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FOUNDATION  
AHF**

*Hands Up and not Hand Out*

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**AJABU HEALTHCARE FACILITY IMPROVEMENT PROJECT  
IN  
COLLABORATION WITH AFRICAN HEALTH FOUNDATION INC  
HOMABAY TOWN**

## **Background**

**Geographical area:** Homabay County is one of the forty-seven Counties in Kenya - number 43 in Kenya. It is one of the largest counties in Western Region covering an area of 3,154.7 km<sup>2</sup> with a population of 1,131,950 persons, of which 539,560 are males, 592,367 females and 23 intersex persons (Kenya National Census 2019). Homabay has 262,036 households with an average of 4.3 people per household. The county has a population density of 359 people per square kilometer. Homa Bay County has eight sub counties and 40 wards.

**Socio-economic situation:** Poverty levels are rife in Homabay County standing at 77.9% against an average of 52% in Kenya. The economic mainstay of residents is majorly fishing and small-scale agriculture. According to Kenya Institute for Public Policy Research and Analysis the sectors driving growth in economic activity in Homabay are Manufacturing (0.5%), Agriculture (60%) and Services (36%). With an absolute poverty level of 77.49%, most households are struggling to meet daily livelihoods.

**Healthcare Situation:** According to Kenya Population and Housing Census (KPHC 2019) mortality data for Homabay County: Infant mortality rate 57.5/1000, Under five mortality rate 92.9/1000, Maternal mortality ratio 516/100000 live births. These figures are generally higher than the national averages (35.5/1000, 52/1000 and 355/100000) respectively. Though these numbers have dropped per the KPHC 2024, Infant mortality rate 42/1000, under five years 61/1000, and Maternal mortality rate 516/100000, the Homabay indicators are still higher than the national average.

Homabay County has a total of 304 facilities out of which 202 are GOK, 74 are private and 28 are faith based. Among the GoK facilities 134 are level two, 54 level 3 and 14 level 4. The county has no

level 5 facility. According to National SYNDEMIC Disease Control Council (NSDCC), HIV prevalence in Homa Bay is nearly 4.5 times higher than the national prevalence at 26.0%. National Institutes of Health (NIH) found that in Homabay County, healthcare utilization rate was 77% for the sick while 44% and 18% who don't seek care are hindered by cost and distance respectively. These statistics make a compelling case for strengthening health care provision.

#### CURRENT DISEASE PREVALENCE 2024 HOMABAY REPORT

INDICATOR	COUNTY RATE	NATIONAL RATE	SOURCE
Skilled delivery	69.8%	70.2%	KHIS 2024
Immunization coverage	73.9%	77.8%	KHIS 2024
Maternal mortality rate	516/100000	355/100000	KNBS 2019
Infant mortality	42/1000	32/1000	KDHS 2022
Under five mortality	61/1000	43/1000	KDHS 2022
HIV prevalence	10.6%	4.1%	HIV Estimates 2024
Stunting	12.5%	18%	KDHS 2022
Teenage pregnancy	23%	15%	KDHS 2022
Life Expectancy	M-50.5, F-60.2	M-60.6, F-66.5	KNBS 2022

#### Problems to be solved

Health infrastructure contributes significantly in the provision of services. Accurate diagnostics depend on properly serviced, carefully calibrated machines. To carry out evidence-based practice, therapeutic or surgical procedures, a facility needs quality instruments that are properly managed and sterilized. This is essential, not only for the provision of good care, but also for the prevention of infection and side effects like post-operative hemorrhages and respiratory failure. Quality medical equipment ensures a strong and consistent workflow. Delays in essential procedures can have serious consequences. A machine that breaks down or works inaccurately can be a matter of life and death. Well-maintained machines and instruments also streamline hospital functioning and improve care and productivity.

It is in this wake that the government of Kenya has made several concerted efforts towards equipping government hospitals. In 2015 for example, it initiated the Managed Equipment Services (MES) Project. This project sort to support devolution of equitable, accessible, affordable and quality health care, through equipping 2 hospitals in each County and 4 National Referral hospitals with outsourced specialized state-of-the-art medical equipment. The aim of the project was to provide Kenyans with

excellent uninterrupted health services regardless of their location in the country. Unfortunately, this project, just like several others, was marred with a lot of challenges hindering its full implementation and leaving many County government hospitals including Homabay in dire need of equipment.

