

TECHNICAL PROPOSAL – AMBULANCE

Vehicle base: Toyota Land Cruiser (LX10)

General principle and building description

Exterior modification

Lights

Red and Blue flashing LED Light bar installed on the front roof of the drivers cabin, including PA system with 100 watts speaker. Siren to have switch in driver compartment Isolating the siren's sound from the cabin, water proof to be installed in the correct place near the front bumper



- *2 red and blue strobe lights on the fender*
- *1loading lights mounted on the rear roof of the vehicle*

Stickers/Branding

- *Red strip line all around the vehicle with width of 15 – 20 cm*
- *Red Crescent and Cross*
- *Ambulance wording on English and Arabic*

Interior modifications

The structure of the compartment cell (flooring, roof, partition, right side, left side) is made of Integral foam sheet white waterproofing which are perfectly suitable for ambulance or any medical environment for its easy cleaning feature and hygiene friendly.

Partition bulk head wall to be made from 18mm Integral foam sheet waterproofing perfectly cut to match the side of the vehicle, it has side beddings to cover side of the material and avoid scratch on the interior upholstery of the drivers cabin. It has a built in windows made of aluminum material frame with sliding clear PLEXI glass materials that can only be open from the driver side.

Flooring to be insulated with high graded marine plywood and then covered with polyurethane vinyl sheets, automotive type vinyl for extra safety and anti slip. It has waterproof ledges (about 5cm) in order to make possible as usual cleaning even if

you are washing with water.

Left side place for medical cabinet as storage for various medical equipment, It has 2 layer, 1 will run along the full left side of the vehicle, the 2nd layer will cover half of the vehicle left side. Left rear side will be the space for the oxygen cylinder and other emergency equipment.

All electrical control panels are fabrication along side of the main medical cabinet. Shelved for small items with sliding windows made of aluminum panel incorporated with a clear acrylic sheet, 2 wall mounted flow meter located and attached at the main cabinet near the patients head for easy access, this is connected on the main oxygen tank.

Right side places a fabricated 3seater attendant **squad bench** with 2points retractable seat belt and it flip up with the use of hydraulic hinges that allows as an additional storage space for split seat, portable oxygen and others. A **doctor seat** is also fabricated attached at the back of the partition wall.

Main hallway where the main stretcher are fixed with secure locking system bolted directly on the floor this is beside the left medical cabinet, with enough space for attendant working area for an immediately attend to the patient medical needs

Finishing and colored coding

Patient Cabin to be white color

Patient Cabin Flooring to be grey color

Rear Upholstery to be as per your choice, with easy clean UPC leather material

Warning sticker

Electrical Installation

All electrical installation is protected with proper insulation, a control board panel is place on the left side of the compartment as a main switch that can be turn off. Various 12volts and 220volts run thru the fitted **power inverters** that distribute the electric currents in its correct voltage, this also to incorporate plugs, emergency lighting and others.

Air conditioning system will place on the patient compartment

LED roof lamp for proper lighting

Roof ventilator extractor for in and our ventilation

Rear projector scene light

Rotating light at the rear top of the vehicle

Red or Blue flashing light in the front of the car

LED light bar with built in siren public speaker system and amplifier

Windows are frosted

Medical specifications and positioning

HALL WAY

Main wheeled transporter

The stretcher is mounted on the floor with rail and locking system. Tubular aluminium construction provides durability & strength. This cot adjusts to six height levels. Adjustable backrest angle from 0° to 75° allows patient to be positioned during transportation. Two patient restraints ensure maximum safety of the patient during transport. One of the lightest lift-in cot in the industry, easily installed in ambulance.

Maximum Height: 85 cm

Minimum Height: 32 cm

Maximum Length: 193 cm

Overall width: 58 cm

Weight (without mattress) 29 kg



IV holder

Dual drip holder

Mounted on the patient cabin ceiling

Oxygen System

1 x 10ltrs of Aluminum Oxygen Cylinder, with pressure regulator

Full set of oxygen accessories: Oxygen mask, piping and tubing



Suction Machine Unit



Portable phlegm suction unit is a newly designed oil-free lubrication pump based on extensive design experience and development trend of domestic and overseas products. It is specially designed for adsorbing thick liquid such as blood, phlegm etc.

High negative pressure, large-flux, low-noise. It is a brand new mechanism design which bottle hidden inside and square negative pressure meter crust completely made of plastic

Folding Stretcher

Aluminium Alloy Folding Stretcher

Stretcher Opened:

Approx. 2000(L) x 550(W) x 150(H)mm

tubes: Approx. Dia. 30 x 1.5mm Carrying Capacity:

Approx. 150Kg.



First Aid kit



Disposable Syringes Size 10cc, 5cc, 3cc



Sharp Container



Facemask



Stethoscope



Sphygmomanometer wall mounted



Fire Extinguisher 2kg

