



## **PROPOSED PROJECT FOR INSTALLATION OF VACUUM-INSULATED EVAPORATOR (VIE) TANKS AND VAPORIZERS IN TEN HOSPITALS IN MAINLAND TANZANIA**

Reference	CHAI-TZ-EAPOA-001/25
Posting Date	May 13 <sup>th</sup> 2025
Closing date	June 10 <sup>th</sup> 2025

## **BIDDING DOCUMENT FOR CIVIL WORKS COMPONENT FOR INSTALLATION OF VIE TANKS AND VAPORIZERS PROJECT UNDER SUPPORT FROM UNITAID**

Issued by:  
CHAI

### **1.0 PREAMBLE**

The Clinton Health Access Initiative (CHAI) is supporting the strengthening of medical oxygen ecosystems, including the improvement of medical oxygen availability and supply systems in Eastern Africa through support of UNITAID. The East Africa Program on Oxygen Access (EAPOA) aims to improve access to medical oxygen in low- and middle-income countries (LMICs) across East Africa. The initiative seeks to bolster the capacity of local manufacturers to meet the growing demand for medical oxygen.

CHAI intends to use part of the proceeds to cover for installation of Vacuum-Insulated Evaporator (VIE) tanks and Vaporizers in ten hospitals in Mainland Tanzania. The project will cover two main components; i) civil works, ii) installation of VIE tanks and vaporizers.

The project will cover the following sites: -

- i. Tumbi RRH in Kibaha,
- ii. BOCHI Hospital in Dar es Salaam
- iii. Morogoro RRH
- iv. Dodoma RRH
- v. Manyara RRH
- vi. Mount Meru RRH
- vii. Songea RRH
- viii. St. Benedict Ndanda Referral Hospital

- ix. Sekou-Toure RRH in Mwanza, and
- x. Mbeya RRH

\*Bidders may respond and submit their proposal for all or selected facilities.

In collaboration with Expert-Team, Ministry of Health and Hospital Biomedical Engineering Teams, CHAI has planned that the project will include six (6) main tasks.

This document provides the technical and commercial specifications for the construction, installation and commissioning of concrete plinth, security fencing, and, the other related civil/service works related infrastructure items.

## **2.0 LANGUAGE AND CURRENCY OF BID**

The language of Bid is English and, pricing in Tanzanian Shillings.

## **3.0 CLARIFICATIONS OF BID**

For any clarification / queries please write to us at [chaitzprocurement@clintonhealthaccess.org](mailto:chaitzprocurement@clintonhealthaccess.org); with bid reference number in the subject line by May 26<sup>th</sup>, 2025. CHAI may contact respondents for further discussions regarding submissions and subsequent procurement.

## **4.0 SCOPE OF WORKS**

This Bid makes provision for the followings: -

- a) Reinforced concrete plinth to support the 6t-VIE-Tank;
- b) Palisade fencing around three-sides of the plinth perimeter;
- c) Solid-cement sand-blocks / bricks with strength of 4.5MPa wall on one side of the plinth perimeter and, Paving-blocks Apron around the plinth-perimeter;
- d) Electrical installations that include 3-phase-power-sockets and, 2-security-lights fixed on steel-poles;
- e) Tap-water near oxygen-tank for de-icing of valves or to handle emergency situations;
- f) Fire-fighting-system which is subject to tender-outcome.

## **5.0 COLLABORATIONS**

The VIE-Tank will be supplied and installed by the other Vendor;

The VIE-Tanks Vendor will supply the Anchor-Bolts to be embedded in the reinforced concrete slab by VIE-Civil-Contractor as per the Drawings, specifications and directions;

Anchor-Bolts for Vaporizers will be supplied and fixed in reinforced concrete slab complete with washers by VIE-Civil-Contractor as per the Drawings, specifications and directions;

## **6.0 TYPE OF CONTRACT**

This contract will be a direct contract to be executed by the successful vendor who will be the "Building Contractor", as referred to in this document and CHAI who will be the "Client".

