Rain Power
FILTRATION

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WATER TREATMENT PLANT

Complete Solutions for Filtration, Purification and Process Water Management



SYSTEM RANGE

Pre-Treatment Systems	Reverse Osmosis (RO)	Ultrafiltration (UF)	Ion Exchange Systems	DM, Exchange Systems
EDI Systems	Desalination Plants	Drinking Water Plants	Rain Water Harvesting	

FEATURES

- Turnkey EPC Solutions
- Automation Ready
- Energy Efficient Design
- Custom Engineered Systems
- Industrial Grade Performance

APPLICATION

- Industrial Process
- Drinking Water
- Pharma & Food
- Utilities
- Infrastructure

From Raw Water to Pure Performance

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Rain Power Filtration

COMPANY PROFILE

Rain Power Filtration is an engineering-driven organization delivering ıtarm complete water treatment and process filtration systems.

The company designs designs and manufactures industrial equipment with a focus on performance, durability, and real operating conditions.

Core capability includes in-house fabrio-cation, system integration, and turnkey execution for industrial, commercial, and infrastructure applications.

Vision

To establish a strong engineering presence by delivering reliable and efficient water treatment systems aligned with industrial requirements.

Mission

- Design systems based on real process requirements
- Ensure consistent quality in fabrication and execution
- Deliver long-term reliable performance
- Support clients with practical engineering solutions



CORE VALUES

- Engineering Discipline
- Quality Commitment
- Operational Reliability
- Customer Focus
- Continuous Improvement





- In-house manufacturing capability
- Fabrication in SS, MS, and FRP
- Skid-mounted system integration
- Application-based system design
- Focus on long service life

Engineered Systems. Reliable Performance.

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PRE-TREATMENT & FILTRATION SYSTEMS

Purpose: Remove turbidity, iron, chlorine, heavy metals, and contaminants before RO / UF systems



System	Function	Media
MGF	Suspended solids removal	Sand / Gravel
ACF	Chlorine & odor removal	Activated Carbon
IRP	Iron removal	Manganese Dioxide
Arsenic Filter	Arsenic removal	Specialized Media
Fluoride Filter	Fluoride reduction	Activated Alumina
Cartridge Filter	Fine filtration	PP Cartridges

Raw Water → MGF → ACF → IRP → Special Filters → Cartridge → RO Feed

Features

- Vertical / Horizontal design
- SS / MS / FRP construction
- Auto / Manual valve options
- Custom pressure design
- Modular system integration

Technical Snapshot

Size — 200 mm to 3000 mm
Pressure — Up to 10 bar
Media Type — Multi-layer filtration
Operation — Manual / Automatic

Applications

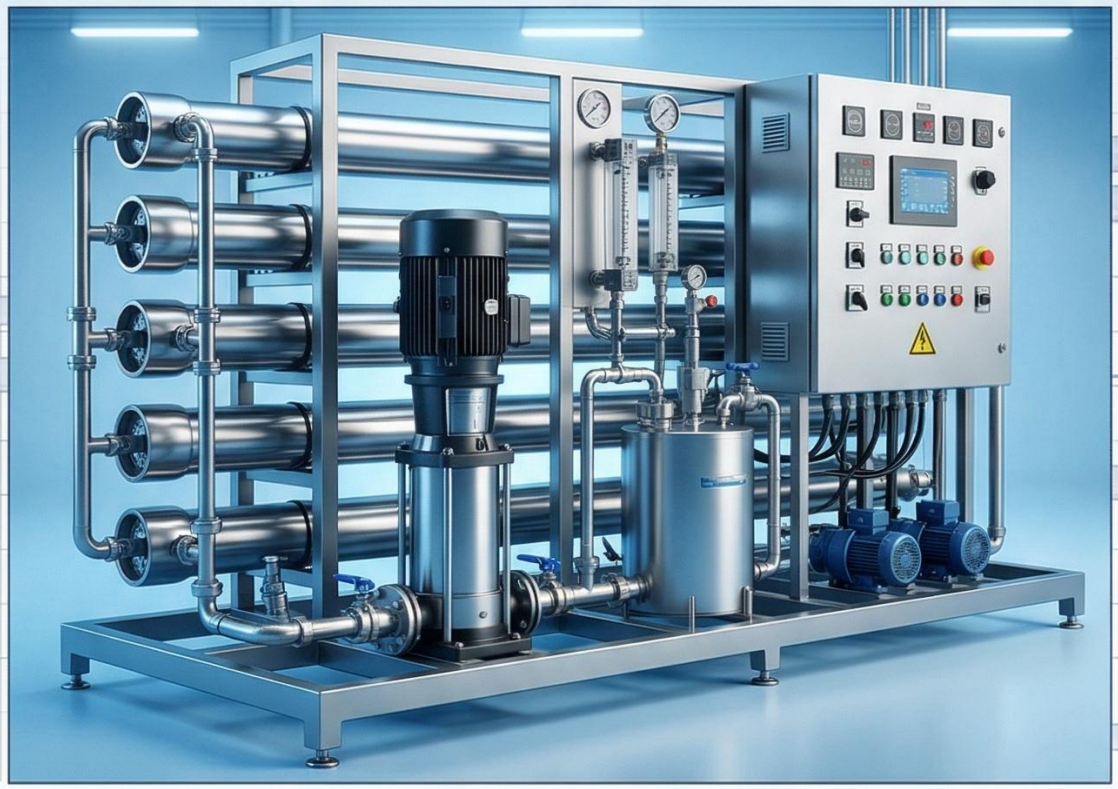
- RO Pre-treatment
- Drinking water systems
- Industrial water treatment
- Groundwater purification