In Homabay County, despite hospitals having ambulances, majority of these ambulances are not operational. In addition, 85.5% of patients do not get all the services when they need them and 76.9% have been referred elsewhere because the service, they needed was not available. Further excavating the situation is the fact that there are no Biometrics like, X-ray, Ultrasound, Magnetic Resonance Imaging (MRI), and Electrocardiogram (ECG/EKG) diagnostics in Homabay health facilities.

This results in 82.3% of the patients in Homabay failing to seek health care because of cost. Nevertheless, 58.1% of patients take between 6-8 long hours to get to the hospitals resulting in patients failing to seek health care because of the distance. Therefore, availability of medical equipment directly influences availability of service, patient care and satisfaction. When a patient is referred elsewhere for treatment due to lack of the required equipment, or when health workers cannot respond to emergency cases due to lack of operational ambulances, the public is denied services which explain the role of health infrastructure in the delivery of services. To address the above challenges, we propose to increase access to healthcare services and diagnostic machines in healthcare facilities through equipment of Ajabu Healthcare Facility.

Due to lack of diagnostics, **pregnant women** are not properly - clinically assessed while pregnant and during delivery. There is lack of evidence-based practice. Thus, complications that could be diagnosed and treated to save the baby and mother are not achieved. Homabay infant mortality is 42/1000 as compared to national rate of 32/1000, and maternal mortality is 516/100000 compared to national 355/100000. Homabay healthcare diagnostic provision is lacking and needs attention to reduce the infant, and maternal mortality.

Ajabu healthcare services aim to be a **vaccination center** in collaboration with UNICEF, local and international NGOs, the Kenyan Government and the Community Health Workers to ensure community education, access, and compliance with vaccinations.

Children's vaccine stockouts, caregiver knowledge, missed opportunities and access contribute to under-vaccination in children compliance in Homabay. Studies show that Homabay has one of the lowest

vaccination coverages in Kenya. Fully immunized rates are around **73.5%**, below Kenya's target and national average of 90-95% indicating significant gaps, particularly in completing multi-dose vaccines like Pentavalent and Measles, BCG.

HIV PrEP vaccination is missing in Homabay County, yet Homabay is consistently showing significantly higher HIV prevalence than the national average, often cited as the highest in the country, with figures around **25-26%** in recent years compared to a national average that has fluctuated but is much lower (e.g., 3.7% in 2022), meaning Homabay's rate can be **nearly 4 to 7 times greater** than the national figure, making it a key focus for HIV interventions.

Ajabu Health Care Services will specialize as **an Infusion center** to play a critical role in healthcare delivery in Homa Bay, by providing localized, specialized, and cost-effective outpatient treatment for daily hydration, multiple administration of IV antibiotic, chronic and complex diseases, such as cancer and HIV/AIDS. The center will be crucial in tackling the region's high disease burden and improving health outcomes for residents of Homa Bay County.

The infusion Services will address significant barriers like distance, and cost, which previously required patients to travel long distances for care. Improved Access to Cancer Care through chemotherapy and other infusion treatments, which is a major barrier for the 68% of the population living below the poverty line.

The center will increase the Decentralization of Chronic Disease Management, this will allow patients to receive essential treatments closer to their homes, reducing nosocomial infections, non-compliance with treatment, travel time and costs.

Ajabu's Specialized and Efficient Services will be equipped to provide specialized care, including oncology services, with trained staff ensuring safe administration of treatments.