The standard CHAI procedure for appointment of contractor will be used. The appointment will be according to the internal manual and policy. The standard Purchase Order (PO) attached for easy reference will be used as the contract appointment document. CHAI and Expert-Team will act as the Engineer and Principal Agent. The Principal Agent shall make provision for and purchase the above documents.

## **7.0 BID ELIGIBILITY**

This is an open Bid to all prospective contractors.

The Bid will be issued to any Registered Building Contractor by Contractors Registration Board (CRB) in Class-Five (5) together with, a specialist domestic Electrical Sub-contractor for provisions of appropriate sketch and implementation of power and security-lights. They are able to substantiate their competence with a track record of construction, manufacturing and installations of reinforced concrete structures, steel fencing and building works. The Local Contractors are encouraged for the project.

## **8.0 EVALUATION AND ADJUDICATION**

The Bid will be evaluated and adjudicated by Evaluation-Committee, CHAI-Procurement and, Adjudication by CHAI-Management as per approved CHAI's Procurement Policy.

A written recommendation will be made to CHAI-Procurement who will review the recommendation against their procurement policy and, advise the CHAI-Management for a final appointment. The appointment will be awarded based on local content, completeness of document submission (proving competency and capability) and price according to the following formula:

Description	Percentage
Local Content – Locally Registered Building-Contractor by CRB in Class Five (5) and above	10%
Completeness – of submission of the following compulsory documents: - a) Certificate of Incorporation as issued by BRELA; b) Power of Attorney for the Authorizing Person; c) Current Tax Clearance from Tanzania Revenue Authority; d) Current Business License; e) Banking details – statements, possibility of credit-facilities and Account Number and Name; f) Proof of Registered Address; g) Complete priced Bills of Quantities (BOQs) initialed in all pages; h) List of similar projects completed over the past 3-years by showing the title, location, client name, consultant and, value; i) List of projects underway; j) Program of Work k) Method Statement	10%
Technical Competency to all sites: - a) Past-experience in terms of similar projects completed; b) Duration c) Method Statements to substantiate the operations;	20%

d) Availability of qualified registered Civil/Structural Engineers, Civil Technicians, Electrical Technicians and Masons for the assignments;	
e) Availability of Concrete-Mixers, Plate-compactors and Vibrators;	
Financial Competency – Price	60%
TOTAL	100%

## **9.0 REQUIRED BIDDER COMPETENCY**

Only submissions from companies with proven capability and competence will be considered. The Contractor will be;

- a) A Registered Local Company, with all attachments under chapter six (6) above with completeness in items a)-k);
- b) Be able to demonstrate successful previous erections and installation of reinforced concrete work, earthworks, general construction and building works;
- c) Have adequate technical capacity to execute the specified work;

## **10.0 CONTRACT PRICE**

This will be a fixed price contract based on the priced Bills of Quantities.

## **11.0 EXTRA PAYMENTS**

Contractors must acquaint themselves fully with the local conditions of the sites and the requirements of this specification. CHAI will not consider any later claims by the successful Contractor for extra payment arising out of underestimating any of the requirements.

## **12.0 PROGRAM AND COMPLETION**

The period for completion of the work will be proposed by Contractor in her program of work, reviewed by CHAI and agreed on between CHAI and the Contractor taking the operational requirements of the facility into account.

CHAI shall indicate on the Purchase Order (PO) the contract the days required to complete the project. The PO will be adjusted not to penalize the contractor due to restriction in access. The Contractor shall state the time, in days, required for completion of the contract in the Priced BOQs and such time will be used as contractual completion time of the project.

## **13.0 METHOD STATEMENT**

The Contractor will be required to complete a work method statements for the implementations

## **14.0 HEALTH AND SAFETY**

The Contractor will adhere to all Health & Safety requirements of the Hospital and CHAI's Environmental Management and Mitigation Plan and seek relevant permissions timeously to operate in the environment where necessary.

The Contractor shall supply and maintain all safety equipment, personal protective equipment and any other assistance and equipment required to gain access to work areas.

