

MUNYAMUGISHA COMMUNITY MEDICAL CENTRE TO BECOME MUNYAMUGISHA COMMUNITY HOSPITAL

ARRANGEMENT OF THE HOSPITAL

MUNYAMUGISHA COMMUNITY MEDICAL CENTRE (MCMC)

Proposed Upgrade from a community Health Centre to General Hospital – 88 Beds + 6 NICU Incubators

Location: Nshozi Cell, Mazinga Ward, Bushenyi-Ishaka Municipality, Bushenyi District

1. EXECUTIVE SUMMARY

The Project proposes phased upgrading of existing two single-storey structures (Building A & B) to two-storey and construction of one new two-storey maternity block (Building C – 16m x 15m, 240m² footprint) to achieve an 88-bed General Hospital capacity. The design achieves Uganda Ministry of Health Infrastructure Standards for General Hospitals (2022) while optimizing the constrained site through vertical expansion, saving approximately UGX 800M in demolition and reconstruction costs.

2. SITE ORGANIZATION PRINCIPLE – Road Nyamiko and Rwenjeru at North

- Northern Boundary (Public Zone): Nyamiko-Rwenjeru Tarmac Road – Main public access. Entrance gate, public parking 16 bays, access loop & drop-off.
- Central Clinical Zone: Building A (Admin & OPD) and Building B (Clinical & Laboratory) positioned below the road to form primary clinical frontage. Central courtyard designed as Healing Garden with seating area – serves as fire assembly point and therapeutic landscape.
- Central Private Zone: Building C (Maternity Block) centrally located south of Buildings A & B for patient privacy, noise and dust mitigation.
- Southern Downwind Zone (Service Zone): Mortuary, Powerhouse, Water Storage & Medical Waste Holding – located at southernmost downwind area, screened by landscaped buffer/tree screen, with separate service access. Compliant with MoH Environmental Health requirement: Mortuary >50m from clinical areas.

Connectivity: Continuous 2.5m wide covered walkways (U-shape connection) providing all-weather protected circulation for patients on trolleys, staff, and persons with disabilities, compliant with universal access.

3. SCHEDULE OF ACCOMMODATION – BUILDING WISE

BUILDING A – ADMIN & OUTPATIENT / MEDICAL WARD – 48 Beds

Existing structure to be retained, strengthened with reinforced concrete columns, beams, and foundation underpinning subject to structural assessment.

- **Ground Floor (Outer Zone – OPD):** Reception, Admissions, Medical Records, Pharmacy, 2 No. Consultation Rooms (10m² each), Triage Area (12m²), OPD Laboratory, Dental Clinic, Ophthalmology Clinic, Injection Room, Staff Office.

- **First Floor (Inner Zone – Medical Wards):** Female Medical Ward 12 beds + Male Medical Ward 12 beds = 24 beds. Wards completely separated with independent access. Central Nurse Station positioned to permit visual observation of both wards. Bed spacing: 2400mm centre-to-centre, 900mm clear between beds, 600mm from wall (MoH compliant). Support: Treatment Room 12m², Clean Utility 10m², Sluice Room (Dirty Utility) 8m², Linen Store 10m². Sanitation: 3 No. WCs + 1 No. Shower per gender wing (1:8 ratio) + 1 PWD WC.

- **Second Floor:** Repeat of First Floor = 24 beds. Total Building A = 48 Medical Beds.

BUILDING B – CLINICAL & LABORATORY / SURGICAL WARD – 40 Beds

Same structural upgrade principle as Building A.

- Ground Floor: Treatment Rooms, Main Laboratory, Diagnostic Laboratory, Staff Room, Supplies Store.

- **First Floor:** Female Surgical Ward 10 beds + Male Surgical Ward 10 beds = 20 beds. Central Nurse Station. Theatre Preparation Room, Sterilization Room adjacent to future theatre link in Building C. Same MoH bed spacing and sanitation standards as Building A.

- **Second Floor:** Repeat of First Floor = 20 beds. Total Building B = 40 Surgical Beds.

BUILDING C – MATERNITY BLOCK – NEW BUILD – 16m x 15m – G+1 – 16 Beds + 6 NICU + NCD

This is the only new build structure, designed as load-bearing with future vertical expansion for theatre.

Maternity Reception, Antenatal Care Unit 32m² (20-40m² MoH range), Counselling Room 10m², In- **Ground Floor:** injection Room, Covered service walkway connection.

- First Floor – Maternity Ward (MoH 8-Bed Ward + Postnatal 8-Bed Ward): Waiting Area for Mothers 10m² minimum with direct access from covered walkway, Labour/Delivery Room (remote from entrance for asepsis) 24m², Neonatal Intensive Care Unit (NICU) 6 incubators – separate but immediately accessible from delivery room, Postnatal Ward 8 beds, Nurse Station with visual surveillance, Clean Utility 8m², Sluice 8m², Linen Store 10m². Future provision for Operating Theatre and Doctors On-Call Room on this floor as required by MoH for proximity to maternity and emergency.