Ajabu outpatient infusion center will provide a more comfortable, calm environment compared to inpatient hospital stays, which will improve the patient experience, outcome and support mental well-being during treatment

By offering treatments on an outpatient basis, patients will avoid high inpatient, and often more expensive, hospital care, thus Reducing patients Financial Burden

TOP 10 CAUSES OF MORBIDITY (FY24/25)

<b>DATA NAME</b>	<b>HOMABAY COUNTY</b>
Confirmed Malaria (only positive cases)	290,388

Disease of the skin	50,292
Hypertension	34,547
Arthritis, Joint pains etc	19,339
Diarrhea	18,784
Eye Infections	15,975
Pneumonia	12,922
Diabetes	12,233
Asthma	10,859
Dental Disorder	10,186

## **Ajabu Healthcare Facility**

Ajabu Health Services Limited was established with a mission to bridge the healthcare gap in Homabay County. Recognizing the need for accessible, reliable and advanced medical diagnostic services, Ajabu is dedicated to improving the health and well-being of our community through comprehensive diagnostic and healthcare solutions. The goal is to equip the facility with state-of-the-art technology and be staffed by highly trained professionals committed to providing exceptional care.

**Vision:** To become the leading healthcare provider in Homabay County by offering advanced diagnostic services and promoting overall health and well-being within the community.

**Mission:** To provide comprehensive, high-quality diagnostic and healthcare services to meet the critical needs of the Homabay County community, ensuring accessible, accurate and timely medical care.

**Motto:** Your Health First, health for wealth.

In this project, AJABU will offer extensive and comprehensive healthcare solutions through diagnosis and treatment. Diagnosis; - Ultra Sound, X-Ray, ECG, Doppler Studies, A1C, Laboratory, MIR

## **African Health Foundation**

African Health Foundation (AHF) is a non-governmental organization that operates in Kenya and United States of America – Massachusetts. The organization is driven by public health disease prevention and medical evidence-based practice and community empowerment goals. To enhance community-based solutions with focus on primary healthcare, community health and empowerment. AHF has supported youth education, youth commercial empowerment, community nutrition, women empowerment, tree planting, community counselling, mental health, community water projects and widows housing and empowerment.

In this project, AHF will offer distinctive health promotion, disease prevention, community

empowerment and prowess in linkage, connecting the vulnerable to healthcare services.

## **Objective**

The purpose of this project proposal is to outline a comprehensive plan for improving healthcare facility at Ajabu health services to enhance the quality and accessibility of healthcare services. With the growing population in Homabay County and increasing healthcare needs, it is crucial to equip existing facilities to cater to the evolving demands of the community. This project aims to address the deficiencies in equipment and technology at Ajabu healthcare facility, ultimately leading to improved patient care and outcomes within Homabay County.

### **Specific Objectives:**

The specific objectives of this project are as follows:

- **Upgrade existing healthcare facility:** Assess the current state of Ajabu health facility and identify areas within it that have inadequate equipment
- **Purchase New Health Care Equipment:** Develop plans for purchasing new diagnostic equipment to meet the growing demand.
- **Enhance technology and equipment:** Evaluate the technological needs of the facility, including diagnostic equipment and other innovative technologies that can improve efficiency and patient care.
- **Improve patient experience:** Create a patient-centered environment by improving equipment and ensuring accessibility for all medical services.
- **Strengthen infection control measures:** Upgrade the facility to meet the latest infection prevention and control standards and to prevent the spread of infectious diseases.
- **Introduce tele-health practice to reach the inner land community** and support the medical practitioners by the use of OhanaOne smart glasses in patient diagnosis and treatment.
- **Improve children, and HIV prevention vaccination**

### **Project Activities:**

To achieve the objectives, the following activities will be undertaken:

- **Conduct a comprehensive needs assessment:** Collaborate with Ajabu healthcare Management, African Health Foundation and other stakeholders to assess and identify gaps in equipment, technology, and structural building (building construction is on-going).
- **Procure necessary resources:** Based on the assessment of needs, identify the required medical

equipment and technology systems and establish a procurement plan to ensure timely availability and cost-effective sourcing.

- **Implement equipment installation:** Execute the purchase and installation plans, adhering to local regulations and quality standards, while ensuring minimal disruption to ongoing healthcare services.
- **Upgrade technology and equipment:** Collaborate with healthcare technology providers and equipment manufacturers to procure and install medical devices, software and other necessary technological solutions.
- **Improve patient experience:** Incorporate patient feedback mechanisms and ensure the facility and its services are accessible to all individuals, through in-person and telemedicine visits.
- **Train healthcare staff:** Conduct training programs to educate Ajabu’s healthcare personnel on using new technology and equipment, and empathetic patient care.

