



ULTRA-PURE WATER POLISHING SYSTEM, GUJRAT

A prestigious scientific research institute in Gujarat specializing in high precision plasma and pharmaceutical research, requiring consistent and ultra-pure water quality to uphold experimental integrity and regulatory compliance.

WOG Technologies was entrusted with the design, engineering and commissioning of a 240 m³/day Ultra-Pure Water Polishing System. The system was developed to meet <0.2 MS/cm conductivity & ≥5x10¹² MQ·cm resistivity, in full compliance with pharmacopeial standards & research-grade water norms.

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Challenges

- Achieving pharmacopeial & ASTM Type I water quality for pharma/R&D.
- Integrating with existing lab infrastructure & research loops.
- Maintaining continuous uptime, zero contamination & DO ≤ 0.1 ppm.


Solutions

- Multi-grade & activated carbon filters with auto-backwash
- SAC & SBA exchangers with CO₂ degasser
- Mixed bed (MB) & EDI units
- DO removal systems with air scourers
- Real-time monitoring & auto-regeneration

Results

- Achieved outlet water quality of < 0.2 μS/cm conductivity and ≥ 18 MQ·cm resistivity.
- Fully compliant with scientific and pharmaceutical water requirements.
- Supported uninterrupted, high-precision R&D operations.

For detailed techno-commercial proposal or site visit coordination,

 **Drop us an e-mail at:**
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Impact

- Provided stable ultra-pure water for critical pharma and plasma experiments
- Achieved 100% compliance with pharmacopeial standards
- Enabled scalable, resilient R&D operations
- Minimized risks via automation, smart regeneration & DO control