

M/s AL HABARI ENGINEERING Kind Attn: Mr. Rajanmurali Selvarasu Email : rajan@habariengineering.com Mobile: +974 7132 2100	QREF 04/08/2025-7 SUBJECT: PROPOSAL FOR Supply, Installation, Testing & Commissioning of Seawater Return Facility TEST CHAMBER - Simulation of Ambient Conditions <u>Location: Ras Laffan Industrial City</u>
DATE : 04/08/2025	Email: mes@mes.qa

Dear Sir,

With reference to the above subject and further to our discussion, please find below the scope of works:

1. Scope of Work

This proposal outlines the supply, and construction of an environmental test chamber for concrete testing under controlled temperature and humidity. The chamber shall replicate severe industrial and coastal conditions such as those found in Ras Laffan, including high temperatures, variable humidity as per the pre-defined simulation profile and the specifications mentioned in Ambient Condition Simulation Program & Specifications Report

DOC NO: 4606-RLCSF21-1-17-0003

2. Breakdown of Scope

1. Technical submittal & approval

2. Chamber Construction (20m X 2m x 10m height)

Supply & Installation of chamber Structure using PUR-insulated sandwich panels as specified.

Note: Any reinforced concrete base, platform, scaffolding, steel support frame by the main contractor.

3. Refrigeration System

High-capacity cooling system with refrigeration units DX, ducting system (consisting of Condensing Unit + AHU) Capable of maintaining +5 C deg till 70 C deg as specified.

4. Heating System

Duct heaters built in Duct System to achieve 70°C internal temperature with controlled ramp-up profile. Includes safety and protection systems.

5. Humidification System

Humidification system to maintain RH levels up to 95%, integrated with PID control systems for accuracy. Consisting of pump, piping, nozzles, water tanks.

5. Salt Spray System

Consisting of saltwater pump, piping, nozzles and controller

6. Control & Monitoring System

PLC or BMS control system, data logging, alarm management, and sensor integration. Capable of scheduled operation with preloaded setpoints.

3. Total Project Value

Total Price: 506,000 Q.R.

5. Project Duration

- Technical Submittals & approval: 2 weeks
- Shop drawings: 2 weeks
- Mobilization: 1 week
- Construction: 6 weeks
- Installation: 8 weeks
- Testing & Commissioning: 2 week

6. Terms & Conditions

- Prices exclude VAT or customs duties if applicable
- Payment schedule:
 - 60% Advance
 - 10% Upon Supply of Construction Material to site
 - 15% Upon Supply of Equipment to Site
 - 10% Upon Completion of installations
 - 5% Upon Testing & Commissioning
- Validity: 30 days from proposal date

7. Exclusions & Clarifications

Unless explicitly stated in this proposal, the following items are **excluded** from our scope:

1. **Electrical Power Supply:**
 - Main Incoming electrical power (main cable, breaker, panel) is to be provided by others up to the chamber control panel location as per design.
2. **Civil Works :**
 - Scaffolding & Platform & steel works to support the sandwich. Structural foundation beyond the reinforced slab directly supporting the chamber (if required by site).
 - External drainage or trenching.
 - Any crane or lifting equipment is excluded from scope.
 - Any welding equipment or approvals or heavy tools.
3. **Building Permits & Approvals:**
 - All necessary site approvals, building permits, and environmental clearances. Safety clearance are the responsibility of the client.
4. **Local Taxes & Customs Duties:**
 - VAT, customs clearance, or import duties (if applicable) are not included in the above pricing.

Should you need any clarification, please do not hesitate to contact us.

Thanks & regards,

METRI ENGINEERING SERVICES.

FAYEZ METRI (55572793 / 70500311)

