



HEALTH FOR ALL

Oé-Cusse | Timor-Leste

Health for All



Health for All



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**General Interior View
(Closed Folding Door)
Separation of Office Zone from
Pharmacy Zone**



**Access Door to Outside
(1 of 2)
(Pharmacy Zone)**

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Audiometric Booth



**Audiometric Booth
Interior Details**



**Audiometric Booth
Exterior Details**

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Examination Table with Mattress and Lower Storage with 2 drawer units



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Folding Table with External Support



Work desk



Workbench with Washbasin

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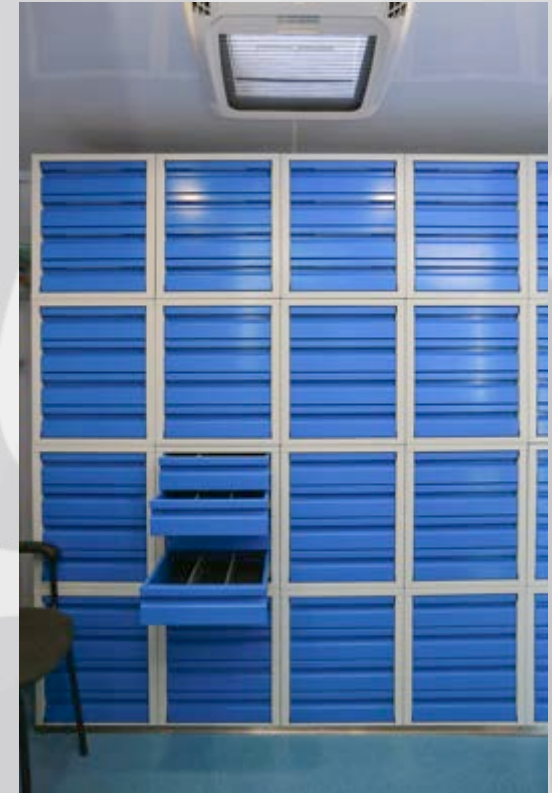
General View of the Pharmacy



Skylight Details



Refrigerator Details



Pharma-org Drawers Column

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Awning



Access Ladder

Strategic Framework

✓ **MOBILE HEALTHCARE UNITS** are vehicles that will strategically enable healthcare to be brought closer to the people, allowing health screening and promoting awareness-raising and prevention actions regarding some of the pathologies that most affect the populations far from the urban centres.

✓ The **Health for Everyone** project is a low-cost solution for the local service of the health screening programme and awareness-raising or prevention actions regarding some of the pathologies that most affect the Timorese, which combines the supply of free quality-controlled medicines to populations where facilities for this purpose do not yet exist, in particular in remote locations, or where the available establishments do not provide guarantees as to the origin of the medicinal products or their proper storage, or even the qualifications of the staff operating them.

Definition

Following this principle, a mobile “building” was designed that in addition to ensuring the two key aspects - **CONSULTATION AND PHARMACY** - enables accessibility to remote sites.

Users will have access to:

- Routine Medical Consultations (General Practice)
- Routine Medical Examinations adapted to the circumstances of the region, including:
 - Vision Screening with fixed equipment for visual acuity, as well as a refraction unit; slit lamp; optotypes; test lenses case; trial frame (lenses) and auto-refractometer.
 - Hearing screening with equipment and audiometric booth.
 - Urine tests with own equipment.
 - Rapid tests with a small amount of blood for: Alcohol, Cholesterol, Glucose, Haemoglobin, Haematocrits, Triglycerides, Lactate and Total Cholesterol.

Definition

- Rapid Tests for: Malaria (4 strains), Dengue Fever, Hepatitis A/B/C, Mononucleosis, Typhoid, Tuberculosis, Pregnancy, HCG.
- It may also be used in prevention and awareness-raising programmes among the population, such as: Immunisation Plans, General Hepatitis Screening, Arterial Hypertension Screening, Hearing Screening, Vision Screening, and others.
- Access to medicines for the primary pathologies, considered necessary for such a solution.

Notes:

1 - The MOBILE HEALTHCARE UNIT includes a refrigerator, which is necessary for the preservation of medicines;

2 - The conditions of hygiene, safety and well being are assured for the users and for the health professionals with a lavatory and an Air Conditioning System;

Working Model

The **MOBILE HEALTHCARE UNIT** will travel weekly and on fixed days to all villages to serve the population, with the aim of:

- Providing ongoing basic healthcare,
- Managing the therapeutic treatment,
- General screenings for body mass index, blood pressure, diabetes, cholesterol, sight and hearing tests,
- General medical testing for the screening of diseases, such as HIV, malaria, hepatitis, etc.

Every three months, a new screening, immunisation and awareness-raising campaign will be implemented about a common pathology found within the population, with a special focus on children and the elderly.

