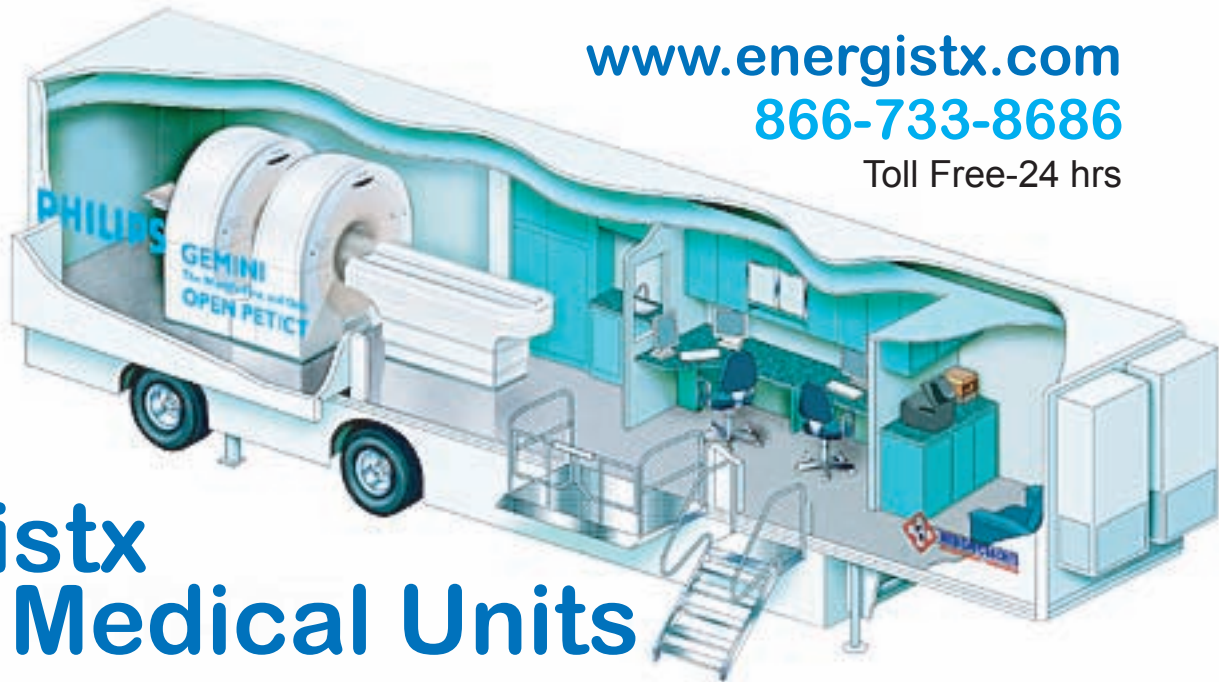


**Contact:**  
Halle Blessing  
831.423.6363  
info@energistx.com

[www.energistx.com](http://www.energistx.com)  
**866-733-8686**  
Toll Free-24 hrs



# Energistx Mobile Medical Units

Dear Customer,

Thank you for contacting Energistx for your Mobile Medical solutions. We offer a diverse selection of mobile platforms, floorplans, and equipment to meet your unique specifications and field applications. Units described here are manufactured in the US between a handful of experienced Manufacturers specializing in Mobile Medical Units and Hospitals. You may choose from our existing floorplans or have units custom designed to your specs. Units take 1 to 7 months to manufacture. Energistx is not a middleman or reseller, but an actual Manufacturer's Rep, so you contract directly with the Manufacturer. If you have specific design or equipment requirements, and are ready for a quote, please request a Design Questionnaire.



**International Disaster Services:** Builds container-based units in 8x40 ft configurations primarily. Economical, extra-durable construction in solid steel shipping containers. Custom designed or choose from existing floorplans. Units can come fully equipped or customer may install specialty medical equipment upon delivery.



**Medcoach:** Builds turn-key, fully mobile, semi- or van mounted units complete with new medical equipment to your specifications since 1949. Unsurpassed quality and experience, delivering reliable medical facilities internationally for both private and governmental organizations. Many floorplans to choose from. Financing Available.



**ABMSC:** Builds fully equipped, mobile modular units, capable of being scaled out into a permanent facility. They are spacious semi-mounted buildings completely stocked with medicines and equipment. Custom designs and financing program available.



# Expandable Hospital Medical Units

toll free 866.733.8686  
direct 831.423.6363  
fax 831.423.9331  
www.energistx.com  
info@energistx.com

American Bio-Medical Service Corporation (ABMSC) has developed the most advanced, fully self-sustaining, mobile medical care facility known to date. Currently, there are no other certified commercial transportable medical units available with the self-sufficiency, mobility, and design flexibility.

As a fully functioning, self-sustaining mobile surgical/medical center, the mobile unit requires very little setup time and comes equipped with security and monitoring systems. The spacious design flows from room to room offering a comfortable environment for patients and staff. These modular units can be modified to create ancillary facilities, such as housing or teaching units for staff and patients.

All models are mobile and capable of being transported by cargo ships, overland haulers, or military helicopters. Each mobile unit can remain on its own axle or can be installed on a foundation for semi-permanent or permanent use. The units can also be linked to form a modular building complex, such as a full-fledged hospital.

## Features

- The mobile unit can be connected to local commercial utility power. (Back-up power will automatically kick in if interrupted.)
  - The generator is capable of continuous 24-hour operation for one week using diesel fuel.
  - Self-contained fresh water supply; black and grey waste tanks all concealed under unit.
  - Redundant air-conditioning system with five fan-coils and individually controlled temperature zones.
  - On-demand electric water pump used for all sinks, water heater, and toilets; built-in 10-gallon water heater.
  - Fully installed medical gas and vacuum system (includes manifold, monitors and alarm system).
- Complete security systems with outside remote camera system.

## Custom Construction

- Exterior can be modified to customer color or design (i.e., national flag, etc.) specifications.
- Built specifically to handle the rigorous conditions found in disaster areas or environmentally hostile locations.
- Entire undercarriage can be insulated and sealed against severe climatic conditions.

# Transportable Hospitals

THE TMACC  
*The First Certified, Medical, Surgical Building on Wheels*



In response to the demand for new dynamic types of medical services, **ABMSC** has utilized its expertise as a **developer of medical facilities** by announcing the development and release of the **Transportable Modular Ambulatory Care Center (TMACC)**.



Emergency Medical Care has entered a new paradigm requiring medicine to be more accessible, more immediate and highly advanced. This paradigm requires a **mobile, point of care facility** that is quick to respond and able to house a full **emergency response medical team**, or create a **permanent urban care medical facility** in all terrains.

### **Point of Care unit that is unique in many ways:**

Due to its unique type of construction and the materials used in its fabrication, *The TMACC* is designed to be **transported to the site of need** even if there is difficult terrain or other challenging obstacles.

*The Units* mobility enhances emergency medical care response to the "point of need". When not in need, it can be easily stored at strategic locations such as **fire departments, military installations, schools, public parks or other local city, state, federal government facilities as well as private ones**. In the case of an emergency of vast proportions where local hospital facilities as well as other medical facilities are overburdened, *The TMACC* will be there.

Local communities can utilize the flexible modular design of *The TMACC* which **allows it to fit into any rural settings as a standard medical building to be used even on a daily bases**.

Furthermore, the utility and comprehensiveness of *The TMACC* units allows the professionals who work in them to attend to patients as if in a **hospital setting**. Units can also be devised to work as living quarters for the staff. They're stackable or can be linked together to form any size modular building complex.





