SECOND DESK

INTERNATIONAL ADVISORY

Water & utility packages

Plant utility systems delivered with EPC interface discipline

ENERGY & INFRASTRUCTURE



AI-generated illustration | not an actual project reference

Product scope and commercial role

TECHNICAL SCOPE

- Demineralised and process water
- Transfer and storage
- Cooling and utility skids

SECOND DESK ROLE

Technical-commercial qualification, market development and manufacturer or partner coordination.



Source: Second Desk website | sector image, not project evidence

Design basis and operating envelope

INPUTS REQUIRED BEFORE A COMPARABLE QUOTATION

- Plant utility balance
- Water chemistry
- Guaranteed duty
- Owner specification
- Site connection data

The owner and qualified manufacturer confirm operating conditions and applicable design basis before engineering release.

Engineering and component selection

DESIGN REVIEW POINTS

- P&ID and utility boundaries
- Materials
- Duty/standby philosophy
- Redundancy and controls

Selection trade-off

Owner data sheets and duty conditions govern comparison. Confirm quality target at the nominated battery limit.

Project drawings, tolerances and design details remain subject to the responsible supplier or engineer.

Representative technical section



AI-generated technical concept | not to scale or for fabrication

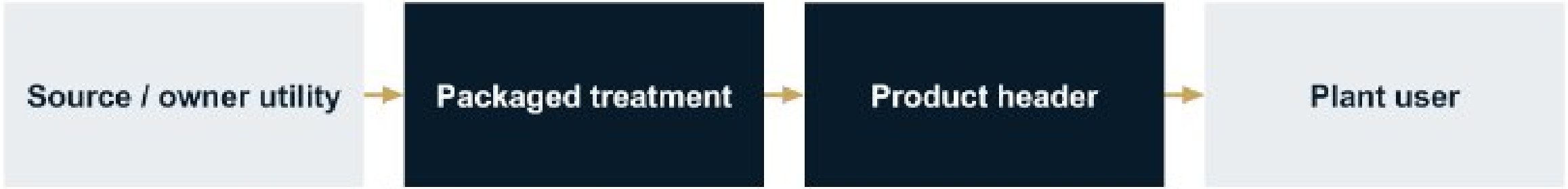
DETAILS TO CONFIRM WITH QUALIFIED SUPPLIER

- P&ID and utility boundaries
- Materials
- Duty/standby philosophy
- Redundancy and controls

Confirm the actual construction and dimensions from controlled supplier drawings or approved samples.

Representative functional arrangement

Conceptual sequence for technical discussion. Actual layout and interfaces depend on the approved specification.



Controls, power and utility services are coordinated as separate interfaces.

Input boundary

Plant utility balance / Water chemistry

Operating and output boundary

Capacity and agreed quality / Alarms

Fabrication and assembly sequence



AI-generated sector manufacturing scene; illustrative only

TYPICAL CONTROLLED WORKFLOW

01 Frames, vessels and pipe spools

02 Rotating equipment assembly

03 Electrical and I/O integration

Inspection and quality control

TYPICAL QUALITY CONTROL POINTS

01 ITP hold points

02 Material control

03 Pressure and leak tests

04 Functional FAT



AI-generated sector inspection scene; illustrative only

Inspection methods, sampling, hold points and sign-off depend on the order and approved quality plan.

Factory acceptance and site acceptance

FAT / manufacturing release

- ITP hold points
- Material control
- Pressure and leak tests
- Functional FAT

SAT / performance verification

- Capacity and agreed quality
- Alarms
- Performance evidence and document turnover

Agree test conditions, tolerances, witness authority and punch-list closeout before testing. SAT is distinct from factory release.

Site integration and commissioning readiness



AI-generated sector application scene; illustrative only

SITE PREREQUISITES

01 Verify foundations and tie-ins

02 Check site utility supply

03 Interface with EPC commission team

Packing, logistics and delivery

PRODUCT-SPECIFIC PACKING CHECKS

01 Preservation per schedule

02 Package IDs and shipping sequence

03 Lifting plan

Define the Incoterms® rule, named place, export documents, insurance responsibilities and site receipt process in the commercial agreement.



AI-generated sector logistics scene; illustrative only

Technical and commercial risk review

Review P&ID interfaces and duty/standby sequence. Define vendor document register and EPC review gates.

Design compliance

Compare the same data sheets, duty and explicitly agreed exclusions.

Technical evidence

Request relevant engineering documents, inspection plan and test records.

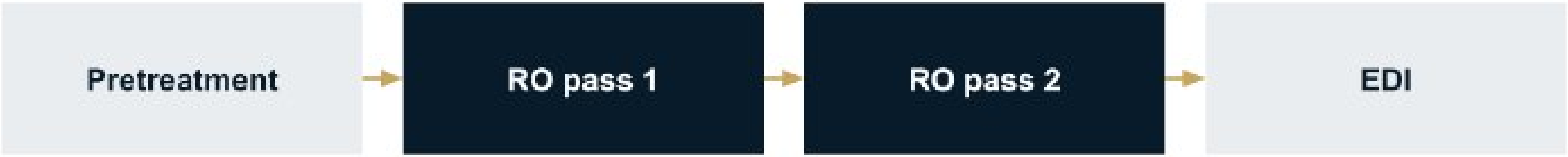
Execution risk

Check site access, spares, service scope and the manufacturer's support plan.

Published scope: high-purity water

5 m^3/h

Published capacity for a high-purity power-generation package.



The website describes PLC automation, SCADA-ready infrastructure and on-site commissioning.

Self-published, anonymised scope. Customer and project identity, role details and independent verification are not disclosed.

Responsibilities across the supply chain

OWNER / EPC	SECOND DESK	MANUFACTURER / CONTRACTOR
Defines duty, project constraints, site interfaces and acceptance authority.	Clarifies the opportunity, identifies suitable suppliers and coordinates technical-commercial communication.	Owns engineering, production, testing, guarantees, site execution and contractual obligations as agreed.

Supplier names, manufacturing capability, certificates, references and country-specific approvals are verified for each enquiry; no standing partner or factory is implied.

RFQ and evidence package

01	**Technical definition**	Duty and design basis, data sheets, scope boundaries and tie-in information.
02	**Supplier evidence**	Capability, drawings, applicable compliance, inspection plan and relevant references.
03	**Commercial offer**	Scope and exclusions, lead time, payment, Incoterms® rule, optional services.
04	**Handover plan**	FAT/SAT where applicable, documentation, spares, training and after-sales.

SECOND DESK

INTERNATIONAL ADVISORY

Discuss your next requirement

Share the application, target market or project, technical specification and expected delivery scope.

seconddeskinternational.com

Contact form: seconddeskinternational.com/#contact | Denizli, Türkiye | Meetings by appointment

SOURCE AND EVIDENCE NOTES

Second Desk sector page • ASME B31.3: process piping (where applicable) • ICC Incoterms® guidance

Visuals: generated sector illustrations and Second Desk website imagery. Project provenance, supplier capabilities and certification remain unverified unless separately confirmed.