A “closer pharmacy” will also be installed in the vehicle which will provide vast improvements in the living conditions of the populations. It will swiftly and inexpensively enable and ensure the regular existence of essential medicines at the primary healthcare level, facilitate storage, distribution and the use of medicines at this level and thereby improve the supply of medicines to the population.

Working Model

In order for health professionals assigned to the **MOBILE HEALTHCARE UNITS** to perform all of their duties in an exemplary manner, both technically and on a human level, they shall be provided with specific training, encompassed within an overall programme based on two different models: the face-to-face model and the e-learning model.

Basic courses will be taught within the respective areas of activity so that these professionals meet all the conditions to provide all users with a credible and effective service, both in the diagnostic phase and in the treatment phase, always associated with the social component where the awareness-raising for the different realities of the population will be the key principle.

All activities of the **MOBILE HEALTHCARE UNITS** should be supported by a compact - stationary - building, which must be used for the replacement of the different types of consumables and medicines, as well as the base of operations and for the training of the healthcare professionals allocated to the vehicles.

TECHNICAL DESCRIPTION



Description of Equipment

Carried by a vehicle from brands that are internationally recognised within the automotive industry for their reliability and with four-wheel drive (4x4) in order to guarantee the stability and safety of its occupants during journeys, but also accessibility to distant places where most vehicles cannot reach, the **MOBILE HEALTHCARE UNIT** consists of:

STRUCTURE	
1	Mixed frame (closed), built with polyurethane sandwich panels, coated with polyester resin, reinforced, fabric and fibreglass, fully rot-proof;
2	Single-leaf doors on the sides, provided with hinges, permitting an opening of 180°;
2	Door lock;
1	Fixed partition with folding door;
1	Fixed partition for compartmentalisation (sanitary installation);
1	Folding door (sanitary installation);
2	Acrylic skylights;
1	Floor prepared to receive PVC flooring;
1	Security system on the outer doors, when open;

Description of Equipment

STRUCTURE

1	Exterior top and side lighting;
2	Stairs to access the interior;
1	Tank with connection to the clean water network;
1	External water supply cap;
1	Pumps for connection to the water tank;
1	Waste water tank with connection to various devices and discharge valve;
1	Aluminium profiles;
1	Rear stops;

Description of Equipment

STRUCTURE

1	Access door to waste water container (chemical toilet);
1	Chemical toilet;
1	Washbasin;
1	Paper holder;
1	Mirror;

PREVENTION/ACCESSIBILITY

3	2 kg chemical powder extinguisher with a stand
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Description of Equipment

AIR-CONDITIONING

2	Exterior air-conditioning 220 V/5200 btu for 20 m ³ , hot and cold;
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ELECTRICAL INSTALLATION

1	2.8 kVA sound insulated generator;
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1	220 V electrical installation with 220 V sockets, electric panel with protection circuit breakers;
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10	220 V interior socket;
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1	220 V socket with outer protective cap for public mains supply;
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1	220 V extension of 2x1.5 with earth in unroller with 25m and protection fuse;
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Description of Equipment

INTERIOR LIGHTING

6	220 V fluorescent lamp placed on the ceiling;
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AWNING

1	Outer side awning with 4.06;
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MISCELLANEOUS

1	Non-slip PVC flooring;
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1	Spotlights for external work (pair);
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Description of Equipment

DOCTOR'S OFFICE

1	Examination table with mattress and lower storage with 2 drawer units;
1	Vertical unit with shelves/cabinets;
1	Workbench with washbasin;
1	Work desk;
3	Desk chair;
1	Container for solid waste;
1	Liquid soap dispenser + refill (1);
1	Hand paper dispenser + refill (1);
1	Glove box holder;

Description of Equipment

1	AUDIOMETRIC BOOTH
	External dimensions 80x90x205;
	Closing system: magnetic;
	Window: reinforced glass;
	Ventilation system;
	Power supply: 220 V - 50/60 hz - 50 w interior lamp;
	Connect board: double-sided, with six stereo connectors;
	Folding table with external support;

Description of Equipment

1	HEARING SCREENING WITH A PRINTER
	Peltor headphones;
	Patient response remote;
	PC connection cable + software;
	User manual;
	Calculation of indices;
	Comparison of test curves;
	Printing of examinations;
	Automatic examinations \pm 5 minutes;
	Frequency and decibels guidance;

Description of Equipment

1	URIAN 1001 READING EQUIPMENT
	PC connection - software included;
	Easy to use, LCD display;
	Automatic and rapid treatment throughout the test (30 ~ 60 seconds);
	Urinalysis tests (strips) acid-base balance reading 10 parameters;
	Pack of 100 units;

Description of Equipment

1	VARIO II LABORATORY DP 310 ANALYSIS EQUIPMENT
	Compact and portable size: 195x100x45 mm;
	Easy to use;
	10 biochemical parameters;
	Small amount of blood (10 µl);
	Wavelengths: 520/546 nm;
	Interface: rs232c;
	Power supply: mains or battery;

