



EXPRESSION OF INTEREST (EOI)

Consultancy Services for the Design and Conversion of Laundry Facility into Radiology & Emergency Unit

1. About CCBRT

Comprehensive Community-Based Rehabilitation Tanzania (CCBRT) is a locally registered non-governmental organisation established in 1994 and operating specialised healthcare services in Dar es Salaam and Moshi. CCBRT is the country's leading provider of super specialised services in disability, rehabilitative and maternal healthcare services while considering the community by providing services to the vulnerable people through a dedicated window supported by development partners/like minded donors.

In 2022, CCBRT commissioned a purpose-built Maternal and Newborn Wing in Dar es Salaam to expand access to quality maternal healthcare for underserved women, including women with disabilities and former obstetric fistula patients. The facility has an inpatient capacity of approximately 200 patients.

To meet increasing demand for diagnostic and emergency services, CCBRT plans to **convert an existing two-storey laundry facility into a fully functional Radiology and Emergency Unit.**

2. Objective of the Assignment

The objective of this consultancy is to **assess, design, and provide implementation guidance** for the conversion of the existing laundry facility into a **safe, compliant, and efficient Radiology and Emergency Unit.**

4. Scope of Work

The selected consultant/firm will be responsible for the following:

4.1 Feasibility & Assessment

- Assess the suitability of the existing structure for radiology and emergency services
- Conduct structural integrity evaluation
- Evaluate site constraints, accessibility, and expansion potential
- Perform risk assessment (structural, environmental, operational)

4.2 Architectural & Engineering Design

- Develop detailed architectural designs (layouts, elevations, sections)
- Produce structural engineering designs and reinforcement requirements



- Prepare comprehensive MEP designs (mechanical, electrical, plumbing)
- Design HVAC systems suitable for radiology and emergency environments
- Ensure infection prevention and control (IPC) considerations are integrated

4.3 Radiation Safety & Shielding

- Define radiation shielding requirements (walls, doors, glazing, ceilings)
- Ensure compliance with national and international radiation safety standards
- Coordinate shielding design with equipment specifications (X-ray, CT, etc.)

4.4 Functional Planning & Workflow Optimization

- Design efficient patient flow (emergency triage → imaging → treatment)
- Separate clean and contaminated pathways
- Optimize staff movement and operational efficiency
- Plan equipment positioning and accessibility
- Ensure disability-friendly access and universal design principles

4.5 Structural & Infrastructure Modifications

- Identify all required structural alterations within the building and outside pathways to ensure smooth patient movements
- Recommend reinforcement where needed for heavy imaging equipment
- Assess floor load capacity and vibration control requirements

4.6 MEP Systems Design

- Electrical systems (including backup power, UPS, generator integration)
- Medical gas systems (if applicable)
- Plumbing and drainage systems
- Fire detection and suppression systems
- Data, IT, and PACS infrastructure for radiology

4.7 Regulatory Compliance

- Ensure compliance with:
 - Tanzanian healthcare facility regulations (e.g Radiation safety authorities, Building codes and standards, Occupational health and safety requirements)
- Support documentation required for approvals and permits

4.8 Equipment Planning & Technical Specifications

- Develop technical specifications for radiology equipment installation

- Provide room data sheets for each functional space
- Identify equipment requirements (CT scan, X-ray, ultrasound, emergency equipment)
- Ensure compatibility with building systems

4.9 Wayfinding, Interior Signage & Hospital Navigation Systems

The consultant shall design a **comprehensive wayfinding and signage system** to ensure clear, safe, and efficient navigation to and within the Radiology & Emergency Unit.

This shall include:

- **External Directional Signage**
 - Wayfinding from key hospital entry points to the Emergency Unit
 - Clear emergency access routes for ambulances and walk-in patients
 - Visibility and readability under day and night conditions
- **Internal Directional Signage (Hospital-wide Integration)**
 - Directional signs from major hospital nodes (main entrance, outpatient, wards, parking areas) to the new unit
 - Consistent integration with existing hospital signage systems
 - Color-coded or zoned navigation strategies
- **Departmental Signage (Within the Unit)**
 - Identification signs for all rooms (e.g., X-ray, CT, triage, resuscitation, waiting areas)
 - Regulatory and safety signage (radiation warnings, restricted access areas, PPE requirements)
 - Patient instruction signage
- **Accessibility & Inclusive Design**
 - Use of universal symbols and pictograms
 - Braille signage where appropriate
 - High-contrast, readable fonts for visually impaired users
 - Multilingual signage (e.g., English and Swahili)
- **Digital & Dynamic Signage (Optional/Recommended)**
 - Patient flow screens (queue management, directions)
 - Integration with hospital information systems where feasible
- **Technical Specifications**
 - Materials suitable for healthcare environments (durable, easy to clean, infection-control compliant)
 - Mounting details and placement standards
 - Lighting considerations for visibility
- **Signage Master Plan Deliverables**
 - Signage strategy document
 - Location plans for all signs (hospital-wide and within the unit)



- Design templates and branding guidelines
- Bill of Quantities (BoQ) for signage production and installation

4.9 Costing & Implementation Planning

- Prepare detailed cost estimates (CAPEX)
- Provide Bill of Quantities (BoQ)
- Develop phased implementation plan (if required)
- Provide project timeline and milestones
- Recommend procurement strategy

4.10 Sustainability & Resilience (Additional Deliverables)

- Incorporate energy-efficient solutions
- Recommend environmentally sustainable materials
- Design for climate resilience (heat, humidity, flooding considerations)

4.11 Quality Assurance & Supervision Support

- Provide design review support during implementation
- Offer technical advisory during construction phase
- Develop quality control guidelines

4.12 Documentation & Deliverables

- Concept designs and reports
- Detailed construction drawings
- Engineering calculations
- Technical specifications
- Compliance documentation
- Final design report

5. Expected Outputs

- Feasibility assessment report
- Approved architectural and engineering drawings
- Radiation shielding report
- MEP and structural design package
- Equipment layout and specifications
- Cost estimates and BoQ
- Implementation plan and timeline

6. Consultant Qualifications



Interested firms/consultants should demonstrate:

- Proven experience in hospital design and radiology facilities
- Expertise in radiation shielding design
- Multidisciplinary capability (architecture, structural, MEP)
- Experience in healthcare projects in Africa or similar contexts
- Knowledge of local regulatory frameworks in Tanzania

7. Mandatory Site Visit

All interested firms/consultants are invited to attend a **site visit** to better understand the scope, existing conditions, and project requirements.

- Date: **25th May 2026**
- Time: 10:00am
- Location: CCBRT Hospital, Dar es Salaam
- Entry Point: Gate #5

Important Notes:

- Attendance is **mandatory**
- Firms should confirm attendance in advance via email: **admin@ccbtr.org**
- A register will be taken during the visit
- Clarifications may be issued after the visit to all participants

8. Submission Requirements

Interested parties should submit:

- Company profile
- Relevant project experience
- Technical approach and methodology
- Proposed team and qualifications
- Work plan and timeline
- Financial proposal

9. Submission Deadline

All EOIs must be submitted by **1st June 2026** to: **admin@ccbtr.org**