Strong Pre-Treatment. Reliable Membrane Performance.

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REVERSE OSMOSIS SYSTEM

High Efficiency Membrane-Based Water Purification System



Removes dissolved salts (TDS)

Removes heavy metals

Removes bacteria & impurities

Parameter	Details
Capacity	100 LPH – 1000 CMD
Recovery	50 – 75%
Membrane	Thin Film Composite
Pressure	Up to 60 bar
TDS Output	< 50 ppm

Pre-Treatment → High Pressure Pump → RO Membrane → Product + Reject

Key Components
- High Pressure Pump
- Membrane Housing (SS Pressure Tube)
- Dosing System
- Control Panel (PLC Optional)

Key Features
- High TDS removal efficiency
- Compact skid-mounted design
- Energy optimized system
- Automation ready

Applications
- Drinking Water
- Industrial Process
- Boiler Feed

Key Features • High flow removal • Energy optimized system • Automation ready

Heart of Modern Water Treatment

Rain Power Filtration

ULTRAFILTRATION SYSTEM



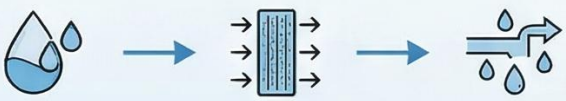
FUNCTION

Removes bacteria

Removes viruses

Removes fine suspended solids

(UF membranes typically filter down to ~0.01 micron level)



- ✓ Fully automatic backwash
- ✓ Low chemical consumption
- ✓ Compact skid-mounted system
- ✓ Consistent output quality

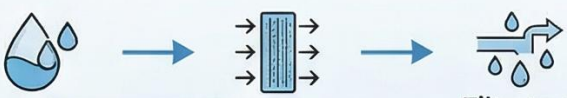
(UF systems are widely used as RO pre-treatment to reduce fouling)

System design

Vertical membrane module design

Skid-mounted configuration

Parameter	Details
Pore Size	0.01 micron
Output	SDI < 3
Operation	Outside-In / Inside-Out



