:

Sr. No.	Page Reference in the Tender Document	Clause/ Point No. in the tender	Clarification Sought

**Note:** The responses to the clarifications (if deemed fit by the department) will be notified on the websites through Corrigendum to the Tender Document.

**9. Amendments in the Tender document:**

- a) A Pre-bid meeting shall be held for addressing the clarifications on the date and time mentioned in the schedule of the tender process or any other date if deemed fit by the Department of Food, Civil Supplies and Consumer Affairs. The Bidders are requested to participate in the Pre-bid meeting for clarification of their queries.
- b) Before the closing of the Tender, clarifications, and amendments, if any, will be notified on the website mentioned in the schedule of the tender process. The Bidders should periodically check for the amendments or corrigendum or information on the website till the closing date of this Tender. Department of Food Civil Supplies and Consumer Affairs will not make any individual communication and will in no way be responsible for any ignorance pleaded by the Bidders.
- c) Before the closing of the Tender, the Department of Food, Civil Supplies and Consumer Affairs may amend the Tender document as per requirements or wherever the Department of Food Civil Supplies and Consumer Affairs feels that such amendments are necessary.
- d) Amendments, if deem fit, may also be given in response to the queries by the prospective Bidders. Such amendments will be notified on the websites mentioned in the tender schedule.
- e) Department of Food, Civil Supplies and Consumer Affairs, at its discretion, may or may not extend the due date and time for the submission of bids on account of amendments.
- f) Department of Food, Civil Supplies and Consumer Affairs is not responsible for any misinterpretation of the provisions of this tender document on account of the Bidder's failure to update the Bid documents on changes announced through the website.

**10. Language of the Bid:**

The bid prepared by the Bidder as well as all correspondence and documents relating to the bid shall be in English only. The supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation in English duly notarized, in which case, for all purposes of the bid, the

translation shall govern. Bids received without such translation copy are liable to be rejected.

**11. Bid Currency:**

Price should be quoted in Indian Rupees (INR) only and Payment shall be made in Indian Rupees only.

**12. Contacting Tender Inviting Authority:**

- a) Bidders shall not make attempts to establish unsolicited and unauthorized contact with the Department of Food Civil Supplies and Consumer Affairs HP/ Tender Committee after the opening of the Tender and before the notification of the Award and any attempt by any Bidder to induce any extraneous pressures on the Tender Accepting Authority shall be sufficient reason to disqualify the Bidder.
- b) Notwithstanding anything mentioned above, the Department of Food, Civil Supplies and Consumer Affairs may seek bonafide clarifications from Bidders relating to the tenders submitted by them during the evaluation of tenders.

**13. Tender Document Fee:**

The Tender Documents may be directly downloaded from <https://food.hp.nic.in>, <https://hptenders.gov.in>. Bidders who wish to participate in the tender process should submit the tender document fees as mentioned in the data sheet of the tender.

- a) An EMD amount as specified in the schedule of the tender process should be paid by way of a Demand draft.
- b) EMD of the unsuccessful bidders shall be returned at the expense of the Bidders within a reasonable time consistent with the rules and regulations in this regard. The EMD amount held by the Department of Food, Civil Supplies and Consumer Affairs HP till it is refunded to the unsuccessful Bidders shall not earn any interest thereof.
- c) The EMD amount shall be forfeited by the Department of Food, Civil Supplies and Consumer Affairs HP, if the Bidder withdraws the bid during the period of its validity specified in the Tender or if the Bidder fails to sign the contract or the Bidder fails to remit PBG within the respective due dates.

**14. Letter of Authorization:**

A letter of authorization from the Board of Directors / appropriate authority authorizing the Tender submitting authority or a Power of Attorney should be scanned and submitted in the tender; otherwise the Bids shall be summarily rejected. All pages of the Bid, except for amended printed literature, shall be initialed and stamped by the person or persons signing the Bid.