Description of Equipment

1 VARIO II LABORATORY DP 310 ANALYSIS EQUIPMENT (CONT.)

PARAMETERS:

Alcohol	Triglycerides
Total cholesterol	Lactate
Glucose	Lactate - rapid
Erythrocytes	Total cholesterol (40 units)
Haemoglobin	Glucose (40 units)
Haemoglobin - SLS	Triglycerides (40 units)
Haematocrit	

Description of Equipment

1	RAPID TESTS FOR MALARIA, DENGUE FEVER, HEPATITIS A, B, C	
	Malaria 4 strains (25 units)	Mononucleosis (20 units)
	Dengue fever (25 units)	Typhoid (30 units)
	Hepatitis A (30 units)	Tuberculosis (30 units)
	Hepatitis B (25 units)	Pregnancy test
	Hepatitis C (25 units)	HCG test (50 reagent strips)

Description of Equipment

1	VISION SCREENINGS
	Fiso rondo refraction unit;
	Slit lamp, i3o 10x 16x 25x kh;
	Ochio optotypes (monitor + tablet + wifi);
	Universal i3o lenses trial case;
	Universal i3o trial frames;
	Auto-refractometer / potec prk5000 keratometer;

Description of Equipment

PHARMACY OFFICE

5	Pharma-org drawer column, with 16 drawers 140 mm high per column. The bottoms of the upper 4 drawers are in acrylic and the rest in melamine. Useful depth of 500 mm and mounting depth of 600 mm. Alphabet included. Height 2,200 mm. 417 mm column width. Metallic fronts and melamine sides;
1	Md100 refrigerator with measurements of 540x510x860 mm / 2 md100 refrigerators with measurements of 540x510x860 mm with 2 shelves, glass door and digital display, 75 L;
3	Pharmacy symbol on the top and sides of the vehicle;

TECHNOLOGICAL DESCRIPTION

Working Model

With the objective of a more efficient management of the Mobile Healthcare Units, and in line with the technological solution for Pharmacies and Warehouses, it is possible to develop a solution that is fully adapted to the reality and concept inherent in the **MOBILE HEALTHCARE UNIT**.

With the implementation of this solution, it is possible to have effective computer management of all mobile healthcare units that, by centralising information on a single server (central server), will allow:

- Management of stock, billing and associated costs of each unit.
- Recording the clinical situation of the individual, i.e., recording the examinations performed, and other information that will permit the creation of a clinical history of the individual.
- Extraction of data and credible and regular information about the diagnosis, the state of the health of the population, meaning the ability to carry out statistical analyses - that will enable health plans to be defined for the following years.
- Synchronisation of information over the Internet, by sending sales files that will permit the centralisation of sales and stock information.

Solution Architecture



TELECOMMUNICATIONS OPERATOR



Pharmacy Management Software

This software management was created out of the need to combine a POS terminal with the current management of the business in a simple and practical way (corresponding to the ever-widening needs of today's market).

With this software, is possible to make sales, manage orders to suppliers, control stocks, make inventories, introduce new products, retain and expand your customers. It is no longer an arduous task, all these options being available at a one-touch distance.

Bearing in mind that time is money, in this software we have created a sales menu in which the visual and practical aspects of the sales actions are easy to implement. On the same screen, it is possible to create quick sales items (divided by groups), place discounts on specific products or on a global account, use multiple employees without having to complete any operation, view the total number of items sold without completing the calculation, make mixed payments, issue a receipt or cash sale, cancel incorrectly sold products, accept returns, view current accounts, etc., thus allowing you greater reliability, convenience and speed in attending to your customers.



Pharmacy Management Software

FEATURES:

- ✓ Multiple Users, Multiple Levels of Access
- ✓ Easy Programming of New Items
- ✓ Cash Outflows
- ✓ Stocks
- ✓ Inventories
- ✓ Commissions
- ✓ Client Data Sheets
- ✓ Supplier Data Sheets
- ✓ Orders to Suppliers
- ✓ Warehouse Control
- ✓ Sales Analysis
- ✓ Multiple Listing Formats
- ✓ Returns
- ✓ Windows Operating System

Pharmacy Management Software

DESCRIPTION OF EQUIPMENT

MOBILE PHARMACIES	
1	Lexmark Colour Multifunction Model XC2130 (Copier, Network Printer, Colour Network Scanner and Fax / PC Fax Board);
1	19" Touchscreen Monitor;CPU mini slim mtx 660;Windows 8.1;Multixop TP sales and back office software;Alphanumeric VFD display for client;
1	Thermal receipt printer;
	Barcode reader;
1	Cash drawer;
1	UPS 1000VA;
1	Backup Disk;

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