Raw Water → UF Membrane → Filtrate + Backwash

Applications

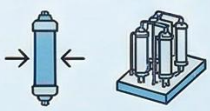
RO Pre-treatment

Surface water filtration

Industrial water treatment

Drinking water systems

System Design



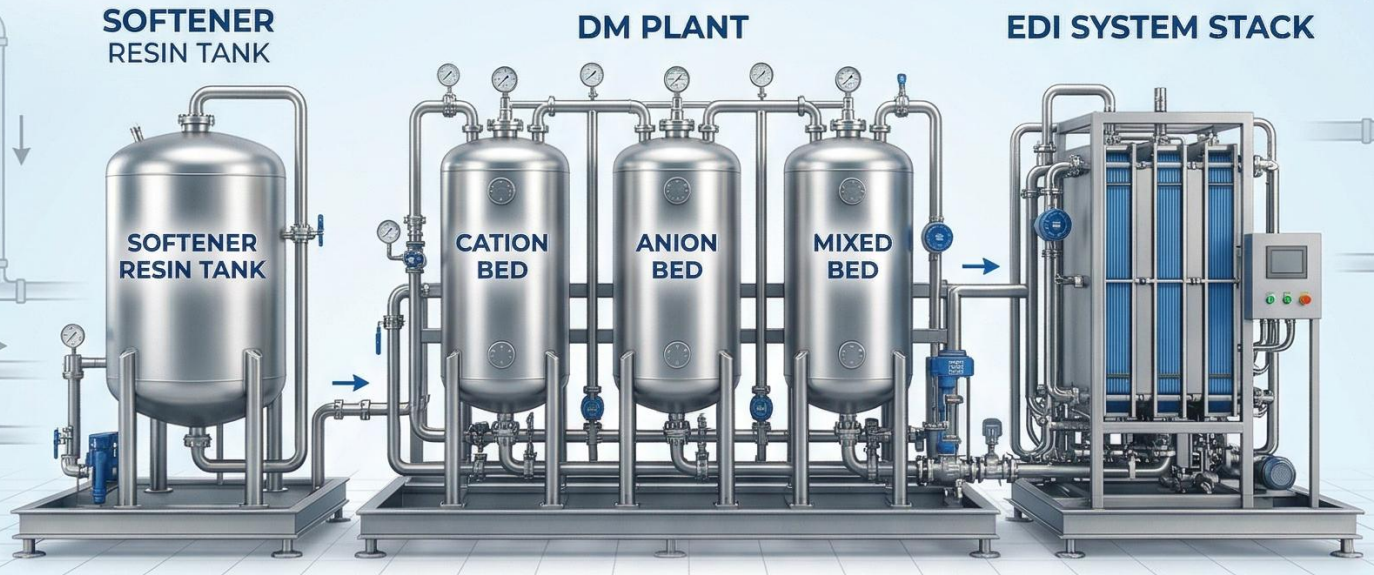
Modular expansion possible

(Vertical modular UF systems improve scalability and space efficiency)

Best Protection Before RO

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ION EXCHANGE & ULTRA PURE WATER SYSTEMS



Softener → Removes hardness using resin

DM Plant → Removes dissolved ions

EDI System → Produces ultra-pure water without chemicals

Raw Water → Softener → DM → EDI → Ultra Pure Water

System	Output Quality	Use Case
Softener	< 5 ppm hardness	Boilers
DM Plant	< 0.2 µS/cm	Industrial
EDI System	< 0.1 µS/cm	Pharma / High Purity

KEY FEATURES

- Softener — Simple and reliable operation
- DM — Complete mineral removal
- EDI — Continuous operation, no chemical regeneration

TECHNICAL SNAPSHOT

- Resin Based System (Softener & DM)
- Electrical Polishing (EDI)
- Automation Compatible
- Skid Mounted Design

Boiler Feed Water | Pharmaceutical Water | Power Plants | Electronics Industry | High Purity Applications