**15. Submission of Pre-Qualification/Technical Bid (Applicable for online submission):**

- a. The Bid document should be properly indexed and page numbered and appropriately flagged/tagged and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bid.
- b. The Bids prepared by the Bidder and all correspondence and documents relating to the Bids exchanged by the Bidder and Department of Food Civil Supplies and Consumer Affairs, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long the same is accompanied by an English translation in which case, for purposes of interpretation of the Bid, the English translation shall govern.
- c. The Tender should be signed on all the pages by the Bidder or his authorized representative and should be affixed with the Bidder's Seal.
- d. It shall be deemed that the Bidders have done careful study and examination of the Tender document and have fully understood the implications.
- e. The response to the Tender should be complete in all respects. Failure to furnish the requisite information or submission of a bid not substantially responsive to the Tender document in every respect will be at the Bidder's risk and may result in rejection of the bid and forfeiture of the EMD.
- f. All materials submitted by the Bidder become the property of the Department of Food Civil Supplies and Consumer Affairs HP and may be returned at its sole discretion.
- g. A firm may submit ONLY ONE bid. Furthermore, a firm that is a Bidder cannot be a Sub-contractor in other bids.
- h. If a Bidder intends to subcontract major items of supply or services, it shall include in the bid details of the name and nationality of the



proposed Subcontractor, including vendors, for each of those items and shall be responsible for ensuring that any Sub-contractor proposed complies with the requirements applicable to a Bidder. For these Bidding Documents, a Sub-contractor is any vendor or service provider with whom the Bidder contracts for the supply or execution of any part of the Contract such as the supply of major components or the performance of related Services.

- i. It is proposed to have a Cover System for this tender:
  - Pre-Qualification Bid/ Technical Bid in one cover
  - Financial Bid in the second cover
- j. The Tender should be submitted online in the e-procurement portal to the department. The bids should be submitted before the closing date and time as mentioned in the document control sheet.

**Note 1:** Scan Copy of Tender Fee and EMD must be uploaded along with Bid Documents online. The hard copy of demand drafts should reach the office of the Director, Food Civil Supplies and Consumer Affairs HP by Date **23.03.2022 till 5:00 PM**

**Note 2:** Evaluation shall be done based on documents uploaded online on the e-Procurement portal. However, the Department of Food Civil Supplies and Consumer Affairs HP reserves the right to seek clarifications on already uploaded online documents.

**16. Validations of Interlineations in the Bids:**

The Bid shall contain no interlineations, erasures, or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person signing the bid.

**17. Cost of Bidding:**

The Bidder shall bear all costs associated with the preparation and submission of its bid including the cost of presentation for clarification of the bid if so desired by the Department of Food, Civil Supplies and Consumer Affairs. Department of Food Civil Supplies and Consumer Affairs shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

**18. Documents Comprising the Bids:**

The bid prepared by the Bidder shall comprise the following components. The Bids not conforming to the requirements shall be summarily rejected.

**18.1 Pre-Qualification Bid (to be submitted online only)**

- a) The Bidder must submit a detailed checklist for the Pre-Qualification/Technical & Financial Bid as mentioned in Annexure-I. Bidders are requested to add a column for page no. in the pre-qualification checklist table and provide the corresponding page no. of the respective criteria.
- b) In support of eligibility, a Bidder must submit the following documents (besides the other requirements of the Tender)
- c) Annexure-II: Bid Cover Letter
- d) Annexure III: Profile of Bidder
- e) The pre-qualification bid should contain scan copy of the Earnest Money Deposit (EMD).
- f) Power of Attorney/ Letter of Authorization executed by the Bidder in favor of the Principal Officer or the duly Authorized Representative, certifying him as an authorized signatory for this Tender.
- g) The declaration that the Bidder has not been debarred and blacklisted by any Govt. / Semi-Govt. organization for quality of services/product and there is no major complaint against the Bidder by any organization as per Format given: Undertaking for participating in the Bid process.
- h) An Acceptance by the Bidder to the Terms & Conditions mentioned in this Tender, Annexure-IV.

