



**Government of Kerala**  
**Directorate of Dairy Development Department**  
**Pattom, Thiruvananthapuram**

**Notice Inviting Re-Tender**

**Ref : File No:DDDKER/3026/2023-F1**  
**Date : 27/12/2024 .**

e-Tenders (online bids only) are invited through Kerala Government official e-Procurement portal <https://etenders.kerala.gov.in> for the **Supply of Water Purification System** as per the details and terms and conditions given below.

**TENDER DETAILS**

<b>Sl No</b>	<b>Description</b>	
1.	<i>Mode of Tender submission</i>	<i>Online through e-Procurement portal at <a href="https://etenders.kerala.gov.in">https://etenders.kerala.gov.in</a></i>
2.	<i>Tender inviting Authority</i>	<i>Director, Dairy Development Department</i>
3.	<i>Date &amp; Time of Publication of Tender</i>	<i>27/12/2024</i>
4	<i>Last date with time for receipt of Tender</i>	<i>10/01/2025 5pm</i>

5	Date of opening of Tenders	13/01/2025	
6	Estimate Amount	8,00,000/-	
7	Earnest Money Deposit (EMD)	<b>Rs. 8,000/-</b> 1% (rounded to the nearest rupees) of the total cost, subject to a minimum of 1,500	Online Remittance only through <a href="https://etenders.kerala.gov.in">https://etenders.kerala.gov.in</a>
8	Tender Fee	0.15% OF COST. ROUND TO NEAREST 100. Max. Rs. 25000 Rs. 1200 + GST@ 18% Rs. 216= <b>Rs. 1416/-</b>	
9	Contact Person of Department of Dairy Development for inquiry of technical details	Smt. Sheeba Khamer Joint Director (SDL) Directorate of Dairy Development, Pattom, TVM Ph:9495818683	
10	Name & address where queries/correspondence concerning this tender is to be sent	Department of Dairy Development, Pattom Palace P O, Pattom, Thiruvananthapuram . 695004 <b>e-mail: <a href="mailto:cru.ddd@kerala.gov.in">cru.ddd@kerala.gov.in</a></b> <b><a href="mailto:jd-sdl.dairy@kerala.gov.in">jd-sdl.dairy@kerala.gov.in</a></b> 0471 2440074 <b>Website: <a href="http://www.dairydevelopment.kerala.gov.in">www.dairydevelopment.kerala.gov.in</a></b> <b>in</b>	

### TECHNICAL SPECIFICATION

#### Technical Specification for Water Purification Systems

	TENDER SPECIFICATION	
	Laboratory Type 1 & 2 Water Purification System	
	Lab water purification system suitable for all laboratory application such as general lab purpose like chemical and biochemical reagent preparation, using in autoclave, general lab equipment's , for media preparation, buffer preparation in	

	Microbiology and Analytical use in HPLC/LCMS , GC, AAS.		
SI NO	MINIMUM REQUIREMENTS		COMPLIANCE YES/NO
	PARAMETERS	REQUIREMENTS	
1	Type 1 Water @ 25°C		
1.1	Resistivity	18.2 Mega Ohms.cm @ 25 Degree C.	
1.2	Conductivity	0.055 $\mu$ S/cm	
1.3	TOC	$\leq$ 5 ppb	
1.6	Bacteria	< 0.01 cfu /ml or better	
1.7	Particulates ( $\leq$ .22 micron )	< 1 /ml or Better	
1.8	RNAse	< 0.003 ng/ml or better	
1.9	DNAse	< 5 pg/ml or better	
	Endotoxin	< 0.001 EU/ml or better	
1.10	Flow rate	$\geq$ 1 Ltr/Minute	
2	Type II water @ 25°C		
2.1	Resistivity	1-10 Mega Ohms.cm @ 25 Degree C. or Better	
2.2	Conductivity	0.1-1.0 $\mu$ S/cm or Better	
2.3	Flow rate	$\geq$ 16Ltr/hour	
2.4	Storage tank of capacity	$\geq$ 60 Ltr	
3	OTHER		
3.1	System should be quoted along the external Pre-treatment ( Same Brand )		
3.2	System should be able to produce Endotoxin and bacteria free ultrapure water Type 1 and Type 2 directly from potable water supply		
3.3	System should be capable of providing ASTM Type I (18.2 Mega ohm resistivity) Water and have the UF cartridge to cater Biological applications		
3.4	System should be capable of providing ASTM Type II (1-10 Mega ohm resistivity) Water from potable tap water		
3.5	System has feed water acceptance level of Conductivity upto 1500 $\mu$ S/cm or more, Fouling Index ( SDI) > 3 and Total Chlorine less than 0.1 ppm or more		