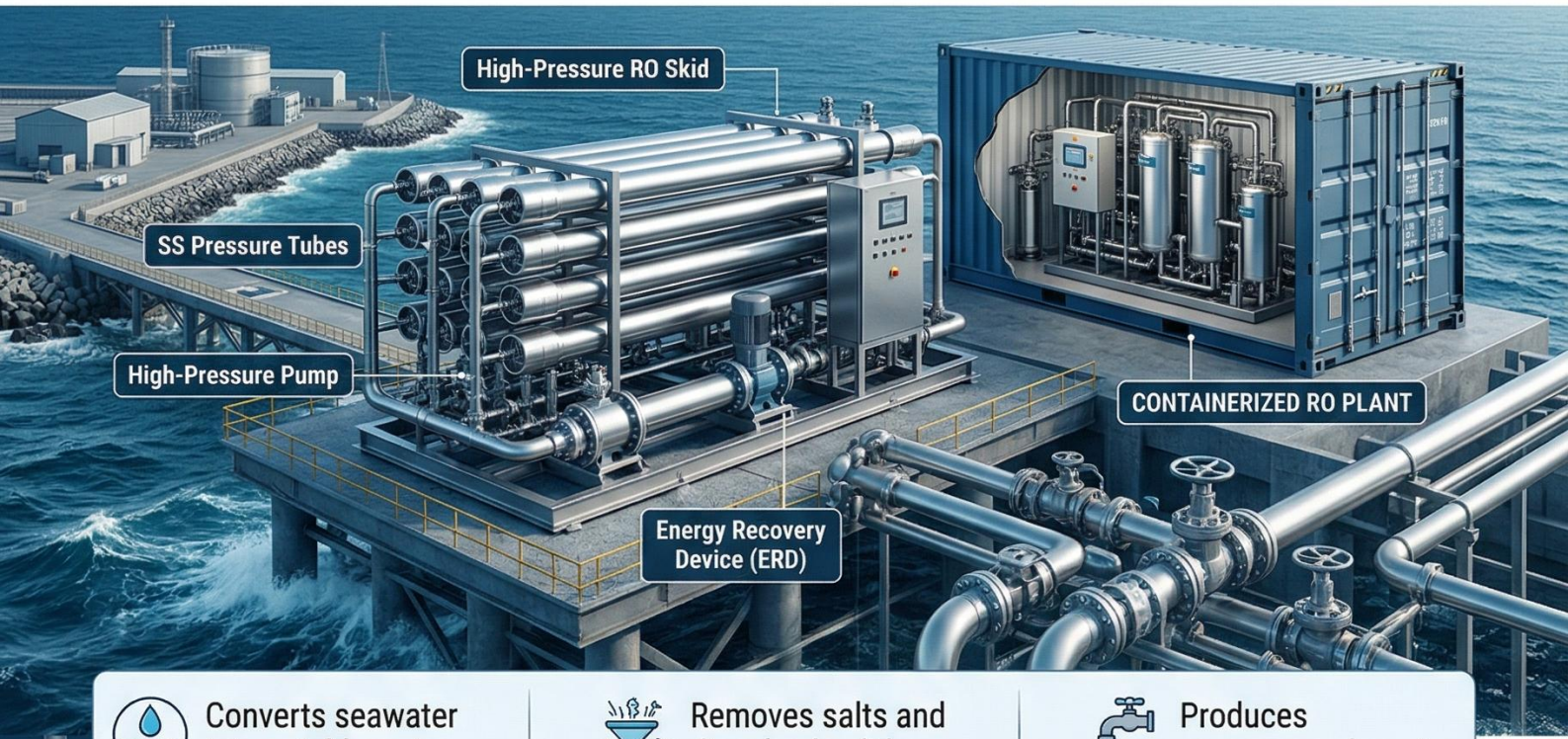
System Advantage : Combination of conventional resin systems and modern modern EDI ensures full-spectrum water purification

From Hard Water to Ultra Pure Water

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DESALINATION SYSTEM

SEA WATER REVERSE OSMOSIS SYSTEM



Converts seawater into potable water

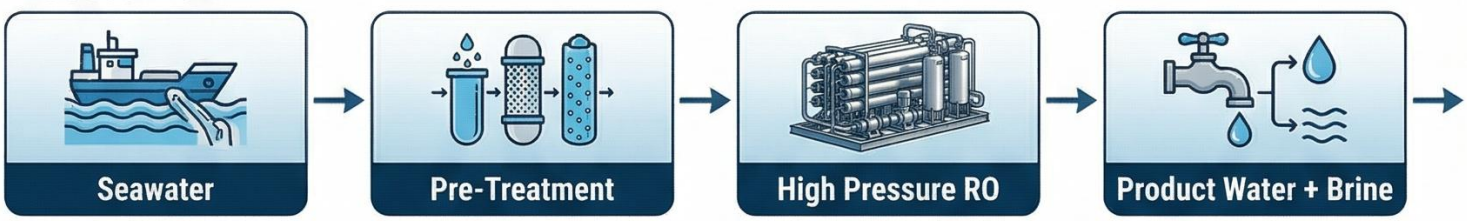
Removes salts and dissolved solids

Produces process-ready water

Key Specifications

Parameter	Details
TDS Handling	Up to 45,000 ppm
Operation	High-pressure system
Recovery System	Energy recovery device
Configuration	Skid / Containerized

Process Flow



KEY FEATURES

- Designed for high salinity water
- Energy optimized with ERD
- Robust skid or containerized design
- Corrosion resistant construction