### **18.2 Technical Bid (to be submitted online to the Department only)**

- a. The Technical Bid, besides the other requirements of the tender, shall comprise of the following:
  - b. Annexure VI: Technical Bid Letter
  - c. Annexure-VII: A Technical Compliance letter is to be submitted by the Bidder for any additional services required in the project without any additional cost, as mentioned in Annexure-VII.
  - d. Annexure-IX: Project Experience
  - e. Annexure-X: Format for Declaration Pro format(Blacklisting)
  - f. Annexure-XI: Manufacturer Authorization Form(MAF)

### **19 Force Majeure:**

- i. The bidder shall not be liable for the penalty, liquidated damages, or termination for default, if and to the extent that, his delay in performance or other failures to perform his obligations under the contract is the result of an event of Force Majeure.
- ii. For purposes of this clause, “Force Majeure” means an event beyond the control of the bidder and not involving the bidder and not involving the bidder’s fault or negligence and not foreseeable. Such events may

include, but are not restricted to, instances of, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes which would have an impact on FCS&CA.

- iii. If a Force Majeure situation arises, the bidder shall promptly notify FCS&CA in writing of such conditions and the cause thereof. Unless otherwise directed by FCS&CA, the bidder shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. The Force Majeure circumstances and events shall include the following events to the extent that such events or their consequences (it being understood that if a causing event is within the reasonable control of the affected party, the direct consequences shall also be deemed to be within such party's reasonable control) satisfy the appropriate definition as per this agreement. Without limitation to the generality of the foregoing, Force Majeure Event shall include the following classes of events and circumstances and their effects:
- a) Natural events (“Natural Events”) to the extent they satisfy the foregoing requirements including:
  - b) Any material effect on the natural elements, including lightning, fire, earthquake, cyclone, flood, storm, tornado, or typhoon;
  - c) Explosion or chemical contamination (other than resulting from an act of war);
  - d) Epidemic such as plague;
  - e) Any event or circumstance of a nature analogous to any of the foregoing.
  - f) Other Events (“Political Events”) to the extent that they satisfy the foregoing requirements including:
  - g) Act of war (whether declared or undeclared), invasion, armed conflict or act of a foreign enemy, blockade, embargo, revolution, riot, insurrection, civil commotion, an act of terrorism or sabotage; Act of Government Strikes, work to rules, go-slows which are widespread, nation-wide, or State-wide and are of political nature;

**20. Arbitration and Jurisdiction:**

In case of any dispute, the matter will be referred to a Sole Arbitrator to be appointed by the Department of Food Civil Supplies and Consumer Affairs in accordance with the "Arbitration and Conciliation Act 1996". The arbitration shall be held in Shimla, HP, India, and in the English language only.

**21. Penalties**

- 1. Penalty in case of Delay in Project Go-Live:** SI will need to strictly adhere to the implementation schedule and obtain final acceptance as per the schedule. In case there is a delay from Bidder in obtaining the final

acceptance as per the implementation schedule, A penalty @ of Rs. 1 % per week will be imposed which will be deducted from PBG if the period of penalty exceeds 6 weeks the contract will be terminated without giving any notice.

**22. Payment of Taxes:**

1. The quoted rates/ offer should be inclusive of all applicable taxes. Department of Food Civil Supplies and Consumer Affairs HP shall deduct TDS (Tax deduction at Source) as per the Income- Tax Act, 1961 and other taxes if any as per Government of India rules certificate shall be issued in this regard

2. All payments will be made subject to GST will be as per prevailing rates.

**23. Bid Validity:**

The bids submitted by the Bidders should be valid for a minimum period of 180 days from the date of opening of the Tender. However, the Department of Food Civil Supplies and Consumer Affairs reserves the right to extend or short close the Tender validity period if the situation warrants benefiting the Govt.