3.6	System should have a pre-treatment kit with 1µm filter, Harness Stabilizer, Carbon and So On		
3.7	Reverse Osmosis module is made up of thin film composite polyamide RO membrane with rejection rate of 94 - 99%		
3.8	System has feed water specific Purification pack before UV lamp consisting of mixed bed ion exchange resin/ micro filter / activated carbon to ensure better purification and longer life of the cartridges.		
3.9	UF should be provided with minimum life of 2 years.		
3.10	System should have UV-oxidation for reducing the content of microorganisms and their metabolites to ensure the quality of Type 1 water		
3.11	System should have reservoir 60 ltr or more in volume. Water is to be recirculated through High Purity Cartridge to maintain purity of Type 2 water in tank		
3.12	System should be quoted with One set of Consumables including RO		
3.13	Service and spare availability of brand for 10 years to be given as agreement on stamp paper		
3.14	Feed Water quality and Force regulation System should be in the quote		
3.15	System should have RO Flow rate 16 Ltr/hour or more		
4	ACCESSORIES		
4.1	<ul style="list-style-type: none"> <li>• All other Accessories and Components for Proper Working of Equipment at Full Fledge.</li> <li>• Necessary Accessories and Connectors to Supply Feed Water.</li> </ul>		
4.2	Complete Cables and Tubing's	1 Set	
5	Method	Official approvals: ASTM D 1193 , ISO 3696	
6	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> <li>• Application Book is to be Available</li> </ul>	
7	Recommendations	Any warning signs would be	

	or Warnings	adequately displayed	
8	Warranty	<p>3 year after satisfactory installation and working.</p> <p>With 3 Free Preventive Maintenance per Year Under Warranty Period.</p> <p>The Warranty Includes all the Parts including Consumables.</p> <p>Provision should be there to extend the warranty up to 2 years (at least)</p>	
9	AMC	Amc Quote for next 7 years after warranty	
10	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	
11	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	
12	Quality Requirement	<ul style="list-style-type: none"> <li>• <b>Should have necessary certification for safety and quality standards from national /International bodies</b></li> </ul>	
13	IQ/PQ/OQ	<p>On site IQ, OQ of instrument along with document to be provided &amp; supplier to assist till satisfactory PQ of instrument</p> <p>PQ Certificate should be issued by Bidder at his cost on Demanded by the Buyer.</p>	
14	After sales service/ Post	<ul style="list-style-type: none"> <li>• <b>Contact details of manufacturer,</b></li> </ul>	

	warranty	<p>supplier and local service persons, Application specialist to be provided, including toll free/ Landline Number; and mobile number</p> <ul style="list-style-type: none"> <li>• Details of Service centres in INDIA and Minimum 2 service Engineers in South India with their names and mobile numbers</li> <li>• 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>• Service and spare availability of brand for 10 years to be given as agreement on stamp paper</li> </ul>	
15	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.	
16	Outage conditions	<p>After 3 years of warranty period, 7 years of AMC shall be undertaken by the supplier. This would also include:</p> <ul style="list-style-type: none"> <li>• Preventive maintenance service: The seller will provide a minimum of 3 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> </ul>	

- **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.
- **Response time:** The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer.
- **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.
- **The Supplier /brand** should be reputed with atleast 10 users for Type 1 & 2 Water Purification System in India and able to produce atleast 3 performance certificate of same machine from users including Government Labs/Reference labs
- **Company/Brand** should have an experience of 10 years in the supply of Type 1 and Type 2 water purifier system
- **OEM authorization certificate** is required
- **The delivery challan** shall indicate the model number & serial number of items delivered
- **All equipment's** should be from a reputed OEM of non-Chinese origin as per MHA guide lines
- **Bidder** must have minimum 10 cores or above Turnover for the last 3 years (Attach Proof)
- **Buyer** reserves the right to reject/accept the items based on the market survey
- **The bidder** should clearly

