



**TURNKEY CONSTRUCTION AND INSTALLATION OF:**

- 1) A REINFORCED CONCRETE PLINTH TO SUPPORT LIQUID OXYGEN TANK
- 2) CLEAR-VU SECURITY FENCING AROUND THE PLINTH PERIMETER
- 3) BRICK WALLS LINING THE UNDERGROUND RECTANGULAR CHANNEL TO HOUSE THE OXYGEN COPPER PIPE
- 4) CONCRETE BLOCKS TO COVER THE PIPE HOUSING CHANNEL

**AT THE**  
UNIVERSITY TEACHING HOSPITAL (UTH) SITE, IN LUSAKA, ZAMBIA

(Hereinafter called **University Teaching Hospital Civil Works Project**)

**DIRECT CONTRACT WITH**  
**RIGHT TO CARE NPC**  
(hereinafter referred to as "**RtC**")

**ISSUE DATE: 26 December 2024**

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## **1 PREAMBLE**

The University Teaching Hospitals (UTH) in Lusaka is approximately 800 beds capacity with a 75-80% average bed occupancy. Some areas of the complex have a higher occupancy rate.

The Lusaka University Teaching Hospitals complex was initially a single hospital, but for management reasons it was split into five (5) separate hospitals:

- Adult Hospital;
- Women and New-borns Hospital;
- Children's Hospital;
- Cancer Hospital; and
- Eye Hospital.

All these hospitals, except the Children's Hospital that is on a separate terrain but linked with a service road, are within one geographical area. Right to Care is a Non-Governmental Organisation (NGO) that is the implementation partner of USAID for healthcare aid in Southern Africa.

In collaboration with the Zambia Ministry of Health (ZMoH), RTC has determined that construction and installation reinforced concrete plinth to support Liquid Oxygen [LOX] Tank, accompanying Clear-VU security fencing around the LOX tank and the underground brickwork lined channel housing the copper oxygen pipe capped with concrete blocks, will significantly improve the healthcare delivery capability of the abovementioned Hospital.

This document provides the technical and commercial specification for the construction, installation and commissioning of concrete plinth, Clear-Vu security fencing, brickwork lined underground channel to house the oxygen copper pipe and, the other related civil works related infrastructure items.

## **2 SCOPE OF WORK**

This Tender makes provision for the following:

- 1) Construction and installation of reinforced concrete plinths to support Liquid Oxygen [LOX] tank, Clear-Vu fence around the plinth perimeter and the brick wall lined underground channel to house the oxygen copper pipe at the University Teaching Hospital (UTH) location site in Lusaka. The reinforced concrete plinth should be ready to accommodate the LOX tank when delivered to site, offloaded and level placed on it.
- 2) Construction of steel poles and Clear-Vu security fence around the plinth perimeter with double gates.
- 3) Construction of brick walls lining the underground channel to house the medical oxygen copper pipe.

### **3 EXCLUSIONS**

The following is hereby excluded:

- 1) All mechanical works.

### **4 TYPE OF CONTRACT**

This contract will be a direct contract to be executed by the successful service provider who will be the "Contractor", as referred to in this document and RTC who will be the "Client". The standard RTC contractor application/approval process will apply should the successful bidder not be a current RTC vendor.

The appointment will be according to the Joint Building Contracts Committee (JBCC) Minor Works Contract or the International Federation of Consulting Engineers( FIDIC) contract . The Principal Building Agreement, Principal Building Agreement Contract Data EC and Principal Building Agreement CE will be used as the contract appointment document.

RTC will act as the Engineer and Principal Agent.

The Principal Agent shall make provision for and purchase the above documents.

### **5 TENDER ELIGIBILITY**

This is an open Tender to all prospective contractors.

The Tender will be issued to any suppliers that are able to substantiate their competence with a track record of construction, manufacturing and installations of reinforced concrete structures, steel fencing and building works.

Contractors that are registered in Zambia and/or are familiar with the installation (i.e. have previously performed work in Zambia) will be given the opportunity to submit a proposal.

### **6 EVALUATION AND ADJUDICATION**

The Tender will be evaluated and adjudicated by RTC Evaluation and Adjudication committee as per approved Procurement Policy. A written recommendation will be made to RTC. RTC will review the recommendation against their procurement policy and will issue a final appointment instruction to the Principal Agent.