APPLICATIONS

- Marine vessels
- Coastal industries
- Offshore platforms
- Island water supply

System Design Options

Skid Mounted System



Containerized Plug & Play Plant

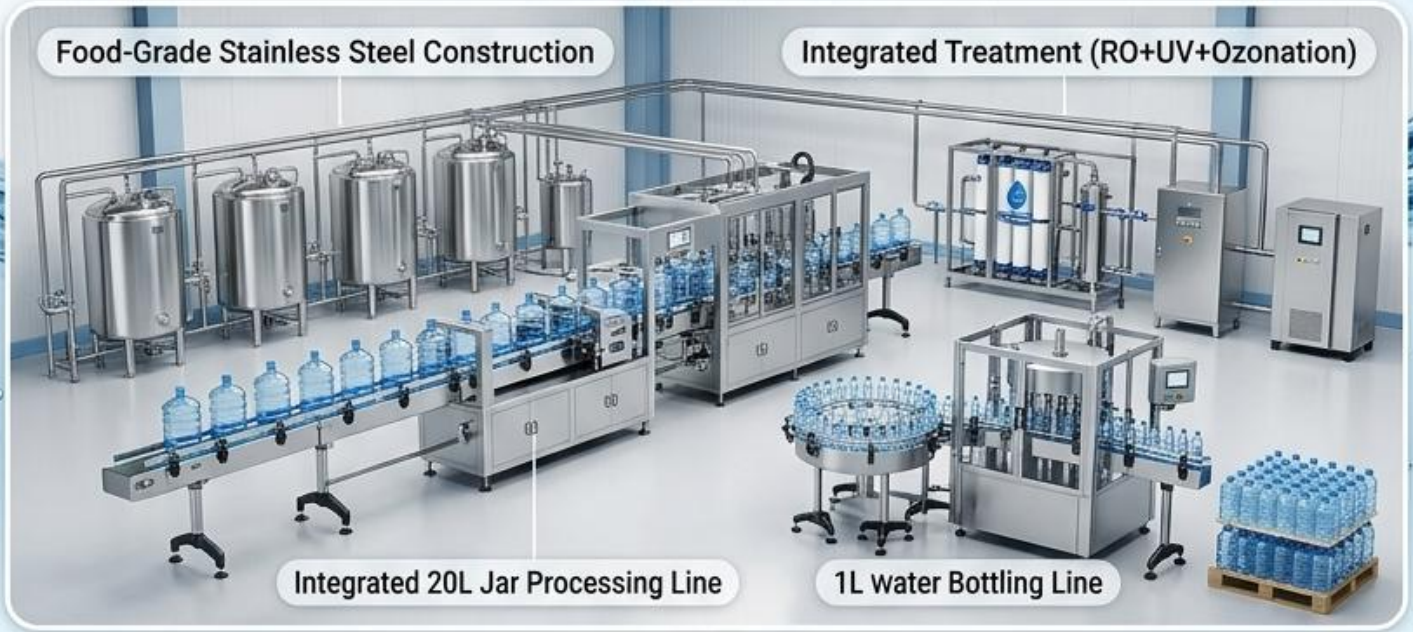


Heavy-Duty Engineering. Built for Extreme Conditions.

Rain Power FILTRATION

PACKAGED DRINKING WATER SYSTEMS

RO Based Bottling & Jar Filling Solutions



SYSTEM TYPES

- Packaged RO Plants
- 20L Jar Filling Systems
- Mineral Water Plants

PROCESS FLOW

PROCESS FLOW

Raw Water → RO → UV → Ozonation → Filling → Finished Product

KEY FEATURES

- Plug & Play system
- Stainless steel construction
- Fully automatic operation
- Hygienic design
- Compact layout

TECHNICAL SNAPSHOT

- Capacity – 250 LPH to 10,000 LPH
- Material – SS304 / Food Grade
- Automation – Semi / Fully Automatic

APPLICATIONS

- Packaged drinking water
- Commercial supply
- Retail water business
- Industrial drinking supply