# 50 Bed Expandable Hospital Option 1

toll free 866.733.8686  
 direct 831.423.6363  
 fax 831.423.9331  
 www.energistx.com  
 info@energistx.com



**TRANSPORTABLE MEDICAL CENTER**

Total area: 7,530 sq. ft.  
 Option 1



# 50 Bed Expandable Hospital Option 2

toll free 866.733.8686  
 direct 831.423.6363  
 fax 831.423.9331  
 www.energistx.com  
 info@energistx.com



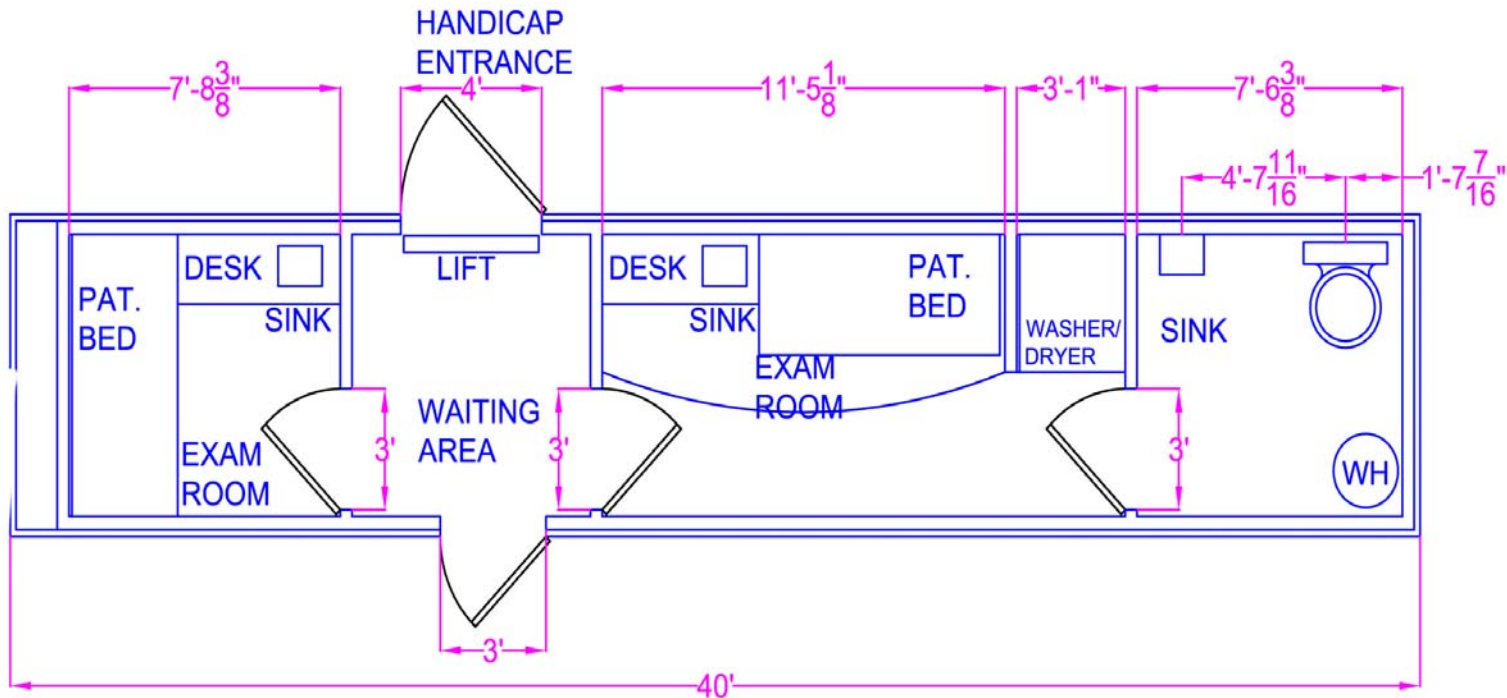
**TRANSPORTABLE MEDICAL CENTER**

Total area: 6,720 sq.ft.  
 Option 2

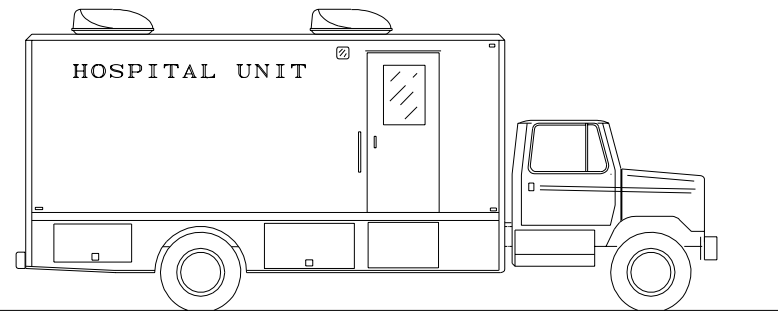


# Mobile Exam Room

toll free 866.733.8686  
 direct 831.423.6363  
 fax 831.423.9331  
 www.energistx.com  
 info@energistx.com



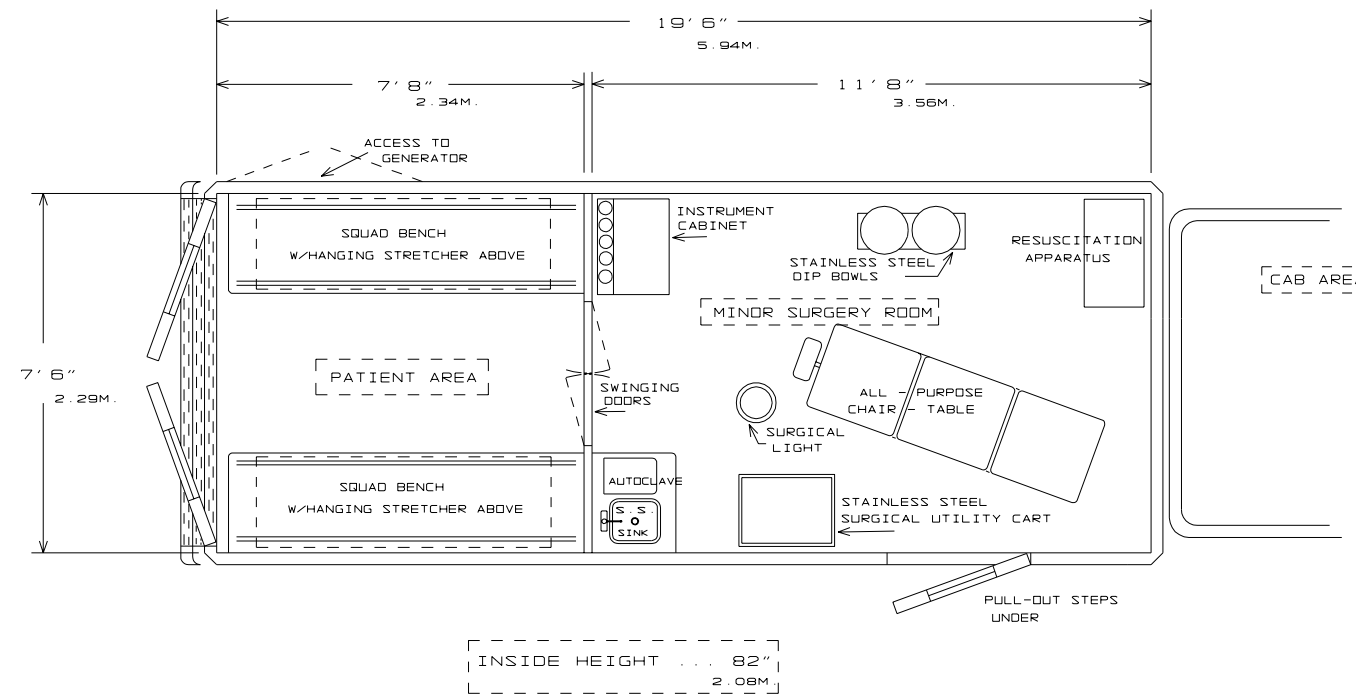
CORONET



20-FOOT BODY MOUNTED ON A CONVENTIONAL CAB & CHASSIS

# "CORONET"

OVERALL LENGTH ... 29' 6"  
 OVERALL WIDTH ... 8' 0"  
 OVERALL HEIGHT ... 12' 8"