**24. Initial Scrutiny:**

Initial Bid scrutiny shall be conducted and incomplete details as given below will be treated as non-responsive if tenders are:

- a) Not submitted as per the procedure of submission of Bids as specified in the Tender
- b) Received without the Letter of Authorization
- c) Received without tender fee and EMD amount
- d) Are found with suppression of details with incomplete information, subjective, conditional offers, and partial offers
- e) Submitted without supporting documents as per the Pre-qualification Criteria and Evaluation Criteria
- f) Non-compliance with any of the clauses stipulated in the Tender
- g) Lesser validity period
- h) Conditional bid

All responsive Bids shall be considered for further evaluation. The decision of the Department of Food Civil Supplies and Consumer Affairs HP. will be

final in this regard.

**25. Suppression of Facts and Misleading Information:**

- a) During the Bid evaluation, if any suppression or misrepresentation of facts is brought to the notice of the Department of Food, Civil Supplies and Consumer Affairs HP, the department shall have the right to reject the Bid and if after selection, the Department will terminate the contract, as the case may be, without any compensation to the Bidder and the EMD / PBG, shall be forfeited.
- b) Bidders should note that any figures in the proof documents submitted by the Bidders for proving eligibility are found suppressed or erased, the Department shall have the right to seek the correct facts and figures or reject such Bids.
- c) It is up to the Bidders to submit the full copies of the proof documents online to the Department of FCS &CA to meet out the criteria of the Tender. Otherwise, the Department at its discretion may or may not consider such documents.
- d) The Tender calls for full copies of documents online to prove the Bidder's experience and capacity to undertake the project.

**26 Letter of Acceptance:**

- i. The final acceptance of the Tender is entirely vested with the Department of Food, Civil Supplies and Consumer Affairs HP who reserves the right to accept or reject any or all of the tenders in full or in parts without assigning any reason whatsoever. The Tender Accepting Authority may also reject all the tenders for reasons such as change in scope, specification, lack of anticipated financial resources, court orders, calamities, or any other unforeseen circumstances. After acceptance of the Tender by the Department, the Successful Bidder shall have no right to withdraw their tender or claim a higher price.
- ii. After acceptance of the Tender by the Department, a Letter of Acceptance (LoA) will be issued to the Successful Bidder.

**27 Payment of Performance Bank Guarantee:**

- a) Successful Bidder shall submit Performance Bank Guarantee of an amount Ten percent of the contract value in the form of unconditional irrevocable Bank Guarantee valid for a period as specified in purchase/work order. The PBG shall be paid within 7 working days from

the date of issue Letter of Acceptance (LoA) by the Department of Food Civil Supplies and Consumer Affairs. The PBG furnished by the Successful Bidder in respect of the tender shall be returned to them after successful fulfillment of work.

- b) The PBG shall be forfeited if the Successful Bidder withdraws the Bid during the period of contract.

**28 Execution of Contract:**

- a. The Successful Bidder should execute a Contract on INR 100 non-judicial Stamp Paper (bought in the name of the Successful bidder within one week from the date of Letter of Acceptance issued by Department of Food Civil Supplies and Consumer Affairs HP with such changes/modifications as may be indicated by the Department at the time of execution on receipt of confirmation from Department.
- b. The Successful Bidder shall not assign or makeover the contract, the benefit or burden thereof to any other person or persons or body corporate for the execution of the contract or any part thereof without the prior written consent of Department of Food, Civil Supplies and Consumer Affairs HP. The Department reserves its right to cancel the work order either in part or full if these conditions are violated. If the Successful Bidder fails to execute the agreement, the PBG of the Successful Bidder will be forfeited, and their tender will be held as non-responsive.
- c. The expenses incidental to the execution of the agreement shall be borne by the Successful Bidder. The conditions stipulated in the agreement should be strictly adhered to and violation of any of the conditions shall entail termination of the contract without prejudice to the rights of the Department and the Department also have the right to recover any consequential losses from the Successful Bidder.

**29 Release of Work Order:**

After signing of the Agreement, a “Work Order” for the execution of Services shall be issued to the Successful Bidder by the Department of Food, Civil Supplies and Consumer Affairs.

**30 Release of EMD:**

If the Successful Bidder submits PBG of the stipulated value in full by way of Bank Guarantee, the EMD will be refunded after signing the

Contract/ Agreement between Bidder and Department of Food Civil Supplies and Consumer Affairs HP. The EMD amount of the Unsuccessful Bidder will be refunded after the finalization of the Successful Bidder.

