



FOREST INDUSTRIES (TRAVANCORE) LIMITED

(A KERALA GOVERNMENT COMPANY)
THAI KKATTUKARA P.O., ALUVA - 683 106,
KERALA STATE
CIN:U02001KL1946SGC000373

Ref No. FIT/PUR/01/2026/355

22.05.2026

QUOTATION NOTICE

Sealed competitive quotations are invited from registered, experienced firms or authorized dealers for the **Supply, Installation, Testing, and Commissioning of an Open/Bore Well Water Filtration and Treatment Unit** at our company premises in Thaikattukara, Aluva.

The treatment system must be custom-engineered to process raw water from our existing well source. The engineering design must adhere strictly to the benchmark values, methodology, and acceptance parameters detailed in the official **Kerala Water Authority (KWA) Quality Control District Laboratory Report** (Reference testing date: 21.03.2026).

1. General Specifications & Design Standards (As Per Laboratory Parameters)

The system must successfully correct and stabilize the specific physical, chemical, and biological parameters identified in the laboratory analysis to meet the **Acceptable Limits** of standard drinking water specifications:

Sl. No.	Quality Parameter Tested	Observed Raw Value	Required Treatment Target / General Specification
1	Bacteriological Analysis	Total Coliform present (>100 CFU/100ml)	Complete Eradication (Must be Absent / 0 CFU/100ml). The system must include an inline disinfection system (high-intensity UV or metered chlorine dosing) to guarantee biological purity.
2	Hydrogen Ion Concentration (pH)	5.99	Neutralization to stable range (6.5 – 8.5). The unit must incorporate an active alkaline media correction stage (such as Calcite/Dolomite profiling) to raise the pH level and eliminate water acidity.
3	Turbidity	0.28 NTU	Maintenance below 1.0 NTU. Fine sediment/dual-media pre-filtration must preserve or improve clarity.
4	Iron (as Fe)	0.16 mg/l	Maintenance below 1.0 mg/l. Filter media must handle standard background trace elements without fouling.
5	Total Dissolved Solids (TDS)	54.0 mg/l	Maintenance below 500.0 mg/l. General processing must maintain natural mineral balance without unnecessary stripping.
6	Total Hardness (as CaCO ₃)	40.0 mg/l	Maintenance below 200.0 mg/l.
7	Chloride (as Cl)	21.30 mg/l	Maintenance below 250.0 mg/l.

2. Scope of Work & Equipment Configuration

The selected vendor will be responsible for:

- **Pre-Filtration System:** Multi-grade pressure sand filter and activated carbon filter housed in heavy-duty FRP vessels to eliminate residual trace particles and odor.
- **Correction & Treatment Arrays:** Online pH balancing media columns and an automatic disinfection unit sized to process the incoming open-well pump output.
- **System Integration:** Full plumbing, bypass valves, pressure gauges, and multi-port control valves integrated between the existing raw well-pump line and the final overhead delivery tank.



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3. Submission & Terms

- **Warranty:** Minimum 1-year comprehensive on-site warranty covering all parts, media performance, and structural integrity.
- **Validation:** Final validation requires a clean post-installation laboratory report confirming that pH and bacteriological profiles match the specified targets.
- **Last Date & Time for Submission:** up to 01.06.2026 **3:00 PM**
- **Opening Time :** 01.06.2026 **3:30 PM**
- **Cover Superscription:** "Quotation for Well Water Filtration Unit - Ref No: FITL/PUR/01/2026/355"

Sealed envelopes should be addressed directly to:

**The Managing Director,
Forest Industries Travancore Limited,
Thaikkattukara P.O., Aluva, Kerala – 683106**

Sd/-
Managing Director
Forest Industries (Travancore) Limited

Copy:-

Company Website
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