INSIDE HEIGHT ... 82"  
 2.08M

# EMERGENCY RESCUE HOSPITAL UNIT

REV.	DESCRIPTION	DATE
	ALCO 3 (CONT)	

ISO 9001 CERTIFIED	CODE IDENT NO. 54409	MEDICAL COACHES INC. ONEONTA, NEW YORK, U.S.A.
"NOTICE This drawing and the data thereon shall not be duplicated, used or disclosed to others for procurement or manufacturing purposes, except as otherwise authorized by contract, without written permission of MEDICAL COACHES INC. All reproductions shall bear this notice.		"CORONET" EMERGENCY RESCUE HOSPITAL UNIT
DATE 29 JAN 1990	DRAWN BY ATC	JOB NAME
CHECKED BY _____	APPROVED BY GAS	JOB NO.
SCALE 1/4" = 1' 0"		DWG. NO. 3345



“CORONET”

Emergency Rescue Hospital Unit

Print #3345

Approximate Interior Dimensions

Length .....	19' 6" (5.94M)
Width .....	7' 6" (2.29M)
Height .....	6'10" (2.08M)

1. BODY FRAMING AND ASSEMBLY:

- A. In accordance with good engineering practice, the vehicle frame shall be lengthened or shortened to the required body length to provide support for all body crossmembers.
- B. Hardwood bed pieces shall be fitted to the top surface of the chassis frame, and counter bored to accommodate chassis frame rivets, to give uniform load distribution over the vehicle frame. Hardwood fillers shall be treated with wood preservative.
- C. The hardwood bed pieces shall be capped with hi-tensile steel, 3-inch channel along the full length of the longitudinal frame members.
- D. Evenly spaced, threaded “U” bolts, with tie bars and captive nuts, shall secure the body, steel channel and bed pieces to the chassis frame.
- E. Floor crossmembers shall be placed on approximately 16-inch centers and shall be of adequate size to carry body and payload without fracture or failure; minimum 11-gauge steel.
- F. Longitudinal members, if required, shall be constructed of steel and shall be free of fractures to the full length of the section.

050201/1943



1. BODY FRAMING AND ASSEMBLY: Continued .....
- G. General body wall construction shall consist of roll-formed “C” channels, 8.625 inch high by 1.75 inch deep, 3003-H14 aluminum alloy, .080 inch thick. The channels shall run horizontally the entire length and width of the unit and shall be secured to aluminum corner posts, roof rail and lower rail using 3/16-inch brazier head aluminum rivets. Finished exterior body surfaces shall be smooth with no rivets.
- H. The roll-formed “C” channels shall comprise the exterior body sides and end panels. The channels shall be fastened together along their full length with Plexus, or equal, high-performance adhesive specially designed for metal bonding (same as widely used in transportation, marine, and aviation industries). The bond formed has a tensile strength of approximately 2,500 PSI (strain-to-failure ration greater than most commercial mechanical fasteners); temperature resistance range of -67° F to +250° F; chemical resistance; high-fatigue endurance; and impact resistance.
- I. Each wall section shall be reinforced with vertical aluminum members, which are welded on a minimum of 48-inch centers.
- J. The roof carlines shall be aluminum extrusions, 6063-T6 alloy, which shall be welded to the roof rail on 16-inch centers. The roof assembly shall consist of a one-piece, .040-inch aluminum roof. Roof panel to be secured around perimeter with adhesive and 3/16-inch brazier head aluminum rivets to aluminum extruded roof rail.
- K. All window and door openings shall be framed with welded aluminum structures and gusseted to prevent torsional twisting. Heavy-gauge metal tapping plates shall be installed between frame members to secure heavy wall-mounted equipment as per custom body floor plan. Around perimeter of interior body at ceiling, an integral part of roof rail is provided to secure ceiling, side panels and overhead cabinets. At ceiling, there shall be installed tapping plates to permit positive securing of light fixtures.
- L. Unit shall be equipped with lights and directional signals (front and rear) and back-up lights in accordance with D.O.T. Safety Regulations. Cab equipped with mirror on left and right sides.
- M. Lower front corners of body shall be protected by 3M, Mylar, or equal, gravel guards.

2. INSULATION:

Body shall be insulated on sides, ends, floor and ceiling with foamed-in-place urethane. Insulation offers optimum environmental protection; adds support to sides, ends and roof; prevents entrance of moisture; and acts as a sound retardant. (Minimum: R-12.)

3. WALLS AND CEILING:

- A. The interior walls shall be lined for full width and length with 1/4-inch thick laminated formica panels. Panels shall be secured with joiners, edgings and moldings specifically designed for this purpose.
- B. Ceiling shall be surfaced with NUDO Products, FiberCorr, or equal, ceiling panels, consisting of .090-inch FRP overlay laminated to a corrugated plastic core.

4. FLOOR:

- A. Between cross sills, secure 26-gauge galvanized sheet to fully enclose floor area. Above cross sills, secure 3/4-inch thick plywood which is laminated on both sides with fiberglass-reinforced-plastic panels. The panel edges to be treated with edge-sealer for water resistance. Underside of floor panels exposed to road shall be sprayed with Quaker Koat, or equal, sound-deadening undercoating.
- B. Floor shall be surfaced with Armstrong, or equal, heavy-duty cushioned vinyl linoleum.

5. PAINING PROCEDURES:

- A. Body exterior shall be thoroughly cleaned, sanded and primed with PPG urethane primer. Body shall be painted with two (2) coats of PPG polyurethane topcoat, one color of buyer’s choice.
- B. Body shall be undercoated with Quaker Koat, or equal, sound-deadening undercoating.

6. ENTRANCE/EXIT DOOR(S):

- A. Doors shall be pan-type, constructed of 0.125-inch aluminum with aluminum tube reinforcement. Shall be insulated with structural urethane and close on dust-sealing neoprene extrusions. Door(s) shall include safety-glass window with designer venetian blinds plus double-acting door latch meeting FMVSS #206 standards with keyed lock. Hinges shall be stainless steel, continuous type with 3/16-inch (minimum) hinge pin. Suitable safety steps and grab handles shall be installed at door locations.
- B. Install safety-tread, pullout steps at side entrance/exit locations. Includes a handrail system for patient convenience.

7. ELECTRICAL SYSTEM:

Unit shall be wired to receive 4-wire, 120/240-volt, 60-Hertz, AC, single-phase, 30-amp power from generator or local power source via lead-in cable. Necessary wiring shall be provided for operation of 120/240-volt equipment where indicated.

8. WIRING:

- A. All wiring shall be NEC standard conduit with stranded wire or plastic jacketed, non-metallic sheathed cable with ground. Wiring and related devices shall be installed in a workmanlike manner, mechanically and electrically secure. Items requiring periodic service shall be readily accessible and serviceable. Wiring shall be protected by grommets when passing through structural members.
- B. Circuit breakers panel(s) of adequate capacity shall be installed at appropriate locations within body and shall include:
  - 1. Individual 120-volt circuits for utility equipment, lights, air conditioning and receptacles.
  - 2. 240-volt for electric heating units.
- C. Duplex receptacles shall be provided in convenient locations within body interior to conform to National Electric Code.
- D. Provide 50-foot, 4-wire lead-in cable with waterproof receptacle on one end and alligator clips on other end for connection to 120/240-volt power source. Cable shall be sized to unit capacity.

9. LIGHTING:

- A. Fluorescent lights in standard 1-, 2-, or 4-tube fixtures shall be surface-mounted on interior body ceiling within plastic diffuser panels or beneath cabinets above work surfaces. Diffusers shall be equipped with latching device to prevent falling in transit.
- B. 12-volt dome lights shall be provided at each door entrance and within exterior body compartments.
- C. Install a floodlight on unit exterior at each door entrance. Floodlight shall be controlled by interior switch.