- Second Floor – NCD Clinic & Future Expansion: Non-Communicable Diseases Clinic – first community-based NCD clinic in Bushenyi District, providing hypertension/diabetes monthly refills without travel to town. Accommodation: 3 Consultation Rooms, Pharmacy/Dispensary, Counselling Room, Medical Records, Waiting Area 20 seats, Male/Female/PWD WCs.

Access Solution: 2.5m wide reinforced concrete ramp, gradient 1:12, length 35m, connecting from ground-level main entrance walkway directly to second floor, ensuring mothers in

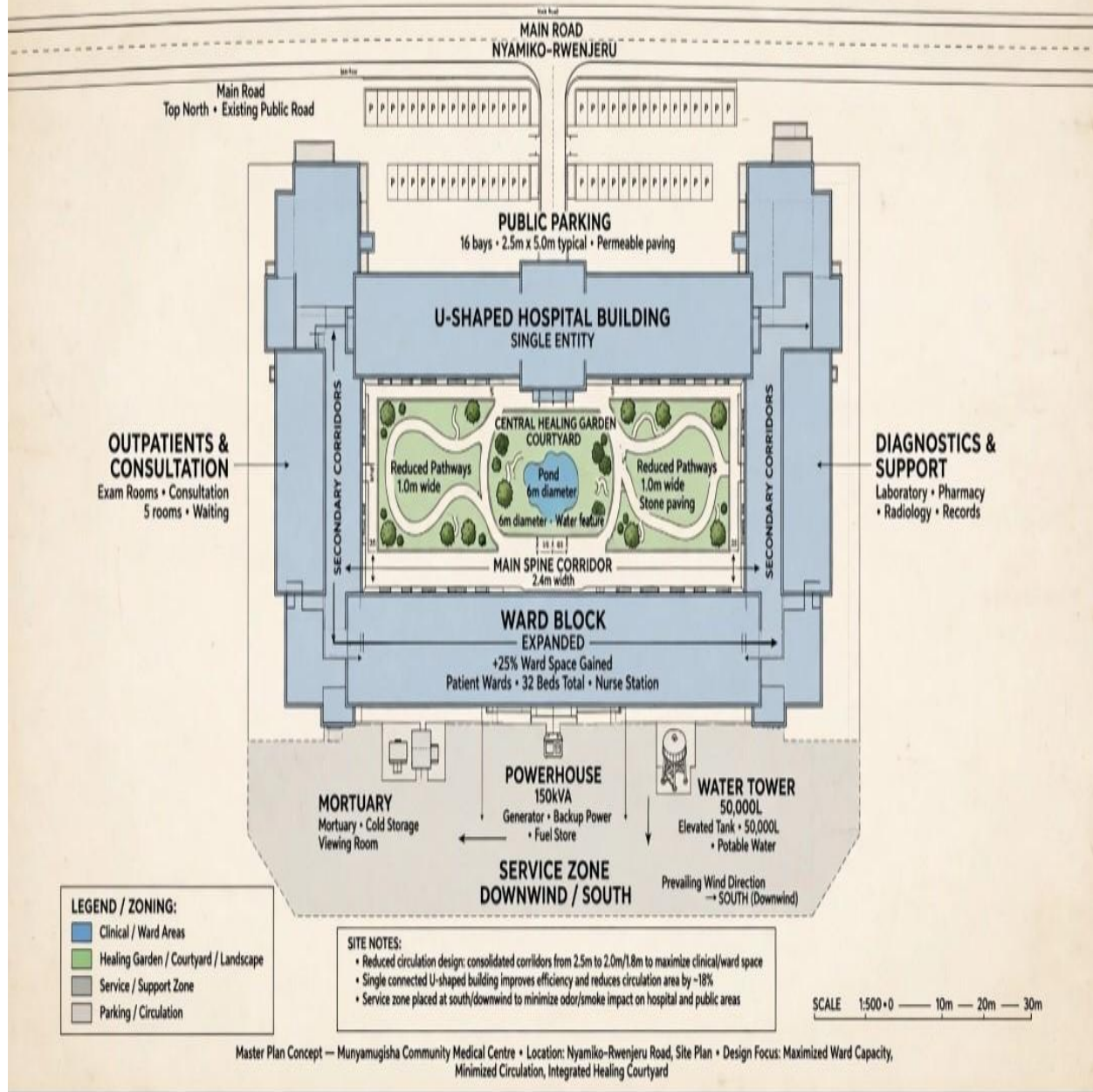
maternity ward do not mix with public NCD patients (infection control). All signage clearly labeled for public navigation.