The appointment will be awarded based on local content, completeness of document submission (proving competency and capability) and price according to the following formula:

<b>Description</b>	<b>Percentage</b>
Local Content – Locally registered suppliers	10%
Completeness – of the compulsory documents	10%
Price	80%
<b>TOTAL</b>	<b>100%</b>

## **7 REQUIRED BIDDER COMPETANCY**

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

1. A Registered Local Company, with attached Company registration documents, letter of Good Standing from Zambia Revenue Authority [ZRA], proof of banking details and proof of Company registered address
2. Be able to demonstrate successful previous erection and installation of reinforced concrete work, earthworks and stormwater drainage systems and general construction and building works.
3. Have adequate technical capacity to execute the specified work.

## **8 CONTRACT PRICE, ADJUSTMENT AND VARIATION ORDERS**

This will be a fixed price contract based on the pricing schedule.

Should quantities differ from the Bill of Quantities, the contractor may request a Variation Order up to five ( 5) % of the value of works.

The service provider shall make provision in his submission base price for possible fluctuations in all other costs.

## **9 EXTRA PAYMENTS**

Service providers must acquaint themselves fully with the local conditions of the sites and the requirements of this specification. RTC will not consider any later claims by the successful service provider for extra payment arising out of underestimating any of the requirements.

## **10 RATE OF EXCHANGE**

This Tender will not be subject to fluctuations in the rate of exchange and need to be quoted in the local currency of the country where the project will be executed.

## **11 PROGRAMME AND COMPLETION**

The period for completion of the work will be agreed on between the Principal Agent and the Contractor taking the operational requirements of the facility into account. The Principal Agent shall indicate on the JBCC or FIDIC contract the days required to complete the project.

The JBCC or FIDIC contract will be adjusted not to penalise the contractor due to restriction in access.

The service provider shall state the time, in days, required for completion of the contract in the Price Schedule and such time will be used as contractual completion time of the project.

## **12 METHOD STATEMENT AND DRAWINGS**

The Contractor will be required to complete a work method statement for the installation.

## **13 HEALTH AND SAFETY**

The Contractor will adhere to all Health & Safety requirements of the Hospital and RTC'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.

## **14 ACCESS AND CONTROL**

The contractor and all other employees will be required to keep a register of time on site and handed to the Principal Agent on request.

## **15 STANDARDS AND CODES**

The installation shall be according to the following standards as far as practical.

1. Design of Steel Frame: Steel Designer's Manual.
2. SANS 517: 2009 - Light Steel Frame Building
3. SANS 10100 – 1: 2000 – Structural Use of Concrete
4. SANS 10164 -1: Structural Use of Masonry
5. SANS 10400 – Part A: Exploring the Foundations of Building regulations.
6. SANS 5861/3, 5863 – Curing and Compressive Strength of Concrete Cubes

## **16 STRUCTURAL STEEL**

Steel work:

1. All steelwork to be grade S355JR or Grade 350 WA and comply with requirements of SANS 1921-3, SANS 10162-1 and SANS 2001-CS1.
2. The contractor shall be solely responsible for final verification of all steelwork dimensions before manufacturing any components on or off site.
3. The contractor shall be responsible for fabrication drawings that show all necessary details, dimensions and welding and welding inspection requirements to enable fabrication of components. The engineer will require five working days for approval of drawings.
4. No punching of holes will be permitted.
5. All bolts for main members shall be G8.8 M20 u.n.o.
6. All bolts for minor members (purlins, girts) shall be G4.8
7. Flame cutting of holes on new members will not be permitted.
8. Flame cutting of holes on/or existing steelwork will not be permitted without the client's prior permission.
9. Welding shall be done by, or under the supervision of a welder with a qualification that is compliant with ISO 9606 Pt 1.
10. All welds to be 6mm continuous fillet welds and electrodes to be E70XX u.n.o.

## **17 SITE OFFICE**

If required the contractor, in coordination with the maintenance manager shall provide his own site office.

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

## **18 HANDLING OF MATERIAL**

The Contractor shall be responsible for providing all the required equipment for the off-loading and proper handling of the material on site. 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 DOCUMENTS APPLICABLE**

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



- i. Scoping Report for The University Teaching Hospitals (UTH) in Lusaka, Zambia dated 11<sup>th</sup> April 2023
- ii. RTC's Zambia University Teaching Hospitals Construction Drawings on University Teaching Hospitals LOX Tank plinth.

## **20 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 Engineer.

The Engineer 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 Engineer 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 below.

## **21 CONTRACT COMPLETION MILESTONES**

### **21.1 Sectional Completion**

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

1. Installation and commissioning of the Reinforced Concrete Plinth and diamond security fencing on site, and brickwork lined underground channel to house medical oxygen copper pipe, including Commissioning documentation has been accepted by the engineer.

### **21.2 Works Completion**

Works Completion will be issued after:

1. All sectional completion certificates have been issued.

## **22 PRICE SCHEDULES**

Service providers are required to submit unit prices as indicated in the "Bill of Quantities".