## **15.0 ACCESS AND CONTROL**

The contractor and all other employees will be required to keep a register of time on site and handed to the Expert-Team / CHAI on request

## **16.0 PARTICULAR SPECIFICATIONS**

Drawings:

- a) No changes are to be done to the drawings without approval of the design structural engineer.
- b) All dimensions are in mm unless otherwise stated and/or indicated on the drawing.

Concrete Quality:

- a) Structural members concrete class 30 i.e. 28-day compressive strength of 30mpa;
- b) Blinding class 10 i.e. 28-day compressive strength of 10mpa;
- c) Maximum aggregate size is 20mm; Crushed Granite like Msata quarry.
- d) Cement 42.5N, from any factory in Tanzania;
- e) Sand, complies with B.S.1200.

Steel Reinforcement:

- a) Hot rolled high yield steel bars, complying with BS4449, with high yield strength of 460mpa;
- b) Cutting and bending should follow shape codes and specifications in BS8666:2005 as a scheduling code.
- c) Steel reinforcement bars should not be used until they have been tested for their suitability. Among other quality tests, tensile and bend/re-bend strength tests must be done.
- d) Steel reinforcement bars may be lap spliced if necessary provided the lap length of bars is 50 times the diameter of the bars lapped and the laps well staggered.

Structural Steel and Connection Members:

- a) H-Columns and base plates should meet steel grade s275, i.e. nominal yield strength of 275mpa.
- b) Anchor bolts/nuts should meet strength grade 8.8 i.e. nominal yield strength of 640mpa, and ultimate tensile strength of 800mpa.
- c) Weld fillets should be such that its ultimate strength is at least 450mpa.

Concrete Cover:

The concrete cover to reinforcement bars shall be as follows: -

- a) Any concrete source in contact with soil: 50mm
- b) Otherwise: 30mm.

Unless Noted Otherwise on the Drawings,

All exposed concrete edges having a contained angle < 120deg shall be provided with 25mm fillets or chamfers as appropriate.

Joints between Reinforced Concrete Members

- a) Joints must be provided with sufficient tie re-bars in accordance with Euro-code.
- b) End hooks of link re-bars must make an angle of 135 degree and sufficient length as shown in the drawings/bending schedules.

## **17.0 SITE OFFICE**

If required the contractor, in coordination with CHAI and Hospital-Team the Contractor may be provided with site office.

The safekeeping of all equipment and tools shall be the responsibility of the contractor until the acceptance date.

## **18.0 HANDLING OF MATERIAL**

- a) The Contractor shall be responsible for providing all the required equipment for the offloading and proper handling of the material on site.
- b) The contractor shall be responsible for storing material and equipment on site, without obstructing movements of any facility business related to its daily operations.

## **19.0 DOCUMENTS APPLICABLE**

The following documents should be read in conjunction with this bid:

- a) Draft Purchase Order;
- b) Drawings (architectural and structural);
- c) Unpriced Bills of Quantities.
- d) Verifications of Proposed Project.

## **20.0 INSPECTION AND TESTING**

On completion of the installation, the contractor shall carry out his/her own inspections to ensure that the installation and equipment comply with safety standards before notifying the Experts-Team/CHAI.

The Experts-Team/CHAI will not act as the Contractor's inspector or quality control official but to ensure that the work has been completed and to standard.

The Experts-Team should be notified no less than 5 days before completion for sign-off. No snagging procedure shall apply. Work completion shall be accepted or rejected per section as set out in the Completion-Milestones.

## **21.0 CONTRACT COMPLETION MILESTONES**

Sectional Completion Sectional Completion and Payment Certificates will be issued once the following has been achieved:

- a) Installation and commissioning of the Reinforced Concrete Plinth, security fencing on site, and blockwork/brickwork including commissioning documentation has been accepted by the Experts-Team.

Works Completion Works Completion will be issued after:

- b) All sectional completion certificates have been issued.

## **22.0 PRICE SCHEDULES**

- a) Contractors are required to submit unit prices as indicated in the “Bill of Quantities”.
- b) Price to hold firm for ninety (90) days from bid closing date.

