# Scope of Work Document

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# Supply, Installation, and Commissioning of Hemodialysis Units for Addu Equatorial Hospital (AEH)

**Project Title:** **Supply, Installation, and Commissioning of Hemodialysis Units for Addu Equatorial Hospital (AEH)  
Project Owner:** **Addu Equatorial Hospital (AEH)**  
**Approving Authority:** **Ministry of Finance & Planning**

## 1. Introduction

Addu Equatorial Hospital (AEH) is initiating the procurement of Hemodialysis Units under a reagent-rental model to strengthen renal care services in the southern Maldives. This project will ensure sustainable dialysis capacity and improve patient outcomes.

This document defines the scope of work (SOW) for the supplier(s) selected through the national tendering process.

## 2. Objective

The objective of this project is to procure, install, and operationalize **10 hemodialysis machines** with related equipment, while ensuring long-term consumables supply, training, biomedical support, water quality monitoring, and service maintenance under a reagent-rental model.

## 3. Scope of Work

## 3.1 Included in Scope

### Supply of Equipment

The total requirement under this project is:

* Ten (10) hemodialysis machines (HDF-compatible, CE/USFDA/ISO certified).
* Twelve (12) Reverse Osmosis (RO) systems (10 operational + 2 backup).
* Ten (10) dialysis chairs (with integrated IV poles and accessory rails).

This requirement is divided into **two lots**, to be awarded to two separate suppliers:

* **Each lot** shall consist of five (5) hemodialysis machines, five (5) operational RO systems with one (1) backup RO system, and five (5) dialysis chairs.

### Installation and Commissioning

* + Delivery, installation, calibration, and commissioning of all machines, RO units, and chairs.
  + Site Acceptance Testing (SAT) and submission of compliance documentation.
  + If requested by AEH, the Supplier shall provide an online (remote) demonstration at no cost to AEH, before accepatnce.

### Consumables & Reagent Rental Model

* + Continuous supply of consumables (acid/bicarbonate concentrates, dialyzers, tubing sets, disinfectants, etc.) for ten (10) years.
  + Machines shall be provided free of cost; consumables purchased under reagent-rental agreement.

### Training & Capacity Building

* Onsite operator training at commissioning for **15 nurses**, **5 doctors**, and **3 biomedical engineers**.
* Onsite **technical training** for **3 biomedical engineers** (machines + RO systems).
* **International training** for **≥2 AEH staff per year** (clinical and/or biomedical).
* At least one biomedical engineer/technician shall receive advanced training at the supplier’s facility/R&D center.

### Support Services & Maintenance

* + Preventive and corrective maintenance of all equipment, with spare parts and labor.
  + Supplier must keep essential spare parts at site or at the supplier’s warehouse for emergency shipment.
  + Service response obligations:
    - Remote/initial response within 2 hours of call.
    - On-site engineer/technician within 6 hours if issue not resolved.
  + A backup machine or equivalent arrangement shall be provided if any equipment is removed for workshop repair.
  + Supplier must ensure uninterrupted service; in case of downtime, a recovery plan with timelines must be submitted to AEH.
  + Supplier shall maintain ≥95% monthly uptime per machine and per RO

### Water Quality Testing

* + Biannual testing of dialysis water for endotoxins and Legionella.

## 4. Deliverables

1. Delivery and commissioning in two phases: Phase 1 – eight (8) dialysis machines, ten (10) RO systems (this includes one backup for each supplier), and eight (8) dialysis chairs; Phase 2 – two (2) dialysis machines, two (2) RO systems, and two (2) dialysis chairs.
2. Signed reagent-rental agreement covering ten (10) years of consumables supply.
3. SAT/FAT certificates, warranty documents, and compliance certificates.
4. Training completion reports (clinical + biomedical staff).
5. Advanced training for at least one biomedical engineer/technician.
6. Water testing reports.
7. Ownership of the machines shall transfer to AEH at the end of the ten (10) year rental period without additional cost.

## 5. Timeline & Phasing

* **Phase 1** (2025): 4 machines per supplier (total 8), 5 RO per supplier (total 10, including 2 backups), 4 chairs per supplier (total 8).
* **Phase 2** (2028): 1 machine per supplier (total 2), 1 RO per supplier (total 2), 1 chair per supplier (total 2).
* **Consumables Supply:** Continuous for ten (10) years from the date of contract signing.

## 6. Lots & Supplier Allocation

* The tender is divided into **two lots** to ensure distribution between suppliers, in line with Ministry of Health directives.
* Each lot consists of:
  + Five (5) hemodialysis machines.
  + Five (5) operational RO systems + one (1) backup RO system.
  + Five (5) dialysis chairs.
  + Reagent-rental consumables and all service obligations.

## 7. Compliance Requirements

The supplier shall comply with:

* International equipment standards (CE/USFDA/ISO or equivalent).

## 8. Governance

* **Project Owner:** Addu Equatorial Hospital (AEH).
* **Oversight:** Ministry of Finance & Ministry of Health.
* **Implementation Partner(s):** Selected supplier(s) under this tender.