BUSINESS ADVANTAGE

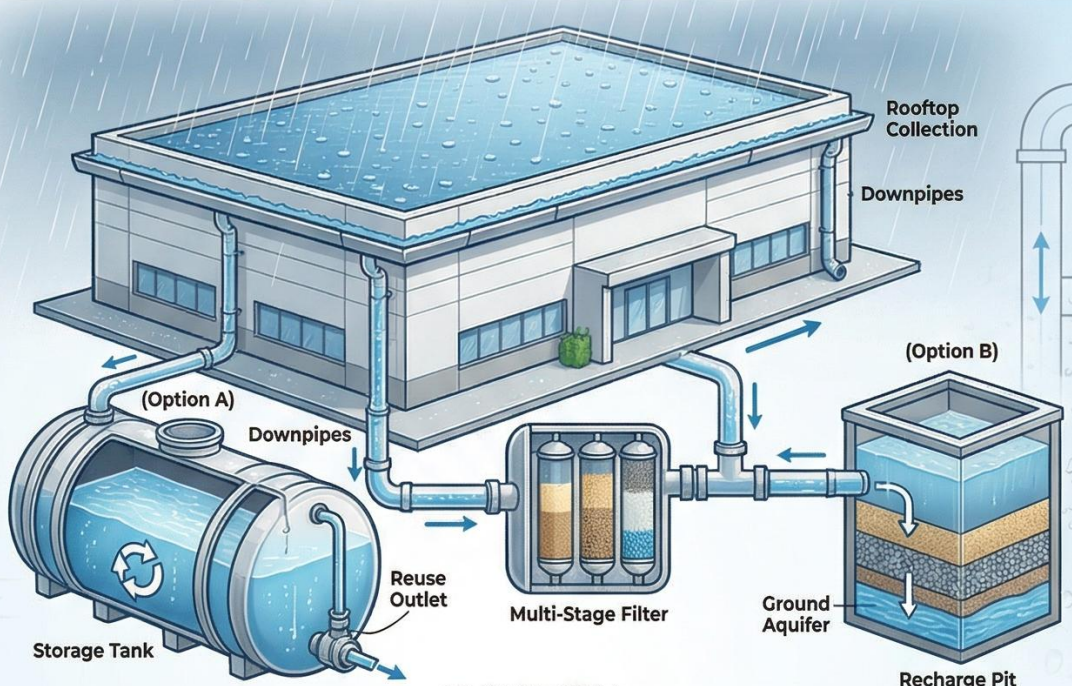
- Fast installation
- Low operating complexity
- Scalable production
- High market demand

Pure Water. Ready for Market.

Rain Power Filtration

RAIN WATER HARVESTING SYSTEM

Sustainable Water Collection & Reuse Solution



FUNCTION:

- Collection of rainwater
- Filtration of contaminants
- Storage and reuse
- Groundwater recharge

SYSTEM COMPONENTS:

Component	Function
Rooftop rainwater collection	Captures rooftop rainwater
Filtration Unit	Removes dirt and particles
Storage Tank	Stores filtered water
Recharge System	Recharges groundwater

Rainfall → Collection → Filtration → Storage / Recharge

[KEY FEATURES]

- Simple and effective design
- Low operating cost
- Eco-friendly solution
- Scalable for any building

[APPLICATIONS]

- Residential buildings
- Industrial facilities
- Commercial complexes
- Institutional projects

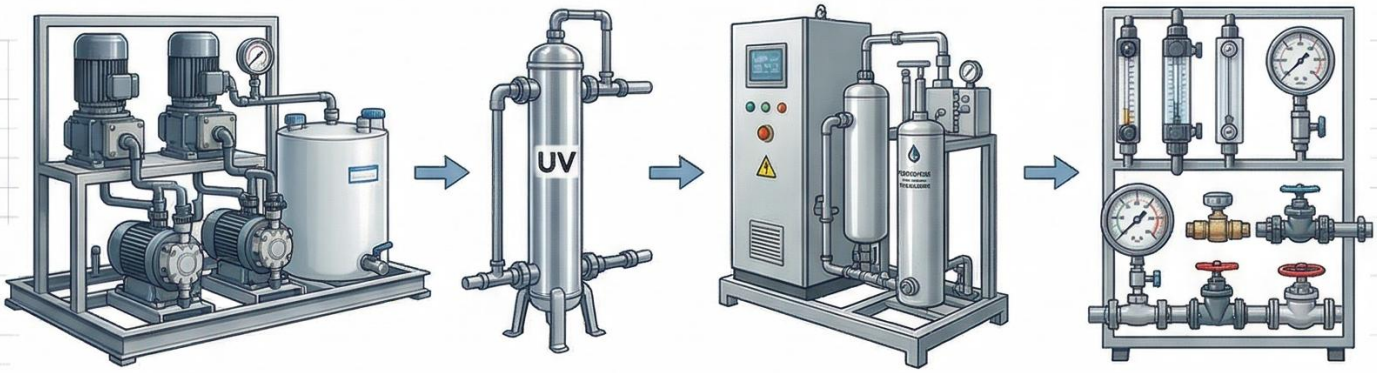
[SYSTEM BENEFITS] Reduces water dependency, Improves groundwater levels, Supports sustainable infrastructure

Save Water Today. Secure Tomorrow.