Provisional and General (P&G) to be indicated separately.

Price to hold firm for ninety (90) days from tender closing date

## **23 PENALTIES**

The following penalties shall be applicable:

1. Late sectional completion (as defined in this document) of the project at maximum of five (5)% of project value per week or part thereof.
2. Failure and disregard to follow instructions issued by the engineer may result contract termination.
3. This will not be the sole and exclusive remedy available to RTC.

## **24 SITE VISIT FOR TENDERING PURPOSES**

Due to the complexity of this work, a compulsory site visit will be arranged on **22<sup>nd</sup> January 2025**. Bids from Bidders who did not attend the compulsory site visit will not be considered.

## **25 GENERAL CONDITIONS**

If successful, the Contractor will follow the normal RTC procurement process. RTC Standard Procurement Terms and Conditions shall apply.

## **26 COMPULSORY SUBMITTABLE DOCUMENTS**

The following documents need to be compulsorily submitted by the Tender closing date: **31<sup>st</sup> January 2025**

1. The "Tender Submission Document" contained as Addendum A that is completed, initialled on each page and signed.
2. Completed Bill of Quantities together with clear rates for items
3. Copy of the Contractor's registration with the Department of Labour and Social Security
4. Covering letter of introduction and competency.
5. Registration with the National Council for Construction (NCC)
6. Patents and Companies Registration (PACRA) documents
7. Certificate of incorporation
8. Certificate of tax clearance

## **27 SUBMISSION DATE AND TIME**

The completed tender submission must be filled out by hand, scanned and submitted electronically in .pdf to [procurement@righttocare.org](mailto:procurement@righttocare.org) by the closing date stated on the returnable document.

No late submissions shall be accepted.



# BID SUBMISSION DOCUMENT

## SPECIFICATION AND TENDER QUOTE DOCUMENT FOR:

- 1) A REINFORCED CONCRETE PLINTH TO SUPPORT LIQUID OXYGEN TANK
- 2) CLEAR-VU SECURITY FENCING AROUND THE PLINTH PERIMETER
- 3) BRICKWORK LINED UNDERGROUND RECTANGULAR CHANNEL TO HOUSE THE OXYGEN COPPER PIPE
- 4) CONCRETE BLOCKS TO COVER THE PIPE HOUSING CHANNEL

**AT THE UNIVERSITY TEACHING HOSPITALS SITE, IN LUSAKA, ZAMBIA**

(Hereafter called **The University Teaching Hospitals Civil Works Project**)

**DIRECT CONTRACT WITH**

RIGHT TO CARE NPC

(hereinafter referred to as “**RtC**”)

**CONTRACTOR NAME:**

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**CLOSING DATE: Friday 31<sup>st</sup> JANUARY 2025 @ 12h00**

Electronic submission in .pdf to: [procurement@righttocare.org](mailto:procurement@righttocare.org)

Please scan this document, completed by hand, initialed on each page and signed

# 1 SCOPE OF WORK

This Tender makes provision for the following:

- 1) Construction and installation of reinforced concrete plinth to support Liquid Oxygen [LOX] tank, Clear-Vu security fence around the plinth perimeter and brickwork lined underground channel housing medical oxygen copper pipe at The University Teaching Hospitals location site in Lusaka. The reinforced concrete plinth should be ready to accommodate the LOX tank when delivered to site, offloaded and level placed on it.
- 2) Construction of steel poles and clear-Vu security fence around the plinth perimeter with double gates.
- 3) Construction of brick walls for the underground channel to house medical oxygen copper pipe.

# 2 COMPETENCY

## 2.1 Company Registration

The company is registered with the Ministry of Labour:

Please attach a copy of registration.

## 2.2 Responsible Person

Please attach a copy of the registration card of the person under whose authority the installation shall be done.

## 2.3 Sub-Contractors

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

Nr	Sub-Contractor	Scope
1		
2		
3		
4		

## 2.4 Capacity

Number of Civil Engineering Degree/Diploma Qualified staff available for the project:

.....

Number of non-qualified staff in full time employment available for the project:

.....

### **3 REQUIREMENTS**

Please provide a completed Bill of Quantities with clear rates.

### **4 PRICING SCHEDULE**

Our price schedule for achieving the scope of work is in Zambian Kwacha as follows:

#### **4.1 Pricing**

Reinforced concrete plinth is proposed at The University Teaching Hospitals site, which is designed to support Liquid Oxygen tank [30Tonne] to supply hospital oxygen needs.

Suitable position is identified adjacent to the existing road passing directly behind the University of Zambia Block in UTH compound (Refer to the RTC scoping report – Option 1 in the report).

