

# Plant Evaluation

## Assessment of Existing Plant Condition & Upgrade Readiness

### 1. Purpose of Plant Evaluation

- Assess overall health and performance of the existing plant
- Identify gaps in water quality, efficiency, and compliance
- Evaluate feasibility of upgrading to Krispy Plus / K2 technology
- Support decisions for expansion, modernization, or exit

### 2. Machinery & Equipment Condition

- Condition of RO plant, pumps, pressure vessels, and panels
- Age and operating hours of critical components
- Performance of membranes, filters, and media
- Observation of leakages, corrosion, vibration, or abnormal noise

### 3. Process Performance

- Current output versus rated capacity
- Recovery percentage and reject ratio
- Consistency of water quality (TDS, pH, taste, odor)
- Operational stability and downtime frequency

### 4. Pre-Treatment & Post-Treatment Systems

- Adequacy of existing pre-treatment systems
- Condition and replacement cycle of filter media
- Scope for K2 / Krispy Plus post-treatment integration
- Compatibility with alkaline, hydrogen, and mineralization systems

### 5. Electrical & Utility Assessment

- Electrical panel condition and load adequacy
- Earthing, safety protections, and wiring quality
- Backup power availability
- Water source reliability and inlet pressure
- Drainage and wastewater handling compliance

## 6. Compliance & Documentation Review

- Availability of plant layout and P&ID;
- Maintenance records and service history
- Raw and treated water test reports
- Regulatory and certification readiness

## 7. Upgrade Readiness Classification

- Ready for immediate upgrade
- Upgradeable with medium intervention
- Major overhaul required

## 8. Exit & Valuation Support

- Asset condition and residual life assessment
- Upgrade potential versus replacement recommendation
- Technical inputs for valuation discussions
- Advisory support for ownership transition or franchise integration

**Outcome:** A structured evaluation report outlining current plant condition, upgrade feasibility, recommended action plan, and investment implications.