## **23.0 PENALTIES**

The following penalties shall be applicable:

- a) If the contractor fails to complete the project within the agreed timeline as outlined in the contract and annexed schedule, a penalty of 0.1% of the total contract value will be applied for each day of delay, up to a maximum of 10%. This penalty will be deducted from the final payment to the supplier. Exceptions will only be considered for delays caused by force majeure or other circumstances beyond the supplier's control, subject to CHAI's approval.
- b) Failure and disregard to follow instructions issued by the Experts-Team/CHAI may result contract termination.
- c) This will not be the sole and exclusive remedy available to CHAI.

## **24.0 SITE VISIT FOR BIDDING PURPOSES**

Due to the complexity of this work, compulsory site visits will be arranged on 22<sup>nd</sup> May, 2025. Please download Annex C site visit form and submit it

Bids from Bidders who did not attend the compulsory site visit will not be considered.

## **25.0 TERMS AND CONDITIONS**

- a) If successful, the Contractor will follow the normal CHAI procurement process.
- b) CHAI's Terms and Conditions stipulated in the Purchase Order shall apply.

## **26.0 COMPULSORY SUBMITTABLE DOCUMENTS**

- a) The “Tender Submission Document” completed, initialed on each page and signed.
- b) Completed Bill of Quantities together with clear rates for items
- c) Certificate of Incorporation as issued by BRELA
- d) Bid Form.
- e) Registration with Contractors Registration Board (CRB)
- f) Current Tax Clearance from Tanzania Revenue Authority
- g) Power of Attorney for the Authorizing Person;
- h) Current Business License;
- i) Banking details – statements, possibility of credit-facilities and Account Number and Name;
- j) Proof of Registered Address;
- k) Complete priced Bills of Quantities (BOQs) initialed in all pages;
- l) List of similar projects completed over the past 3-years by showing the title, location, client name, consultant and, value;
- m) List of projects underway;
- n) Program of Work
- o) Method Statement

## 27.0 SUBMISSION DATE AND TIME

The completed bid submission must be filled out by hand, scanned and submitted electronically on or before Monday June 9<sup>th</sup>, 2025 in pdf to [chaitzprocurement@clintonhealthaccess.org](mailto:chaitzprocurement@clintonhealthaccess.org) by the closing date stated on the returnable document.

No late submissions shall be accepted.

## 28.0 FORMS

### 28.1 Bid Form

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including
- (b) We offer to execute in conformity with the Bidding Documents the following Works:  
\_\_\_\_\_  
\_;
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:  
\_\_\_\_\_;
- (d) The discounts offered and the methodology for their application are:  
\_\_\_\_\_;
- (e) Our bid shall be valid for a period of \_\_\_\_\_ [insert validity period as specified in days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries;
- (g) We, including any subcontractors or suppliers for any part of the contract, do not have any conflict of interest;
- (h) We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in the country of the Employer, as such laws have been listed by the Employer in the bidding documents for this contract.
- (i) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (j) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive; and
- (k) If awarded the contract, the person named below shall act as Contractor's Authorizing Person: \_\_\_\_\_

Name:	
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In the capacity of:	
Signed:	
Duly authorized to sign the Bid for and on behalf of:	
Date:	

## 28.2 Subcontractors Form

Please provide a list of qualified sub-contractors (if any) that will be deployed on the project:

No.	Subcontractors	Scope

## 28.3 Construction Manager Form

Please give the name and, attach a copy of the Professional Registration Certificate of the person under whose authority the constructions shall be done.

## 28.4 Capacity Form

Number of Civil Engineering Degree/Diploma Qualified staffs available for the project [names, years of experience]:

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Number of Civil and Electrical Technicians available for the project [names, years of experience]:

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Number of Masons available for the project [names, years of experience]:

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## 28.5 Draft Purchase Order

Attached in separate file.

## 28.6 Pricing the BOQs

Please download Annex A – BOQs and submit it