		<p>mention the make and model number in BOQ compliance</p> <ul style="list-style-type: none"> <li>• The firm should clearly satisfy the warranty terms and the quoted items should meet all the technical specifications.</li> <li>• Quoted price should be inclusive of all taxes ,installation, training, freight loading and unloading</li> </ul>	
17	Additional Requirements	<ul style="list-style-type: none"> <li>• System,Consumables and Accessories should be from the same manufacturer .</li> <li>• The instrument shall be delivered with a Verification Test document that certifies that instrument has been performance tested in factory (confirming analysis performance).</li> <li>• The Instrument shall strictly confirm to the specifications with <b>relevant brochure and photograph</b> and website information of the product</li> </ul>	
18	Payment	Payment only after installation, validation and performance	
19	Delivery	30 Days From the Date of Work Order	

### **Mandatory documents required to be uploaded**

Proposed product specifications shall be included as scanned signed copies in the e portal along with Tender

1. Covering Letter
2. General Information of the company and company profile, Company Registration details  
Legal identity
3. Detailed component wise technical specification
4. Product certificate and Legal certifications.
5. Experience pertaining to supply of Water Purification System for at least 10 years.
6. No. of installations supplied nationwide during last 5 years with Customer reference list
7. No. of installations supplied in Kerala state during last 5 years
8. No. of installations supplied to Government firms / institutions last year
9. Copy of work/purchase orders(at least 5 nos for last 2 years.
10. Details of service centers and service personnel in Kerala with contact details.
11. Annual turn over of Rs 10 crores or above for the last 3 years ( proof to be attached)
12. If the supplier is not the original manufacturer ,authorization certificate has to be submitted along with tender



**Important Terms and Conditions:**

1. Bids and Tender Documents, signed physically and/or digitally with a valid Digital Signature Certificate, are to be submitted online only in the designated covers on the official web portal of e Tenders Kerala.
2. Bidders who apply for supply of Water Purification System only be considered for technical tender evaluation. Others will be rejected.
3. Financial Bids should be uploaded only in the specific BOQ form available on the web portal against this Tender. Tenders, which are not in the prescribed BOQ form, are liable to be rejected.
4. Payment of the Total amount of EMD & Tender Fee should be made through Online Payment mode as a Single Transaction only.
5. An agreement should be executed and signed by the Tenderer in the Kerala Stamp Paper of value Rs.200/-. A specimen form of agreement is given in the Tender Documents. Hard Copy of this agreement should be send to the Tender Inviting Authority on award of contract.
6. Online Opening of the Tenders will be done on the specified Date and Time through the official web portal of Tenders Kerala.
7. All items quoted must comply with the respective Specifications mentioned in the Tender notice and Bidders should upload the details and specifications of their items quoted.
9. The final total rates of Water Purification System will be considered for selection of L1 bidder. No separate item will be considered .
10. The successful tenderer should supply the Item within 30 days of execution of agreement of contract.
11. The Tender Inviting Authority (TIA) will not be responsible for any sort of the delay or the difficulties faced during the submission of bids through online by the bidders.
12. In addition to these all other General Conditions annexed in the Stores Purchase Manual of Government of Kerala are also applicable to this tender.
13. Withdrawal from the tender after it is accepted or failure to execute agreement within a period of 15 days from the date of acceptance of the supply order will entail cancellation of the order forfeiting the EMD
14. No representation of enhancement of price once accepted will be considered.
15. payment will be made after performance evaluation by the DDD.
16. Successful bidder should furnish as performance security as per SPM (5% of total value of contract).
17. If the contractor fails to deliver all or any of the stores or perform the service within the time period/ specified in the contract, DDD shall without its other remedies under the contract, deduct from the contract price as liquidated damages, a sum equivalent to 0.5% or 1% of the delivered price of the delayed stores or unperformed services for each week of delay until actual delivery or performance, upto a max: deduction of 10% of the contract prices. Once the max: is reached will consider for termination.
18. The prices quoted should be inclusive of all taxes and duties etc.
19. The general conditions/rules in SPM and orders issued by the Government of Kerala will be applicable to this tender

DIRECTOR