**Budget and Funding:** The total budget for this project is estimated as below;

**EQUIPMENT**

No.	Description	Quantity	Unit Price	Total Amount
1	Hematology 3 part (Beacon)	1	572,210.00	572,210.00
2	Biochemistry Analyzer ( Beacon 200)	1	1,415,512.00	1,415,512.00
3	Microscope (OLYMPUS CX23 MICROSCOPE)	1	181,400.00	181,400.00
4	Oven ( HOT AIR OVEN DIGISTEM)	1	221,940.00	221,940.00
5	Incubator (Lab Incubator Digi system)	1	211,800.00	211,800.00
6	Centrifuge (Digital Micro centrifuge)	1	286,740.00	286,740.00
7	Roller Mixer ( DIGISYSTEM)	1	81,540.00	81,540.00
8	Bonavera Lyt Plus - Electrolyte Analyzer	1	350,000.00	350,000.00
9	Safety cabinet/fume chamber	1	670,000.00	670,000.00
10	I - Chroma II ,Immunoassay Analyzer	1	300,000.00	300,000.00
11	HemoCue Hb 301(Plus cuvettes)	1	162,246.50	162,246.50
12	Coagulation Machine (Seroclote	1	185,000.00	185,000.00
13	E.C.G (AT-102 G2)	1	1,299,648.00	1,299,648.00
14	Ultra Sound (Echocardiography performed with E CUBE)	1	5,100,000.00	5,100,000.00

15	X- Ray Digital (Moviplan ic Latest Generation x-ray system)	1	14,990,200.00	14,990,200.00
<b>Sub-Total (KES)</b>				<b>26,028,236.50</b>
<b>VAT Amount at 16%</b>				<b>4,164,517.84</b>
<b>Total Amount Inclusive of VAT (KES)</b>				<b>30,192,754.34</b>

#### Staff

No.	Cadre/Position	Gross Pay/Month	Annual Gross Pay
1	RCO/Incharge	50,000.00	600,000.00
2	Nurse	40,000.00	480,000.00
3	Administrator	30,000.00	360,000.00
4	Accountant	40,000.00	480,000.00
5	PHO-BioSafety	15,000.00	180,000.00
6	Cleaner	15,000.00	180,000.00
7	Receptionist	20,000.00	240,000.00
8	HRIO	20,000.00	240,000.00
9	Lab Tech	15,000.00	180,000.00
10	Radiologist	35,000.00	420,000.00
	<b>TOTAL</b>	<b>280,000.00</b>	<b>3,360,000.00</b>

#### Timeline:

The proposed timeline for this project is as follows:

	ACTIVITY	TIMELINE/MONTHS	EVALUATION
1	Needs assessment and planning	1-2	Continuous
2	Resource procurement	3-7	Continuous
3	Equipment installation: Months	8-9	Continuous
4	Upgrade technology and equipment	11-13	Continuous
5	Patient experience improvements	14-17	Continuous
6	Staff training	16-18	Continuous

**Evaluation and Monitoring:** Regular monitoring and evaluation will be conducted throughout the

project implementation to assess the progress, identify challenges, and make necessary adjustments. Key performance indicators (KPIs) will be defined to measure the impact of the project, including improved patient satisfaction, reduced waiting times, enhanced infection control outcomes, and increased access to healthcare services.

**Conclusion:** The proposed Ajabu Healthcare Facilities Improvement project aims to address the pressing needs within Homabay community by enhancing technology and equipment, improving the patient experience, and strengthening infection control measures. Through this comprehensive approach, we aim to provide high-quality healthcare services that meet the evolving needs of the population.

We invite you as a stakeholder to support and collaborate on the Ajabu healthcare-African Health Foundation initiative to ensure the successful implementation of the project, lifesaving diagnostic – evidence-based practice and the long-term improvement and sustainability of the healthcare facility.