

Findings and Methodology At a Glance

Water Test Kits in Ahmedabad, India



Findings at a Glance

Single Parameter Water Test Kits



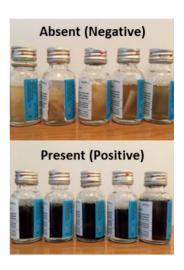
The technical performance of the two water test kits was nearly identical: 94% accurate



Participants who saw a demo of recommended use were 68% more likely to use it correctly than those who were just read the instructions



The **cost of the test was acceptable** to low-income survey participants, but these **tests are not available** in retail outlets



Comparative Ratings Chart

	Technical Score	Ease of Use Score	Availability Score	Affordability Score	Demand Score	Total Score
Weightings	20%	20%	20%	20%	20%	100%
OrLAB/Bactovial	•	•	0	•	•	•
Jal-TARA/Aquacheck	•	•	0	•	•	•

Key: ● Excellent ● Very Good

● Good ● Fair ○ Poor

Multi-Parameter Water Test Kits

For low-income consumers, reagent-type kits ranked higher than incubator-type kits due to the high cost differential.

On average, potential buyers valued ease of use & affordability the most, and availability and demand generation least.





Comparative Ratings Chart

Brand & Model	Technical Score	Ease of Use Score	Availability Score	Affordability Score	Demand Score	Environmental & Health Score	Overall Score					
Incubation Type Test Kits												
Hach		•		•	0	•	64					
Wagtech		•	•	•	0	•	59					
Sandberg	•	•	•	0	0	•	49					
DelAgua	•	0			•	•	49					
ELE	•	0	•	0	0	•	28					
Reagent Type Test Kits												
PSI	•	•	•		•	•	81					
Jal-TARA	•	•	•	•	•		80					
СРСВ	•	•	0	•	•		73					
Labsol	•			•	•	•	73					

Key: • Excellent

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Methodology at a Glance

The water test kit evaluation included three key components...



1. Product Evaluation

Lab testing in Ahmedabad, India

Survey of 234 lowincome users Ahmedabad, India

Single Parameter Test Kits

Multi Parameter Test Kits

Observation of users performing test in the field



2. Outreach & Partnership

Collaborated with local university students and NGOs

Capacity building in rural northern Gujarat State

Provision of water quality test results to all study participants



3. Methodology Development

Proposed new standardized framework for CITE evaluations

Proposed six new primary criteria, adaptable to all CITE evaluations

Developed 17 indicators to calculate scores for six criteria based on literature and expert interviews

Compiled a list of 56 kits from 25 different manufacturers

Interviewed NGOs working on water test kits

Developed procedures for conducting scoping study

Developed Decision Support System

Created product database template

And a new streamlined approach to product evaluation:

Technical Performance:

How well does the product perform its function in the lab and in real world settings?

Affordability:

Is the full cost within the ability and willingness to pay for low-income users?

Availability:

Is the product available in local markets? Is the supply chain dependable?

Demand Generation:

How high is the demand, and can the supply chain actors increase demand?

Ease of Use:

How easy or difficult is the product to use by an untrained user in a non-lab setting?

Health & Environment:

Does the product have a negative impact on the environment or the health of its users?