**31 Release of Performance Bank Guarantee:**

The Performance Bank Guarantee will be refunded to the Successful Bidder on completion of the entire scope of work (including maintenance) subject to satisfaction of the Department. Such completion would be arrived at when the entire project is completed by the successful Bidder as per the Contract Agreement done by the Department of Food Civil Supplies and Consumer Affairs HP.

**32 Forfeiture of EMD and Performance Bank Guarantee:**

- a) If the Successful Bidder fails to act according to the Tender conditions or backs out, after the Tender has been accepted, the EMD will be forfeited by the Department of Food Civil Supplies and Consumer Affairs HP. If the Successful Bidder fails to remit the PBG, the EMD remitted by him will be forfeited by Department and the Tender will be held void.
- b) If the Successful Bidder fails to act upon the Tender conditions or backs out from the contract, the PBG mentioned above will also be forfeited by Department.

**33 Termination of contract:**

**33.1 Termination for Default**

Department of Food Civil Supplies and Consumer Affairs HP may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 15 days, sent to the Successful Bidder, terminate the contract in whole or part:-

- a. If the Successful Bidder fails to deliver the services within the stipulated time specified in the Contract, or within any extension thereof granted by Department; or
- b. If the Successful Bidder fails to perform any of the obligation(s) under the Contract; or
- c. If the Successful Bidder, in the judgment of the Department, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.

**33.2 Termination for Insolvency**

Department of Food Civil Supplies and Consumer Affairs may at any time

terminate the Contract by giving written notice with a notice period of 15days to the Successful Bidder if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, the termination will be without compensation to the Successful Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter.

**34 Assigning of Tender whole or in part:**

The Successful Bidder shall not assign or makeover the contract, the benefit or burden thereof to any other person or persons or body corporate. The Successful Bidder shall not under-let or sublet to any Person (s) or body corporate for the execution of the contract or any part thereof without the written consent of the Department of Food Civil Supplies and Consumer Affairs.

**35 Rejection Criteria:**

Besides other terms & conditions highlighted in the Tender, bids may be rejected under the following circumstances

**35.1 General Rejection Criteria**

- a) Bids submitted without or improper Tender fee and EMD
- b) Bids received through Telegraphic / Fax/E-Mail/ Hard copies except, wherever required.
- c) Bids that do not conform to the unconditional validity of the bids as prescribed in the TENDER.
- d) If the information provided by the Bidder is found to be incorrect/misleading at any stage/time during the Tendering Process
- e) Any effort on the part of a Bidder to influence the Purchaser's bid evaluation, bid comparison, or contract award decisions
- f) Bids received by the Purchaser after the last date for receipt of bids prescribed by the Purchaser
- g) Bids without authority to sign any document

**35.2 Technical Rejection Criteria**

1. Technical Bid containing financial details.
2. Re-elevation of Prices in any form or by any reason before the opening of the Financial Bids
3. Failure to furnish all information mentioned in the Tender or submission of a bid is not substantially responsive to the Tender in every respect.



4. Bidders not quoting for the complete scope of work as indicated in the tender, addendum (if any), and any subsequent information given to the successful Bidder.
5. The Bidder not conforming to the unconditional acceptance of full responsibility of providing services and Scope of work of this Tender.
6. If the bid does not conform to the timelines indicated in the Tender.

### **35.3 Financial Rejection Criteria**

1. Incomplete Financial Bid
2. Financial Bids that do not conform to the Tenders' financial bid format
3. If there is an arithmetic discrepancy in the financial bid calculations, the Purchaser shall rectify the same. If the Bidder does not accept the correction of the errors, it may be rejected.
4. Aggressively lower or higher quoted rates.