The proposed position will be suitable due to pressure distribution throughout the entire hospital and most importantly due to safe access by the Liquid Oxygen delivery truck.

The specification for the LOX tank is provided in the oxygen reticulation tender document. This document provides guide for reinforced concrete plinth and relevant civil works and fencing.

**Bill of Quantities for Civil Engineering Works**

Item No.	Description	Unit	Qty	Unit Price	Total
<b>1.</b>	<b>Ps &amp; Gs</b>	Sum			
1.1	OHS Compliance	Sum			
1.2	Environmental Compliance (Environmental Management & Mitigation Plan: EMMP). Reference should be made to RTC EMMP document	Sum			25 000
<b>2.0</b>	<b><u>Excavations</u></b>	Sum			
2.1	Remove and spoil existing soil in preparation for concrete plinth foundation	m3	54		
2.2	Dig trench for pipe housing channel (section: 950 x 500 x length to be determined on site) in mm	m3	30		
2.3	Import G5 material to fill all excavated areas, compact to 98% Mod. AASHTO prior to casting concrete	m3	15		
<b>3.0</b>	<b><u>Brickwork</u></b>				
3.1	Double brick wall with brick force on every course (2 x 500 mm deep x 120 m long)	m	120		

<b>4.0</b>	<b><u>Concrete</u></b>				
4.1	30 MPa concrete/ 19 mm stone aggregates	m3	38		
4.2	Concrete (30 MPa) for pipe bridge footings (300 mm x 300 mm x 300 mm) with 50 mm cover	No.	10		
4.3	Concrete blocks/caps for pipe housing channel (section 940 x 500 x 100) mm	No.	120		
4.4	Concrete lining on bottom of channel (50 mm thick x length to be determined on site)	m3	5		
4.5	9 Concrete cubes samples adequately cured in water to be tested at 7, 14 and 21 days with reputable materials laboratory.				
4.6	Steel Plates Formwork (apply form oil)	m2	72		
<b>5.0</b>	<b><u>Steel</u></b>				
5.1	<b><u>Reinforcement Steel</u></b>				
5.2	Y12 reinforcing bars (refer to drawing plan 04-LOX) (Y12 weight of 5.32Kg/6m length)	Kg	248.2		
5.3	R8 stirrup bars (refer to drawing plan 04-LOX) (R8 weight of 2.37kg/6m length)	Kg	574		

5.4	Ref .888 MESH (MESH to be placed on cover spacers at the bottom)	m2	36		
5.5	Ref. 395 (MESH to be placed 50 mm from the top)	m2	36		
5.6	Ref. 193 (MESH to be 40 mm from the top of concrete cover blocks)	m2	56.4		
<b>6.0</b>	<b><u>I-Section Mini Columns</u></b>				
6.1	I-Section Support Legs	No.	3		
<b>7.0</b>	<b><u>Fencing</u></b>				
7.1	Poles (T-Posts 100mm x 60mm)	No.	25		
7.2	Clear-Vu fence panels (3305 x 2400) (Take note the entire length/circumference of the is 27m)	No.	30		
7.3	Bolts & nuts (Anti-Tamper Screws)	Sum			
7.4	2 Gates should be provided (Refer to drawing 04-LOX)	No.	2		
<b>8.0</b>	<b><u>Stand Pipe</u></b>				
8.1	Water tap (water tap to be connected from the nearest source point)	Sum	1		30 000
<b>9.0</b>	<b>Miscellaneous builders work</b>	Sum			



<b>10.0</b>	<b>Plant &amp; Machinery</b>	Sum			
<b>11.0</b>	<b>Contingencies (10%)</b>	Sum			
Subtotal					
VAT					
Total					

Total ZMW.....

Add 10% Contingency ZMW.....

Add V.A.T ZMW.....

Total Quote Price: ZMW

Quote price in words.....

.....

**Price to be firm for 90 days from date of tender closing date.**

**5 CONTRACT PERIOD**

Lead time, in days, from order, required for manufacturing: .....days

Time, in days, required for delivery, placement, commissioning: .....days

**6 SERVICE PROVIDER's STATEMENT**

I/We submit quote for the execution of the services as described herein:

SERVICE PROVIDER's REGISTERED NAME AND ADDRESS (For JBCC Appointment):

.....  
.....  
.....

SERVICE PROVIDER'S CONTACT NUMBER:

.....

COMPANY REGISTRATION NUMBER (For JBCC Appointment):

.....

COMPANY VAT NUMBER (For JBCC Appointment):

.....

Service Provider's Authorised Signatory

.....

Capacity: .....

TELEPHONE NO: ..... DATE: .....