10. GENERATOR/GENERATOR COMPARTMENT: (Gasoline Generator)
  - A. Compartment shall be accessible from side via hinged, louvered doors equipped with flush-mounted locks and holders in the open position
  - B. Compartment shall be properly framed with aluminum members and surfaced with .090-inch aluminum panels. Compartment shall be enclosed with 1/2-inch Homosote on the body interior and surfaced with formica counter topping and paneling on the vertical wall. Area between the inner and outer walls of compartment shall be insulated with foamed-in-place urethane.
  - C. Provide a 7.5 kilowatt Onan, or equal, 120/240-volt, 60 Hertz, single phase, generator equipped with vacuum cooling device, remote controls, starting battery, and critical area silencer. Shall be installed for easy servicing, proper heat and exhaust dissipation, and connected to vehicle fuel tank for gasoline supply.
  - D. Generator shall be hard-wired to a three-position, manual transfer switch to change power input from generator to local power source, if available.
  - E. Generator shall be shock-mounted on vibration isolators.
  - F. A seamless exhaust section shall connect the generator manifold with the intake of the critical area silencer. A 5-foot flexible, stainless steel exhaust extension equipped with quick-disconnect connector shall be provided to add to underbody exhaust line for additional exhaust dissipation.
  - G. A remote start/stop button, hour meter, and battery condition indicator shall be installed within body interior
  - H. Compartment shall be lined with Tufcote, or equal, sound barrier material
  
11. AIR CONDITIONING/HEATING:
  - A. Install two (2) Coleman, or equal, roof-mounted air conditioners with electric resistance heat strip within reinforced roof section. Units shall be rated at 13,500 BTU cooling and 5,600 BTU heating; 120 volt.
  - B. Install two (2) thermostatically controlled, electric blower heaters within the body interior. Each heater rated at a minimum of 3,400 BTU.

12. PLUMBING:

- A. The plumbing system shall be designed to receive water directly from local sources or from the installed tank. Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily and without undue noise. All water piping shall be subjected to adequate water and pressure tests to determine leakage or loss in pressure.
- B. The plumbing system shall include:
  - 1. One (1) 20-gallon fresh water tank,
  - 2. One (1) 25-gallon wastewater tank with hose connection,
  - 3. One (1) Flojet, or equal, 120-volt heavy-duty water pump,
  - 4. One (1) 6-gallon electric water heater.
- C. The fresh water tank shall be installed within an insulated underbody skirt compartment accessible through a hinged door with flush-mounted lock and holding device for door in open position. Compartment shall be provided with electric heater for winter protection against freezing.
- D. Fresh water tank shall be connected to water heater and water faucet at sink by high pressure, polybutylene tubing.
- E. Plumbing system shall be equipped with check valves in accordance with approved commercial practice.
- F. Provide one (1) 50-foot water hose and one (1) wastewater hose. Hoses to be different sizes to prevent intermix.
- G. Install a dispenser for folding paper towels at each sink location.
- H. Waste water shall drain to waste tank or hose connection through corrosion-resistant PVC tubing.
- I. Unit shall be equipped with a water filter with replaceable filter element.

14. INTERIOR FURNISHINGS:

A. Patient Area:

1. On each side of body interior, provide heavy-duty squad bench with storage under. Includes reinforcement, hinged doors, “U”-guide channels to receive litter feet, and a removable upholstered seat pad. Stretcher hold-downs also provided.
2. Provide four (4) military litter-type, Ferno Model FW-108AF, pole stretchers. Includes vinyl-covered canvas and rugged aluminum cross spreaders and feet. Stretchers can be folding for storage.
3. Two (2) stretchers shall be suspended from the ceiling above squad benches. Includes ceiling suspension, plastic-coated eye bolts, and aluminum suspension bars with plastic-coated lower hook, plus plastic-coated wall hooks with special “captive” top design to prevent stretchers from bouncing out in transit. All hardware fastened to heavy-duty tapping plates.

B. Surgical Room:

1. Accessible through double-swinging doors equipped with locking device on both sides. Doors shall be equipped with an aluminum kick-scuff plate on both sides at bottom. Aluminum, stainless steel, or chrome hand push plates shall be provided in the upper section of each door on both sides.
2. Install a UMF 5835, or equal, examining and operating chair/table equipped with articulated backrest, shoulder rests, stirrups, cushion, and Trendelenburg feature.
3. Build in a stainless steel sink within formica surfaced work counter. Shall include hot and cold water mixing faucet energized by foot pedals.
4. Install on shelf above sink cabinets a Vernitron 8020, or equal, autoclave with capacity for three instrument trays.
5. Provide and secure a UMF, or equal, double bowl stainless steel solution stand. Stand mounted on a 2-inch conductive soft rubber, easy swivel, ball bearing casters.
6. Provide and secure a UMF, or equal, kick bucket with a 12-quart stainless steel pail encircled with a conductive rubber bumper. Mounted on ball-bearing conductive rubber casters.

14. INTERIOR FURNISHINGS: Continued .....

B. Surgical Room: Continued .....

7. Provide and secure a Wilson Magee stainless steel crash cart. Includes three (3) full width drawers, with nylon rollers; and full-width storage compartment at bottom. Unit is mounted on 5-inch ball bearing casters. Tubular steel push handle with donut-type rubber bumpers. Lower corners have heavy-duty corner bumpers. Includes stainless steel Mayo attachment, double hook irrigator rod, adhesive rack, cardiac pressboard, and conductive casters.
8. Install UMF Model SS8201, or equal, treatment cabinet with stainless steel top and bottle rack.
9. Provide and secure a stainless steel Mayo stand, UMP Model SS8310, or equal.
10. Provide a floor- or wall-mounted, high intensity surgical lamp, Burton Model 11201, or equal.
11. Provide an oxygen administration unit complete with one (1) oxygen cylinder (“E” size), regulator, flowmeter, humidifier, 10-foot tubing, and masks mounted on crash cart.



14. MISCELLANEOUS:

- A. Four (4) removable, heavy-duty, swing-away stabilizing jacks shall be provided.
- B. Two (2) 2-1/2 pound dry chemical fire extinguishers shall be bracketed and installed within body interior.
- C. One (1) highway warning kit, including three (3) red emergency triangle reflectors shall be provided.
- D. Underbody storage compartments shall be provided to store lead-in cable, etc. Accessible through hinged doors with holding devices and flush-mount chrome locks.
- E. Install coat hooks at convenient locations within body interior.
- F. Provision shall be made for securing all equipment during operational transit.
- G. Two (2) copies of Medical Coaches' Operator's Manual shall be provided. Shall include one (1) set of supporting manuals covering supplied items such as chassis, generator, air conditioner, etc., if supplied.
- H. Install an access port within the compartment or compartment door of every generator, electrical cable and plumbing compartment allowing the lead-in cable and hoses to be connected to the unit with the main compartment doors closed and locked.
- I. An emergency 12-volt lighting system with rechargeable battery and trickle charger shall be installed.

15. CHASSIS/BODY EQUIPMENT:

- A. All vehicle lights (chassis and body), reflectors, markings and wiring systems shall be in conformance with D.O.T. safety regulations and state laws. The system shall be 12-volt. Lights shall not be mounted on rub rails or vehicle bumper. An illuminated rear license plate holder shall be furnished.
- B. Turn signals, SAE Class A, Type I, with Class A operating units mounted on the steering column shall be furnished. Vehicle shall be equipped with single-faced front and rear signal units installed in accordance with SAE recommendations. Operating units shall be provided with a visible and an audible flash indicator. Back-up lights shall be installed.

