

# SCALERX INDIA LLP

Scalerx UV – Advanced Ultraviolet Disinfection Systems  
Engineering Purity. Empowering Tomorrow.  
Infusion. Oxidation. Treatment. One Scalerx India Solution.



## The Scalerx UV Advantage

Scalerx UV Represents The Next Generation Of Ultraviolet Disinfection Technology Engineered For Advanced Water Purification, Reuse, Safety, And Biosecurity Across All Industries:

STP ■ ETP ■ RO ■ Process Water ■ Aquaculture ■ Food & Beverage ■ Pharma ■ Municipal Systems

## What Problems Scalerx UV Solves

- ❧ Failure To Meet CPCB Discharge Norms
- ❧ High Bacterial Contamination In RO Permeate & Process Water
- ❧ Frequent Vibrio Outbreaks And Mortality In Aquaculture
- ❧ Biofouling In Water Lines And RO Membranes
- ❧ Heavy Chemical Consumption For Disinfection
- ❧ Existing Uv Systems Failing Under Low UVT Or Fouling Conditions

## Our Engineering Pillars

- ❧ Precision Engineering:  
Optimized UV Chambers, High-output Lamps, Advanced Fluid Dynamics
- ❧ Consistent Performance:  
Auto-wiper Cleaning, UV Intensity Monitoring, Lamp-failure Protection
- ❧ Verified Results:  
Proven >99.99% Pathogen Removal Under Real Site Conditions  
Scalerx UV Ensures Safe, Compliant, Reusable Water While Significantly Reducing Operating Cost And Chemical Dependency.

## UV-RO Series

**Flow Range:** 500 LPH to 20 m<sup>3</sup>/hr

**Auto-Wiper:** Optional

**Application:** RO permeate polishing, drinking/process water

**Key Highlights:**

- Compact, high-efficiency chamber
- 30–40 mJ/cm<sup>2</sup> UV dose
- Compatible with 90–95% UVT
- Ideal for food, pharma, beverages, electronics, and drinking water



## UV-STP Series

**Flow Range:** 1 m<sup>3</sup>/hr to 500 m<sup>3</sup>/hr

**Auto-Wiper:** Standard

**Application:** Tertiary treated sewage disinfection

**Key Highlights:**

- Modular high-flow design
- 40–60 mJ/cm<sup>2</sup> disinfection range
- Achieves >4-log coliform reduction
- Ensures CPCB-compliant reuse water



## UV-ETP Series

**Flow Range:** 1 m<sup>3</sup>/hr to 300 m<sup>3</sup>/hr

**Auto-Wiper:** Standard

**Application:** Industrial effluent polishing & ZLD

**Key Highlights:**

- Designed for low UVT: 40–55%
- High dose: 60–80 mJ/cm<sup>2</sup>
- Supports AOP systems (color, COD reduction)



## UV-Aqua Series (Aquaculture / RAS)

**Flow Range:** 500 LPH to 150 m<sup>3</sup>/hr

**Auto-Wiper:** Optional for RAS, recommended for pond intake

**Key Highlights:**

- UVT compatibility: 50%–92%
- Dose: 25–35 mJ/cm<sup>2</sup> (bacteria), up to 60 mJ/cm<sup>2</sup> (virus)
- Controls **Vibrio**, improves survival rates
- Suitable for shrimp/fish hatcheries, nurseries & RAS



## UV-Box / Pharma UV Series

- Box-type robust design
- Suitable for batch and continuous sterilization
- Designed for high-intensity microbial control



## Open-Channel UV Series

- Modular banks for municipal outfalls
- Low head-loss design
- Capacity: 1–50 MLD and above



## Industries Served

- 🌿 Municipal STP / Wastewater
- 🌿 Industrial ETP & ZLD
- 🌿 RO / Process Water Systems
- 🌿 Food & Beverage
- 🌿 Pharma & Healthcare
- 🌿 Aquaculture / RAS / Hatcheries
- 🌿 Hospitality & Institutions

## Key Applications

- 🌿 Bacterial & Viral Disinfection
- 🌿 Tertiary Treatment For Reuse
- 🌿 RO Permeate Polishing
- 🌿 Industrial Effluent Polishing
- 🌿 Aquaculture Biosecurity
- 🌿 Open-channel Disinfection
- 🌿 Product/surface Sterilization (Pharma UV Box)

## Proven Field Performance

- 🌿 >99.99% Microbial Inactivation
- 🌿 >4-log Coliform Reduction In STP
- 🌿 >3-log Pathogen Reduction In ETP
- 🌿 >3-log Bacterial Reduction In RO Permeate
- 🌿 >99.9% Vibrio Reduction In Aquaculture Systems

## Installations Across India

Scalrex UV Systems Are Deployed Across:

Maharashtra ▪ Gujarat ▪ Karnataka ▪ Telangana  
▪ Tamil Nadu ▪ Goa ▪ Madhya Pradesh ▪ Northern India

Serving: Industries

▪ STPs ▪ Aquaculture farms ▪ Institutes ▪ Commercial complexes

*(Client names not disclosed as per corporate policy.)*

## Core Technical Features

- 🌿 High-Output UV-C Lamps (254 nm)
- 🌿 Auto-Wiper Cleaning System
- 🌿 UV Intensity Monitoring
- 🌿 SS316 / Duplex Steel Chamber
- 🌿 Hydraulically Optimized Reactor Geometry
- 🌿 Chemical-Free Disinfection
- 🌿 Lamp Failure & Dose Assurance Alarms
- 🌿 Energy-Efficient Electronic Ballasts
- 🌿 Food-Grade Quartz Sleeves
- 🌿 Built-in Safety Interlocks
- 🌿 Full PLC/SCADA Support (Modbus/RS485)
- 🌿 Easy-access service ports

# TECHNICAL EXCELLENCE

## Performance Engineered for All Water Types

Application	Typical UVT	Recommended Dose	Expected Log Reduction
RO / Drinking Water	90–95%	30–40 mJ/cm <sup>2</sup>	3-log bacteria
STP Tertiary Water	50–70%	40–60 mJ/cm <sup>2</sup>	4-log coliform
Industrial ETP	40–55%	60–80 mJ/cm <sup>2</sup>	3-log pathogens
Aquaculture / RAS	50–92%	25–35 mJ/cm <sup>2</sup> (bacteria), 60 mJ/cm <sup>2</sup> (virus)	99.9% Vibrio

## Why Scalerx UV Leads the Market

- Stable Uv Dose Even Under Fluctuating UVT
- Longest Lamp Life & Low O&M Cost
- Advanced Auto-wiper Ensures Consistent Output
- Designed Specifically For Indian Water Conditions
- Trusted By Industries, Municipalities, And Hatcheries
- Backed By End-to-end Technical Support



Packaging Drinking Water



Beverages



Pharmaceutical Processes Water



Waste Water Treatment Plant (etp /stp)



Swimming Pool



Aquaculture



Agriculture



Food Processing

## Contact Us

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