***Total Bed Capacity:** * Building A 48 + Building B 40 + Building C 16 Maternity = 88 Beds + 6 NICU Incubators.



— MUNYAMUGISHA COMMUNITY MEDICAL CENTRE —

Conceptual Zoning Plan — Not Certified Blueprint • Reduced Circulation Layout • Effective U-Shaped Building • Expanded Ward Capacity



MUNYAMUGISHA COMMUNITY MEDICAL CENTRE

— CONCEPTUAL DESIGN PRESENTATION

ONE COMPLEX U-SHAPED BUILDING — THREE LEVEL FLOOR PLANS | CONCEPTUAL ZONING



ROAD NYAMIKO-RWENJERU



SERVICE ZONE ▲ SOUTH / DOWNWIND ▲ SPECIALTY & SUPPORT SERVICES

MORTUARY
60m²

POWERHOUSE
150kVA • 40m²

WATER TOWER
50,000L • 30m²

Located downwind to south for ventilation and safety separation • Service access from south

ZONING LEGEND

Public/Entry & Circulation	Maternal & Neonatal Care
Clinical & Outpatient	Services/MEP
Inpatient Wards	
Maternal & Neonatal Care	

DESIGN NOTES

- U-shaped building optimizes natural ventilation & daylight to Healing Courtyard
- Clear separation: Public/Clinical (GF) → Inpatient/Maternity (L1) → Specialty/Support (L2)
- Service zone isolated to south/downwind per health facility standards
- 2.4m main spine corridor for primary circulation, 2.0m secondary for room access

TOTAL AREAS

Ground Floor: 317 m²
First Floor: 480 m²
Second Floor: 444 m²
TOTAL BUILT AREA: 1,241 m²
Site Parking: 200 m² (16 Bays)



4. SUPPORT SERVICES – MO H COMPLIANCE

- Mortuary: Single storey, isolated, downwind, fenced, ventilated. Accommodation: Cold Storage Body Holding, Autopsy Room, Viewing Room. Separate service road access, not shared with visitors.
- Powerhouse: Generator House 150kVA (corrected from 100kVA) diesel generator + Electrical Room + Fuel Store (110% bundled) + Solar PV ready for hybrid system.
- Water Storage: Elevated water tank 50,000L capacity (5 x 10,000L tanks) + Water Treatment & Pump House + Rainwater harvesting. Provides 72-hour reserve at 150L/bed/day.
- Medical Waste Management: Secure enclosure at south-west, comprising Medical Waste Holding, Incinerator, Placenta Pit, Ash Pit, fenced and access-controlled.

5. COMPLIANCE CHECKLIST – UGANDA MOH GENERAL HOSPITAL STANDARDS

- Bed spacing 2400mm c/c, 900mm clear, 600mm wall clearance – Achieved
- 2.5m wide covered corridors for trolley movement – Achieved
- 1 WC per 8 patients per gender, plus PWD WC, plus staff WCs – Achieved
- Mortuary >50m downwind with separate access – Achieved
- 50,000L water reserve, 150kVA backup power – Achieved

- Clean/Dirty flow separation, Outer/Inner zoning – Achieved
- Universal access ramps 1:12, 2 exits per floor, fire assembly in courtyard – Achieved
- 1 Parking bay per 25 beds for 100-bed hospital = 32 bays – Achieved (16 public + 8 bicycle + 8 staff/service)

6. FIVE-YEAR PHASING – COST OPTIMIZED

- Year 1: Structural integrity assessment of Buildings A & B. Strengthening with RC columns/beams/foundation underpinning. Construction of service zone (water, power, waste). Construction of 2.5m covered walkway substructure.
- Year 2: Completion of first floor slabs for Buildings A & B (44 beds operational). Completion of covered walkways.
- Year 2-3: Construction of new Building C (Ground + First Floor) – Maternity operational (16 beds).
- Year 3-4: Construction of Mortuary per MoH isolation standards, procurement of medical equipment.
- Year 4-5: Construction of second floors for Buildings A, B, C (attainment of 88-bed capacity), NCD Clinic fit-out, landscaping of healing garden, perimeter fencing, signage. Application to DHO for General Hospital license (catchment 500,000 population).

Contact: Munyamugisha Community Medical Centre Secretariat, Bushenyi-Ishaka Municipality, Nyamiko-Rwenjeru Road | Tel: +256772443572| Email: | Website:[Insert]

Documents Available: Site Master Plan, Ground/First/Second Floor Plans, BOQs, District Endorsement Letters (Bushenyi, Sheema, Rubirizi, Buhweju, Mitooma).

Greater Ankole has waited long enough. The land is secured. The plan is approved. The community has contributed. Join us to build the hospital where our new killers finally meet their match.