16. PRE-DELIVERY PREPARATION:

Prior to delivery the entire vehicle shall be serviced by a local authorized chassis dealer for drive-away delivery. Each component will be serviced in accordance with the manufacturer’s recommendation.

17. SPECIAL REQUIREMENTS:

- A. Details concerning colors, exterior painting, and lettering, etc., plus delivery of completed unit to be arranged at a later date in accordance with buyer’s wishes.
- B. Due to variances in state and local regulations, there may be some additional options required for individual compliance. If compliance necessitates extra-cost options, they will be quoted separately as necessary.

18. LIMITED WARRANTY:

- A. Medical Coaches Incorporated offers a limited warranty on the mobile unit for twelve (12) months or 12,000 miles. The warranty includes all equipment supplied by Medical Coaches except those items that are covered by a separate warranty.
- B. A detailed warranty statement shall be provided upon purchase or upon request.

<u>OPTIONAL ITEMS :</u>	<u>CHECK IF DESIRED:</u>
A. Lettering exterior body at sides, front and rear to buyer’s order (Special artwork and emblems at extra cost.) .....	<input type="checkbox"/>
B. Paint body two-tone instead of standard one color .....	<input type="checkbox"/>
C. Paint truck cab other than standard color .....	<input type="checkbox"/>
D. Unit to be wired for 50-Hertz service (Export Only):	
1. Generator to be de-rated to produce 220-volt, 50-Hertz, AC, 2-wire power. Includes grounding rod with chain. All electrical equipment within body to be equipped for 50-Hertz service .....	<input type="checkbox"/>
2. If any 110-volt equipment is to be installed, provide a 3,000-watt step-down transformer and connections to 110-volt receptacles .....	<input type="checkbox"/>
E. Provide a stereo AM/FM radio/compact disc player connected to overhead speaker system. Includes body-mounted antenna .....	<input type="checkbox"/>
F. 35-item tool kit contained in metal carrying case .....	<input type="checkbox"/>
G. 24-unit first aid kit with all necessary bandages, antiseptics and burn ointments contained in a steel box .....	<input type="checkbox"/>
H. Provide one (1) folding aluminum table and two (2) steel folding chairs .....	<input type="checkbox"/>
I. Exterior Tent: To be a Eureka, Riverside, or equal, 9-feet x 12-feet with center height of 7-feet 6-inches, full floor, door and three (3) large windows with storm flaps. To be used for additional patient area or staff living area .....	<input type="checkbox"/>
J. Fisher Micromaster I, or equal, binocular microscope with carrying case .....	<input type="checkbox"/>
K. Two burner electric hot plate .....	<input type="checkbox"/>
L. Trauma Kit II, trauma/first aid kit, approximately 100 items. (List available upon request.) .....	<input type="checkbox"/>
M. Generator spare parts kit .....	<input type="checkbox"/>
N. IV stand, stainless steel base, telescoping action, double hook cross piece, locking device, and three (3) 2-inch conductive casters. ....	<input type="checkbox"/>
O. Anesthesia System – OHMEDA, Excell 110, or equal, 2 gas anesthesia machine with ventilator, GMS absorber, Halothane vaporizer, and gas scavenger .....	<input type="checkbox"/>
P. GOMCO, or equal, surgical suction unit .....	<input type="checkbox"/>
Q. Two (2) five gallon emergency gasoline cans bracketed and secured against theft. ....	<input type="checkbox"/>

**CHASSIS SPECIFICATION**

Chassis Model .....	Chevrolet/GMC C7500 Chassis Cab
Wheelbase .....	224 inches
Cab-to-Axle .....	156 inches
Gross Vehicle Weight Rating (GVWR) ...	26,000 pounds
Engine (Gasoline) .....	V-8 (8.1L) 295 HP
Transmission (Manual) .....	5-speed
Clutch .....	Heavy-duty
Brakes (Service) .....	Power, split-hydraulic
Steering .....	Power
Alternator .....	105 amp
Battery .....	Delco Freedom II, F-20, 600 CCA
Axle, Front .....	8,100 pounds
Axle, Rear .....	19,000 pounds
Springs, Front .....	9,000 pounds
Springs, Rear .....	21,000 pound capacity with auxiliary
Tires (6) .....	235/80R22.5G; singles front; duals rear
Shock Absorbers.....	Front and rear
Gauges .....	Voltmeter, oil pressure, water temperature
Radiator .....	Increased cooling
Seat .....	Full width bench
Glass .....	Tinted
Heater and Defroster .....	Fresh air
Mirrors .....	Dual, West Coast; stainless
Bumper and Grille .....	Painted
Seat Belts .....	Driver and passenger
Windshield Wipers .....	2-speed electric with washers
Armrests .....	Driver and passenger
Sun Visors .....	Driver and passenger
Horn .....	Single electric
Fuel Tanks .....	Dual, 50 gallon, step tanks
Frame .....	Reinforced
Color .....	White

Optional Items:

Check if  
Desired:

- |   |                          |
|---|--------------------------|
| A. Spare tire, wheel, and carrier .....         | <input type="checkbox"/> |
| B. Cab air conditioning .....                   | <input type="checkbox"/> |
| C. AM/FM Radio .....                            | <input type="checkbox"/> |
| D. 5-speed automatic transmission .....         | <input type="checkbox"/> |
| E. 7.2L. diesel engine .....                    | <input type="checkbox"/> |
| F. Full air brakes .....                        | <input type="checkbox"/> |
| G. 4-wheel drive (4x4); custom conversion ..... | <input type="checkbox"/> |



**CHASSIS SPECIFICATION**

Chassis Model .....	Ford F-650 Chassis Cab
Wheelbase .....	230 inches
Cab-to-Axle .....	156 inches
Gross Vehicle Weight Rating (GVWR) ...	26,000 pounds
Engine (Diesel) .....	Cummins 205 HP
Transmission (Manual) .....	6-speed
Clutch .....	Heavy-duty
Brakes (Service) .....	Power, split-hydraulic
Steering .....	Power
Alternator .....	115 amp
Batteries (Dual) .....	93 amp-hr.; maintenance free, 625 CCA
Axle, Front .....	9,000 pounds
Axle, Rear .....	17,500 pounds
Springs, Front .....	8,500 pound capacity
Springs, Rear .....	17,500 pound capacity with auxiliary
Tires (6) .....	10R22.5(F); singles front; duals rear
Shock Absorbers.....	Front and rear
Gauges .....	Ammeter, oil pressure, water temperature
Radiator .....	Increased cooling
Seats .....	Driver with 2-passenger
Glass .....	Tinted
Heater and Defroster .....	Fresh air
Mirrors .....	Dual, West Coast; stainless
Bumper and Grille .....	Painted
Seat Belts .....	Driver and passengers
Windshield Wipers .....	2-speed electric with washers
Armrests .....	Driver and passenger
Sun Visors .....	Driver and passenger
Horn .....	Dual electric
Fuel Tanks .....	Dual, 50 gallon, step tanks
Frame .....	Reinforced
Color .....	White
Radio .....	AM/FM

Optional Items:

Check if  
Desired:

- |  |                          |
|--|--------------------------|
| A. Spare tire, wheel, and carrier .....          | <input type="checkbox"/> |
| B. Cab air conditioning .....                    | <input type="checkbox"/> |
| C. AM/FM Radio with CD player .....              | <input type="checkbox"/> |
| D. 4-speed automatic transmission (AT 545) ..... | <input type="checkbox"/> |
| E. Full air brakes .....                         | <input type="checkbox"/> |
| F. 4-wheel drive (4x4); custom conversion .....  | <input type="checkbox"/> |

