

Machinery Checklist

Technical Checklist Required Before Plant Installation

1. Site Readiness Checklist

- ■ Adequate floor space available as per plant layout
- ■ Levelled concrete platform or foundation prepared
- ■ Proper drainage provision for reject and backwash water
- ■ Sufficient ventilation in plant room
- ■ Adequate lighting for operation and maintenance
- ■ Access clearance for installation and servicing

2. Raw Water & Source Verification

- ■ Raw water source identified (borewell / municipal / tanker)
- ■ Latest raw water analysis report available
- ■ Chlorine level confirmed (PPM)
- ■ TDS, hardness, iron, turbidity checked
- ■ Inlet pressure within acceptable range
- ■ Water source availability confirmed

3. Electrical & Power Requirements

- ■ Power supply voltage verified
- ■ Load capacity sufficient for pumps and panels
- ■ Dedicated electrical panel location identified
- ■ Proper earthing available
- ■ Surge protection or stabilizer provision checked
- ■ Backup power arrangement confirmed

4. RO Plant Machinery Checklist

- ■ RO capacity confirmed
- ■ RO membranes specified and compatible
- ■ Pressure vessels selected correctly
- ■ High-pressure pump rating verified
- ■ Low-pressure feed pump availability confirmed
- ■ Control panel finalized

5. Pre-Treatment Systems Checklist

- ■ Pre-Carbon Filter installed
- ■ De-chlorinator system provided if required
- ■ Media quantity verified
- ■ Backwash arrangement confirmed
- ■ Valves, piping, and fittings available

6. Post-Treatment / Alkaline System Checklist

- ■ K2 / Krispy Plus filter selected correctly
- ■ Media quantity verified
- ■ Installation point confirmed (post-RO only)
- ■ Manual pH controller provided
- ■ Bypass and sampling valves included

7. Storage & Distribution

- ■ Raw water storage tank capacity adequate
- ■ RO water storage tank installed
- ■ Treated water storage provision confirmed
- ■ Food-grade material used for tanks
- ■ Transfer pumps and pipelines ready

8. Instrumentation & Monitoring

- ■ Pressure gauges installed
- ■ Flow meters installed where applicable
- ■ pH meter or testing kit available
- ■ TDS meter available
- ■ Sampling points provided

9. Consumables & Spares

- ■ Filter cartridges available
- ■ Activated carbon and media stocked
- ■ Initial chemicals available if applicable
- ■ O-rings, fittings, connectors available
- ■ Tool kit for installation ready

10. Compliance & Documentation

- ■ Approved plant layout drawing
- ■ P&ID; or flow diagram available
- ■ Machinery specification sheet approved

- ■ Installation manual available
- ■ Safety instructions shared

11. Pre-Installation Final Checks

- ■ All machinery delivered as per packing list
- ■ No transit damage observed
- ■ Media bags sealed and intact
- ■ Serial numbers recorded
- ■ Installation date scheduled
- ■ Trained technician availability confirmed