**Director  
Food Civil Supplies & Consumer Affairs, HP  
SDA Complex, 42, Kasumpti, Shimla- 171009**

**Annexure-I- Pre-Qualification criteria Check List**

<b>Sr. No</b>	<b>Documents Required</b>	<b>Yes/No</b>
1.	The Bidder/OEM must be a Company/ Partnership Firm/ Proprietorship Firm, Registered with the relevant authority.	
2.	The Bidder/OEM should be in the business of supply, installation, and maintenance of quoted Machineries & Equipment's for the last 3 years.	
3.	The Bidder/OEM should have import export license if the machinery/ equipment is required to be supplied from the overseas.	
4.	The Bidder/OEM should have turnover of ₹ 5.00 Crores on an average in the last 3 financial years (2018-2019 2019-20,2020-21)	
5.	Income Tax returns for three financial years (2018-2019 2019-20,2020-21)	
6.	The Bidder shall be OEM of Equipment's or Authorized Distributor of the OEM (Only one BID will be considered either of OEM or Authorized Distributor)	
7.	The Bidder/ OEM shall have a valid ISO 14046:2014 certifications for environment management and ISO 9001:2015 certification for quality Management System or latest and equivalent	
8.	The Bidder/OEM shall be registered for GST and shall have a valid PAN number or any other registration for paying taxes or levies.	
9.	The Bidder/ OEM shall not have been blacklisted by Central Government or any State Government Organization / Department PSU in India in the last 5 years.	
10.	STQC, CE, RoHS or equivalent certifications of the machineries/ equipment's is required.	
11.	Acceptance of the terms and conditions contained herein in the format as given in the tender document	

**Annexure-II-Bid Cover Letter (To be submitted on Letter Head)**

To

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**Subject: Online tender for purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh**

Dear Sir,

With reference to your TENDER Document dated ....., I/We, having examined all relevant documents and understood their contents, hereby submit our bid for purchase of machineries & equipment's for the Departmental Laboratory in the State of Himachal Pradesh.

The Proposal is unconditional and unqualified.

- a. All information provided in the bid and the Appendices is true and correct and all documents accompanying such Proposal are true copies of their respective originals.
- b. I/We shall make available to the Authority any additional information it may deem necessary or require for supplementing or authenticating the Proposal.
- c. I/We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
- d. I/We to the best of our knowledge certify that in the last five years, we nor any of our Associates have neither failed to perform on any contract, as evidenced by the imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.
- e. I/We understand that you may cancel the Selection Process at any time and that you are neither bound to accept any bid that you may receive nor to select the agency, without incurring any liability to the Bidders

- f. I/We to the best of our knowledge certify that we or any of our Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast doubt on our ability to undertake the Consultancy for the Project or which relates to a grave offense that outrages the moral sense of the community.
- g. I/We to the best of our knowledge further certify that concerning matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Govt. or convicted by a Court of Law for any offense committed by us or by any of our Associates.
- h. I/We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority and/ or the Govt. of India in connection with the selection of agency or in connection with the Selection Process itself in respect of the above mentioned Project.
- i. I/We agree and understand that the Proposal is subject to the provisions of the tender document. In no case, shall I/We have any claim or right of whatsoever nature if my or our Proposal is not opened or rejected.
- j. I/We agree to keep this offer valid for 180 days from the Proposal Due Date specified in the TENDER.
- k. I/We agree and undertake to abide by all the terms and conditions of the tender document. In witness thereof, I/We submit Proposal under and in accordance with the terms of the tender document.

Yours faithfully,

(Signature, name and designation of the authorized signatory)  
(Name and seal of the firm)

### Annexure-III-Profile of the Bidder

Sr. No.	Particulars	Documentary proof submitted for the compliance as applicable along with the page No. reference
1.	Name of the Company	
2.	Year of incorporation	
3.	Nature of the Company (Registered Company)	
4.	<b>Registered Office Address</b>	
	Office Telephone Number	
	Fax Number	
5.	<b>Contact Person</b>	
	Name	
	Personal Telephone Number	
	Email Address	
6.	<b>Local presence at Himachal Pradesh (if any)</b>	
	Telegraphic Address	
	Office Telephone Number	
	Fax Number	
7.	<b>Contact Person</b>	
	Name	
	Personal Telephone Number	
	Email Address	
8.	<b>Registration Details</b>	
	Permanent Account Number	
	GSTN Registration Number	
9.	Banker's Name, Address and Account Number	
10.	Certificate of Incorporation	

**Annexure-IV- Declaration of Acceptance of Tender Terms & Conditions**

To,

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Dear Sir,

I/we have carefully gone through the Terms & Conditions contained in the TENDER document [Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4)] regarding “purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh”. I/we declare that all the provisions of this Tender Document are acceptable to my company/Firm.