**CHASSIS SPECIFICATION**

Chassis Model .....	International; 4300 Chassis Cab (4x2)
Wheelbase .....	218 inches
Cab-to-Axle .....	150 inches
Gross Vehicle Weight Rating (GVWR) ...	25,500 pounds
Engine (Diesel) .....	International 7.3L; 195 HP @ 2600 RPM
Transmission (Manual) .....	6-speed
Clutch .....	Heavy-duty
Brakes (Service) .....	Hydraulic, split-system
Steering .....	Power
Alternator .....	100 amp
Batteries (2) .....	12-volt, Maintenance Free, 1100 CCA total
Axle, Front .....	8,000 pounds
Axle, Rear .....	17,500 pounds
Springs, Front .....	8,000 pounds
Springs, Rear .....	18,500 pound capacity with 4,500 pound auxiliary
Tires (6) .....	10R22.5(12PR); singles front; duals rear
Shock Absorbers.....	Front and rear
Gauges .....	English cluster with electronic speedometer and tachometer
Seat .....	Full width bench
Glass .....	Tinted
Mirrors .....	Dual, West Coast; aluminum
Seat Belts .....	Driver and passenger
Windshield Wipers .....	2-speed electric with washers
Armrests .....	Driver and passenger
Sun Visors .....	Driver and passenger
Horn .....	Dual electric
Fuel Tanks .....	Dual, 50 gallon, step tanks
Frame .....	Reinforced
Color .....	White
Cab Air Conditioning .....	Installed

Optional Items:

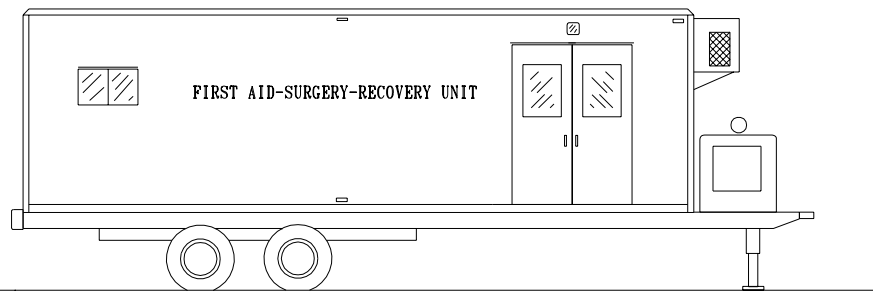
		<u>Check if</u> <u>Desired:</u>
A. Spare tire, rim and carrier .....	\$650.	<input type="checkbox"/>
B. AM/FM radio with CD .....	\$450.	<input type="checkbox"/>
C. 4-speed automatic transmission (AT545) .....	\$3,555.	<input type="checkbox"/>
D. Air-ride suspension .....	\$2,535.	<input type="checkbox"/>

**CHASSIS SPECIFICATION**

Chassis Model .....	International; 7300 Chassis Cab (4x4)
Wheelbase .....	218 inches
Cab-to-Axle .....	150 inches
Gross Vehicle Weight Rating (GVWR) ...	25,500 pounds
Engine (Diesel) .....	International DT466; 195 HP @ 2300 RPM
Transmission (Manual) .....	6-speed
Clutch .....	Heavy-duty
Brakes (Service) .....	Dual air system
Steering .....	Power
Alternator .....	100 amp
Batteries (2) .....	12-volt, Maintenance Free, 1100 CCA total
Axle, Front .....	10,000 pounds
Axle, Rear .....	17,000 pounds
Springs, Front .....	10,000 pounds
Springs, Rear .....	18,500 pound capacity with 4,500 pound auxiliary
Tires (6) .....	11R22.5(14PR); singles front; duals rear
Shock Absorbers.....	Front and rear
Gauges .....	English cluster with metric electronic speedometer and tachometer
Seat .....	Full width bench
Glass .....	Tinted
Mirrors .....	Dual, West Coast; painted steel
Seat Belts .....	Driver and passenger
Windshield Wipers .....	2-speed electric with washers
Armrests .....	Driver and passenger
Sun Visors .....	Driver and passenger
Horn .....	Dual electric
Fuel Tanks .....	Dual, 50 gallon, step tanks
Frame .....	Reinforced
Color .....	White

<u>Optional Items:</u>		<u>Check if</u>
A. Spare tire, rim and carrier .....	\$750.	<u>Desired:</u> <input type="checkbox"/>
B. Cab air conditioning .....	\$1,570.	<input type="checkbox"/>
C. AM/FM radio with CD .....	\$450.	<input type="checkbox"/>
D. 4-speed automatic transmission .....	\$8,640.	<input type="checkbox"/>

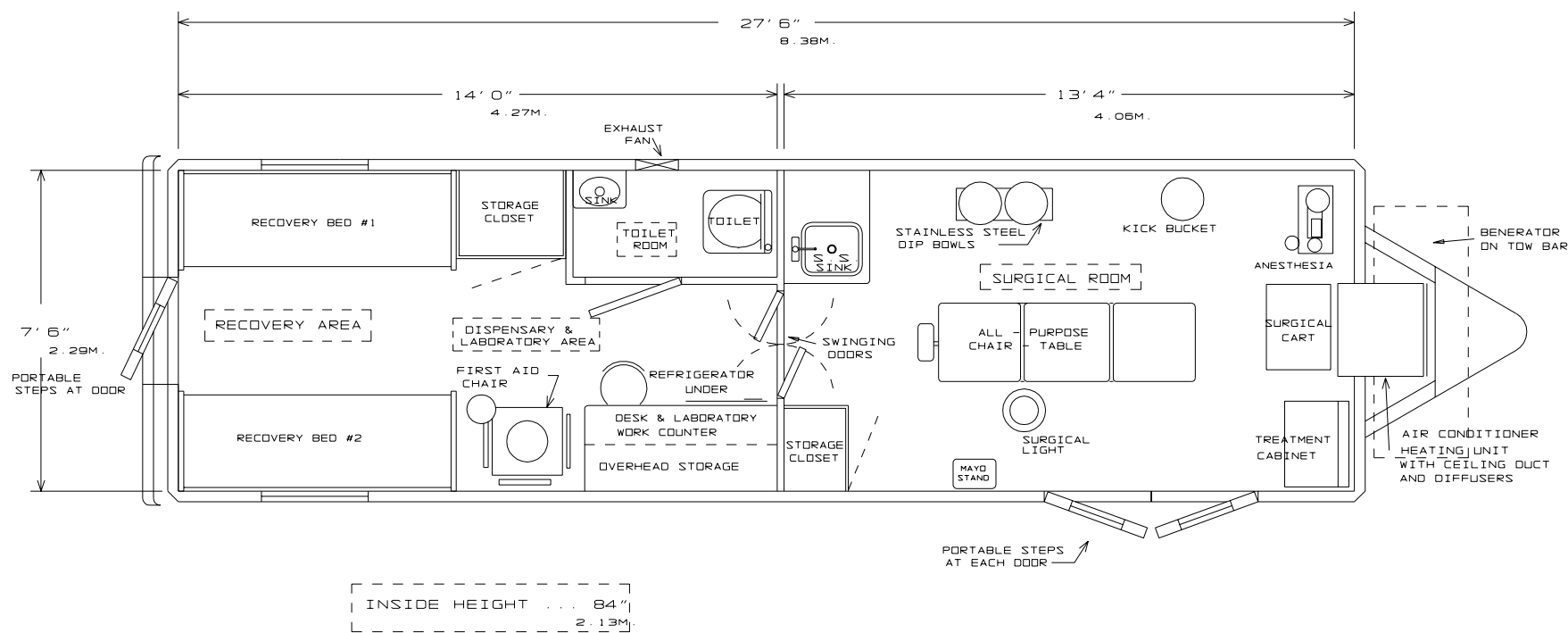
CASPIAN



28-FOOT TOWED TRAILER

"CASPIAN"

OVERALL LENGTH ... 32' 6"  
 OVERALL WIDTH ... 8' 0"  
 OVERALL HEIGHT ... 11' 2"