Rain Power Filtration

COMPONENTS & INSTRUMENTATION SYSTEMS

Complete Range of Process Components & Control Systems



[Dosing Systems] [Disinfection Systems] [Instrumentation] [Control Systems] [Valves & Flow Devices]

COMPONENT BREAKDOWN

System / Component	Function
Dosing Pump System	Chemical dosing control
Chlorine Plant	Disinfection using chlorine
Ozonator	Advanced oxidation & disinfection
UV System	Microbial sterilization
Flow Meter	Flow measurement
Pressure Gauge	Pressure monitoring
Valves	Flow control
Sensors	Process monitoring

KEY SYSTEMS

DOSING SYSTEM
- Accurate chemical injection, pH correction, antiscalant dosing

CHLORINE SYSTEM
- Effective microbial control
- Used in drinking water systems

OZONATOR
- Strong oxidation
- Removes odor, color, organics

UV SYSTEM
- Final disinfection stage
- No chemical usage

FEATURES
- Accurate control
- Automation compatible
- Low maintenance
- Compact skid design
- Reliable performance

APPLICATIONS
- Water treatment plants
- RO & UF systems
- Drinking water plants
- Industrial process systems

SYSTEM INTEGRATION

Filtration → Dosing → Membrane → Disinfection → Monitoring

Every Component Matters. Every Detail Counts.

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CONTROL PANEL & AUTOMATION SYSTEMS

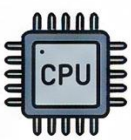
In-House Designed Electrical & Automation Solutions



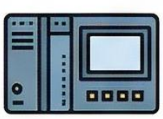
COMPLETE IN-HOUSE PANEL MANUFACTURING FOR ALL TYPES OF WATER TREATMENT SYSTEMS



Relay Based Panels



Microprocessor Based Panels



PLC + HMI Automation Panels



MCC Panels



Custom Control Panels

SYSTEM FEATURES

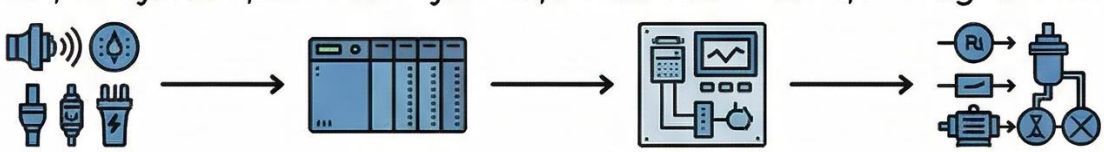
- Fully automatic plant operation
- Real-time monitoring
- User-friendly interface (HMI)
- Remote operation capability
- Alarm and protection system

TECHNICAL CAPABILITY

- Programmable Logic Controllers (PLC)
- Human Machine Interface (HMI)
- Sensor integration
- Motor control systems
- Panel wiring & assembly

APPLICATIONS

RO Plants, UF Systems, DM & EDI Systems, Desalination Plants, Packaged Water Plants



IN-HOUSE CONTROL ENSURES BETTER SYSTEM RELIABILITY, FASTER TROUBLESHOOTING, AND COMPLETE PROCESS CONTROL

SMART CONTROL. RELIABLE OPERATION.

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SERVICE • SUPPORT • EXECUTION



SERVICE CAPABILITY

- **Installation Support**
- **Commissioning Assistance**
- **Troubleshooting**
- **System Optimization**
- **AMC Services**

EXECUTION STRENGTH

In-house design and fabrication
Complete system integration
Site-based execution capability
Consistent project delivery

SPARE SUPPORT

Availability of critical spares

- Membranes
- Filter media
- Cartridges
- Valves and instruments



CLIENT CONFIDENCE

Reliable engineering
Consistent performance
Long-term operational support

PROJECT APPROACH

Understanding → Design → Manufacturing → Installation → Support

CONTACT SECTION

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BOTTOM STATEMENT

From Concept to Commissioning — We Deliver Complete Solutions