I/we further certify that I am/we are authorized signatory of the company and, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name & Designation

Business Address:

## **Annexure-V-Financial Bid Letter**

To,

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**Subject: Online tender for purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh.**

**Reference: Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4)**

Sir/ Madam,

I/ We, the undersigned Bidder, having read and examined in detail all the Tender documents in respect of Bid for purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh. I/ We do hereby propose to provide services as specified in the Tender document number **FDS-24 (Modernization of Lab/2017) Vol-I (T-4)**

**1. Price and Validity**

All the prices mentioned in our Tender are in accordance with the terms as specified in the Tender documents. Charges will be valid for the entire contract period and during the extended period on mutual consent basis (If extended)

**2. Unit Rates**

I/we have indicated in the relevant schedules enclosed the unit rates for/on account of payment under the scope of the work contract.

**3. Deviations**

I/we declare that all the services shall be performed strictly in accordance with the Tender documents except for the variations and deviations, all of which have been detailed out exhaustively in the following statement, irrespective of whatever has been stated to the contrary anywhere else in our bid.

Further I/we agree that additional conditions, if any, found in the Tender

documents, other than those stated in the deviation schedule, shall not be given effect to.

**4. Tender Pricing**

I/we further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in Tender documents.

**5. Qualifying Data**

I/we confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

**6. Bid Price**

I/we declare that our Bid Price is for the entire scope of the work as specified in the Tender documents. These prices are indicated as per the format provided with this Tender as part of the Tender.

**7. Contract Performance Guarantee**

I/we hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as described in this tender

I/we hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

I/we understand that our Tender is binding on us and that you are not bound to accept a Tender you receive.

I/we confirm that no deviations are attached herewith this financial offer.

Thanking you,

Yours faithfully,|

(Signature of the Bidder)

Name Designation

Seal Date: Business Address



## **Annexure-VI-Technical Bid Letter**

To,

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**Subject: Online tender for purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh.**

**Reference: Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4)**

Sir/ Madam,

I/we, the undersigned Bidders, having read and examined in detail all the Tender documents do hereby propose to provide the services as specified in the tender document number..... along with the following:

**1. Earnest Money Deposit(EMD)**

I/we have enclosed an EMD in the form of Demand Draft in favor of Director, Food Civil Supplies and Consumer Affairs, Himachal Pradesh, for the sum of INR **5,00,000/-** (Rupees Five Lakh only). This EMD is liable to be forfeited in accordance with the provisions of the tender document - General conditions of the contract.

**2. Contract Performance Guarantee**

I/we hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as described in this tender i.e. @ 5% of the contract value.

**3. Bid Validity Period:**

I/we agree to abide by this bid for a period of 180 days after the date fixed for bid opening or for any further period for which bid validity has been extended and it shall remain binding upon us and Bid may be accepted at any time before the expiration of that period.

I/we hereby declare that our bid is made in good faith, without collusion or

fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

I/we understand that our bid is binding on us and that you are not bound to accept a bid you receive.

Thanking you,

Yours faithfully,

(Signature of the Bidder)

Name Designation

Business Address:

**Annexure-VII-Technical Compliance**  
(To be submitted in Bidder's letterhead)

It is to certify that the tender document– Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4) dated 02.03.2022 is carefully read & understood and all the sections and clauses have **COMPLIED UNCONDITIONALLY AND UNEQUIVOCALLY**. There is no deviation from the terms & conditions of the tender.

I/we hereby also confirm that the solution proposed by us will meet the project requirements. If any additional components/services are required to meet the project requirements at any stage during the contract period, we will provide the same without any additional cost to the authority.