FIRST AID-SURGERY-RECOVERY TRAILER

ISO 9001 CERTIFIED	CODE IDENT NO. 54409	MEDICAL COACHES INC. ONEONTA, NEW YORK, U.S.A.
"NOTICE This drawing and the data thereon shall not be duplicated, used or disclosed to others for procurement or manufacturing purposes, except as otherwise authorized by contract, without written permission of MEDICAL COACHES INC. All reproductions shall bear this notice.		"CASPIAN" FIRST AID-SURGERY-RECOVERY TRAILER
DATE 15 APRIL 1998	DRAWN BY ATC	JOB NAME
CHECKED BY	APPROVED BY GAS	JOB NO.
SCALE 1/4"=1'-0"		DWG. NO. 2502

REV.	DESCRIPTION	DATE
	ALCO 38	





“CASPIAN”

First Aid / Surgery / Recovery Trailer

Print #2502

Approximate Interior Dimensions

Length .....	27' 6" (8.38M)
Width .....	7' 6" (2.29M)
Height .....	7' 0" (2.13M)

1. TRAILER AND BODY CONSTRUCTION:

- A. All steel heavy-duty trailer chassis shall consist of two longitudinal frame members with structural shape cross members, outriggers and gusseting; custom-designed and equipped to support the trailer unit and interior load. Critical areas shall be strengthened by the use of additional cross members and gusseting where deemed necessary. An electrically welded perimeter shall be provided around frame. All steel material shall conform to ASTM specifications.
- B. Running gear shall consist of a heavy-duty 24,000-pound tandem, bogie axle assembly with sealed electric brakes on all axles. Each axle installed shall be rated at 6,000 pounds capacity and equipped with matched tires, wheels and springs. Axle assemblies shall be mounted to a steel under-carriage specially designed to resist torsional twisting and to maintain proper weight distribution.
- C. Trailer to be equipped with electric brakes with connections to towing vehicle. Includes drawbar coupler and hoist, meeting SAE-ICC requirements, safety chains, safety breakaway and landing gear. Reinforced frame drawbar for heavy-duty service.
- D. Trailer shall be equipped with running lights, reflectors, markers and wiring in accordance with D.O.T. safety regulations. The system shall be 12-volt with plug-in connection to towing vehicle. Running lights shall be installed within chromed brush guards.

080301/0766

1. TRAILER AND BODY CONSTRUCTION: Continued .....

- E. The trailer shall be equipped with a full width, steel rear bumper. The bumper shall have reflective stripes to give an indication of the width of the trailer.
- F. General body wall construction shall consist of roll-formed “C” channels, 8.625 inch high by 1.75 inch deep, 3003-H14 aluminum alloy, .080 inch thick. The channels shall run horizontally the entire length and width of the unit and shall be secured to aluminum corner posts, roof rail and lower rail using 3/16-inch brazier head aluminum rivets. Finished exterior body surfaces shall be smooth with no rivets.
- G. The roll-formed “C” channels shall comprise the exterior body sides and end panels. The channels shall be fastened together along their full length with Plexus, or equal, high-performance adhesive specially designed for metal bonding (same as widely used in transportation, marine, and aviation industries). The bond formed has a tensile strength of approximately 2,500 PSI (strain-to-failure ration greater than most commercial mechanical fasteners); temperature resistance range of -67° F to +250° F; chemical resistance; high-fatigue endurance; and impact resistance.
- H. Each wall section shall be reinforced with vertical aluminum members, which are welded on a minimum of 48-inch centers.
- I. The roof carlines shall be aluminum extrusions, 6063-T6 alloy, which shall be welded to the roof rail on 16-inch centers. The roof assembly shall consist of a one-piece, .040-inch aluminum roof. Roof panel to be secured around perimeter with adhesive and 3/16-inch brazier head aluminum rivets to aluminum extruded roof rail.
- J. All window and door openings shall be framed with welded aluminum structures and gusseted to prevent torsional twisting. Heavy-gauge metal tapping plates shall be installed between frame members to secure heavy wall-mounted equipment as per custom body floor plan. Around perimeter of interior body at ceiling, an integral part of roof rail is provided to secure ceiling, side panels and overhead cabinets. At ceiling, there shall be installed tapping plates to permit positive securing of light fixtures.
- K. Floor crossmembers shall be 4-inch deep trailer “I” beams spaced on 16-inch centers.

2. INSULATION:

Body shall be insulated on sides, ends, floor and ceiling with foamed-in-place urethane. Insulation offers optimum environmental protection; adds support to sides, ends and roof; prevents entrance of moisture; and acts as a sound retardant. (Minimum: R-12.)

3. WALLS AND CEILING:

- A. The interior walls shall be lined for full width and length with 1/4-inch thick laminated formica panels. Panels shall be secured with joiners, edgings and moldings specifically designed for this purpose.
- B. Ceiling shall be surfaced with NUDO Products, FiberCorr, or equal, ceiling panels, consisting of .090-inch FRP overlay laminated to a corrugated plastic core.

4. FLOOR:

- A. Between cross sills, secure 26-gauge galvanized sheet to fully enclose floor area. Above cross sills, secure 3/4-inch thick plywood which is laminated on both sides with fiberglass-reinforced-plastic panels. The panel edges to be treated with edge-sealer for water resistance. Underside of floor panels exposed to road shall be sprayed with Quaker Koat, or equal, sound-deadening undercoating.
- B. Floor shall be surfaced with anti-static tile in Surgery Room and heavy-duty linoleum in remainder of trailer.

5. PAINING PROCEDURES:

- A. Body exterior shall be thoroughly cleaned, sanded and primed with PPG urethane primer. Body shall be painted with two (2) coats of PPG polyurethane topcoat, one color of buyer’s choice.
- B. Steel structural trailer chassis undercarriage shall be painted black.
- C. Body shall be undercoated with Quaker Koat, or equal, sound deadening undercoating.

6. ENTRANCE/EXIT DOOR(S):

- A. Shall be pan-type, constructed of 0.125-inch aluminum with aluminum tube reinforcement. Shall be insulated with urethane and close on dust-sealing neoprene extrusions. Door(s) shall include safety-glass window with designer venetian blinds plus double-acting door latch meeting FMVSS #206 standards with keyed lock. Hinges shall be stainless steel, continuous type with 3/16-inch (minimum) hinge pin. Suitable safety steps and chromed grab handles shall be installed at door locations.
- B. Provide lightweight aluminum hang-on steps at side entrance/exit locations. Steps shall be equipped with adjustable neoprene feet and removable safety handrails for patient convenience.

7. WINDOWS:

Install Hehr, or equal, sliding safety-glass windows with insect screens within body sides. All windows shall be equipped with designer venetian blinds of appropriate color to complement interior décor.

8. ELECTRICAL SYSTEM:

Unit shall be wired to receive 4-wire, 120/240-volt, 60-Hertz, AC, single-phase, 60-amp power from generator or local power source via lead-in cable. Necessary wiring shall be provided for operation of 120/240-volt equipment where indicated.

9. WIRING:

- A. All trailer wiring shall be NEC standard conduit with stranded wire or plastic jacketed, non-metallic sheathed cable with ground. Wiring and related devices shall be installed in a workmanlike manner, mechanically and electrically secure. Items requiring periodic service shall be readily accessible and serviceable. Wiring shall be protected by grommets when passing through structural members.
- B. Circuit breakers panel(s) of adequate capacity shall be installed at appropriate locations within body and shall include:
  - 1. Individual 120-volt circuits for utility equipment, lights and receptacles.
  - 2. 240-volt for air conditioning and electric heating units.
- C. Duplex receptacles shall be provided in convenient locations within body interior to conform to National Electric Code.
- D. Provide 50-foot, 4-wire lead-in cable with waterproof receptacle on one end and alligator clips on other end for connection to 120/240-volt power source. Cable shall be sized to unit capacity.