Signature of Authorized Signatory of the  
Bidder  
Company Seal  
Date

## Annexure-VIII-Project Experience

Sr. No.	Item	Details
<b>General Information</b>		
1.	Customer Name/Government Department	
2.	Name of the Contact Person and Contact details for the Project	
<b>Brief Description of scope of Project</b>		
<b>Size of the Project</b>		
3.	Contract Value of the Project (in crore)	
<b>Project Details</b>		
4.	Name of the Project	
5.	Start Date / End Date	
6.	Current Status (work in progress, completed)	
7.	Contract Tenure	
8.	Type of Project	

**Annexure-IX–Declaration Pro format (Notarized on Stamp Paper of Rs.100/-)**

To,

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**Subject: Declaration for not being under ineligibility for corrupt or fraudulent practices or blacklisted/debarred with any of the Government or Public Sector Units**

Reference: Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4)

Dear Sir/Madam,

I/ we, the undersigned, hereby declare that we are not under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted/debarred with any of the Government or Public Sector Units as on bid submission date.

Thanking you,

Yours faithfully,

(Signature of the Bidder)

Printed Name Designation

Business Address:

**Annexure-X- Manufacturer Authorization Form (MAF)**

To

Date

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Sir,

I/ we hereby authorize M/s\_\_\_\_\_to undertake to submit a Bid, and subsequently negotiate and sign the contract with the purchaser against Tender Ref No: **FDS-24 (Modernization of Lab/2017) Vol-I (T-4)** for the (type the Description of equipment's) developed by us. I/ we hereby extend our full warranty for the equipment's offered for supply by the above firm against this tender.

I/ we also undertake to provide timely supplies as per terms of the tender and as agreed mutually and also to provide trouble-free and continuous support either directly or through our authorized partners under our supervision during the said support period. We will provide the necessary support in the event of up-gradation of any of the software is necessitated while providing the support will arrange for complete replacement of the item(s) with an equivalent / higher version.

For this tender I/ we authorize M/s.\_\_\_\_\_(Complete address and full contact details of the partner) to be our sales and service partner. In the event of discontinuation of supply and service by our partner or any problem arises during provision of supply and services, the entire responsibility to provide trouble-free and continuous supply and services to the end-user rests with us, and I/ we undertake to provide supply and services directly or through our alternative sales/service partners.

In case of violation of any of the conditions above, I/We understand that I/We are liable to be blacklisted by the Department of Food Civil Supplies and Consumer Affairs for a period of five years.

(Signature)

**Annexure-XI–Undertaking for Participating in the Bid process  
(To be submitted in Bidder’s Letter Head)**

**To**

\_\_\_\_\_  
\_\_\_\_\_

**Sub: Undertaking for participating in Bid for purchase of machineries & equipments for the Departmental Laboratory in the Department of Food, Civil Supplies & Consumer Affairs Himachal Pradesh.**

**Ref: Tender Ref No: FDS-24 (Modernization of Lab/2017) Vol-I (T-4)  
Sir,**

**I/We\_ have gone through the tender document and abide by them in all respects.**

**I/We\_ hereby confirm that our firm was not blacklisted by any State Govt. / Central Govt. / Public Sector Undertakings during the last five years. We also hereby confirm that our EMD/PBG was not forfeited by any State Govt. / Central Govt. / Public Sector Undertakings during the last five years.**

**I/We \_\_\_\_\_ hereby declare that all the information furnished by us in this bid are true to the best of my/our knowledge and we understand and accept that if at any stage, the information furnished is found to be incorrect or false, we are liable for disqualification from this tender and also are liable for any penal action that may arise due to the above.**

**I/We \_\_\_\_\_ certify that we are liable and responsible for any disputes arising out of Intellectual Property Rights.**

**In case of violation of any of the conditions above, I/We \_\_\_\_\_ understand that I / We are liable to be blacklisted by the department for a period of five years.**

**Yours faithfully for**

**Name, Signature Designation  
Seal**