10. LIGHTING:

- A. Fluorescent lights in standard 1-, 2-, or 4-tube fixtures shall be surface-mounted on interior body ceiling within plastic diffuser panels or beneath cabinets above work surfaces. Diffusers shall be equipped with latching device to prevent falling in transit.
- B. 12-volt dome lights shall be provided at each door entrance and within exterior body compartments.
- C. Install a floodlight on unit exterior at each door entrance. Floodlight shall be controlled by interior switch.

11. GENERATOR: (Gasoline)

- A. Install a 15 kilowatt Kohler, or equal, 120/240-volt, 60 Hertz, single phase, generator equipped with cooling device, remote controls, starting battery, and critical area silencer. Generator shall be installed for easy servicing, proper heat and exhaust dissipation, and connected to gas tank for fuel supply. Generator shall be equipped with one (1) 5-foot pigtail cable section with 60-amp waterproof receptacle for plugging into power inlet receptacle installed in front of unit. Generator shall be shock-mounted and housed in weatherproof cover.
- B. Generator shall be mounted on tread-plate steel platform on front of trailer tow bar. Entire generator shall be capable of being jacked off tow bar through use of four (4) manual jacks. This will eliminate transmission of vibration into surgical room.
- C. Install 50-gallon fuel tank under trailer skirt for fuel supply.

12. AIR CONDITIONING/HEATING:

- A. There shall be installed at the front of the mobile unit a Carrier, or equal, 230/208-volt, 60 Hertz, single phase air conditioning unit. Unit shall be shock-mounted, properly framed and connected to a metal duct installed between the roof and the ceiling. Duct shall be insulated and shall include adjustable air diffusers throughout body interior. Unit shall be thermostatically controlled. Condensate shall be dispensed via flexible tubing from air conditioner to ground. A rust-proof metal dust shield shall be provided in front of air conditioner intake, where applicable.

Cooling capacity: 27,200 BTU.

- B. Install a total of two (2) thermostatically controlled, electric blower heaters throughout body interior. Each heater rated at a minimum of 3,400 BTU.

13. PLUMBING:

- A. The plumbing system shall be designed to receive water directly from local sources or from the installed tank. Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily and without undue noise. All water piping shall be subjected to adequate water and pressure tests to determine leakage or loss in pressure.
- B. The plumbing system shall include:
  - 1. One (1) 40-gallon fresh water tank,
  - 2. One (1) 45-gallon wastewater tank with hose connection,
  - 3. One (1) Flojet, or equal, 120-volt heavy-duty water pump,
  - 4. One (1) 6-gallon electric water heater.
- C. The fresh water tank shall be installed within body interior for winter protection against freezing.
- D. Fresh water tank shall be connected to water heater and water faucet at sink by high pressure, polybutylene tubing.
- E. Plumbing system shall be equipped with check valves in accordance with approved commercial practice.
- F. Provide one (1) 50-foot water hose and one (1) wastewater hose. Hoses to be different sizes to prevent intermix.
- G. Install a dispenser for folding paper towels at each sink location.
- H. Waste water shall drain to waste tank or hose connection through corrosion-resistant PVC tubing.
- I. Unit shall be equipped with a water filter with replaceable filter element.

14. INTERIOR FURNISHINGS:

A. Surgery Room:

1. Accessible through swinging doors equipped with locking device on both sides. Aluminum, stainless steel, or chrome hand push plates shall be provided in the upper section of each swing door on both sides.
2. Install a UMF 5835, or equal, surgical/exam chair/table equipped with articulated headrest, drainage drawer, Bierhoff knee crutches, and cushion.
3. Build in stainless steel sink within formica surfaced work counter. Shall include hot and cold water mixing faucet energized by foot pedals.
4. Provide and secure a double-bowl stainless steel solution stand. Mounted on ball bearing conductive rubber casters.
5. Provide and secure a kick bucket with a 12-quart stainless steel pail encircled with a conductive rubber bumper. Mounted on ball bearing conductive rubber casters.
6. Provide and secure a Wilson, or equal, stainless steel crash cart. Includes three (3) full-width drawers, nylon rollers, full-width storage compartment at bottom and tubular steel push handle with donut-type rubber bumper. Includes stainless steel Mayo attachment, double-hook irrigator rod, adhesive rack, cardiac cardiac pressboard, oxygen tank holder, oxygen tank, regulator, humidifier, and masks.
7. Install a UMF, or equal, treatment cabinet with bottle rack installed.
8. Provide and secure a stainless steel Mayo stand.
9. Provide a floor- or wall-mounted, high-intensity surgical lamp.
10. Install on shelf above sink cabinets a Vernitron 8020 autoclave with capacity for three (3) instrument trays.
11. Provide and secure a portable anesthesia system, which includes: a 2-gas anesthesia machine with ventilator, GMS absorber, Halothane vaporizer, and gas scavenger. Ventilator includes oxygen, volume, and pressure monitor. Two (2) each “D” size oxygen and nitrous oxide cylinders shall be provided. (For use with non-flammable gases only. The surgical room is not explosion proof.)
12. Provide and secure a GOMCO, or equal, surgical aspirator (suction) with catheters, collection bottle, and stand.



14. INTERIOR FURNISHINGS: Continued .....

B. Toilet Area:

1. Shall be enclosed by floor-to-ceiling partition with access through hinged door with louver in lower section.
2. Install Thetford, Aqua-Magic, or equal, flush toilet with holding tank.
3. Install a stainless steel sink with hot and cold water faucet.
4. Provide toilet room accessories: to include: mirror, coat hooks, toilet paper holder, and paper towel holder.
5. Install a 120-volt power exhaust vent through exterior wall.

C. Dispensary/Laboratory Area:

1. Build in laboratory counter with storage above. Under counter install Jewett CT-1 blood bank refrigerator (less counter top). Unit equipped with TMS monitor system as well as dual automatic controls.
2. At desk provide castored, upholstered laboratory stool.
3. Provide and secure a first aid treatment chair for ENT, arm, and leg treatment. Includes side arms, basin, and cradle-type headrest.
4. At streetside build in floor-to-ceiling storage closet with adjustable shelves and pull-out drawers in lower section.

D. Recovery Area:

1. Install two (2) recovery beds with foam rubber upholstered pads.
2. Build in storage under pads.

15. MISCELLANEOUS:

- A. Four (4) removable, heavy-duty, swing-away stabilizing jacks shall be provided.
- B. Two (2) 2-½ pound dry chemical fire extinguishers shall be bracketed and installed within body interior.
- C. Underbody storage compartments shall be provided to store lead-in cable, etc. Accessible through hinged doors with holding devices and flush-mount chrome locks.
- D. Install coat hooks at convenient locations within body interior.
- E. Provision shall be made for securing all equipment during operational transit.
- F. Two (2) copies of Medical Coaches’ Operator’s Manual shall be provided. Shall include one (1) set of supporting manuals covering supplied items such as chassis, generator, air conditioner, etc., if supplied.
- G. Install an access port within the compartment or compartment door of every generator, electrical cable and plumbing compartment allowing the lead-in cable and hoses to be connected to the unit with the main compartment doors closed and locked.

16. BODY EQUIPMENT:

All vehicle lights, reflectors, markings and wiring systems shall be in conformance with D.O.T. Safety Regulations and State laws. The system shall be 12-volt. Lights shall not be mounted on rub rails or vehicle bumper. An illuminated rear license plate holder shall be furnished. Exterior lights shall be LED.

17. SPECIAL REQUIREMENTS:

- A. Details concerning colors, exterior painting, and lettering, etc., plus delivery of completed unit to be arranged at a later date in accordance with buyer’s wishes.
- B. Due to variances in State and Local regulations, there may be some additional options required for individual compliance. If compliance necessitates extra-cost options, they will be quoted separately as necessary.

18. LIMITED WARRANTY:

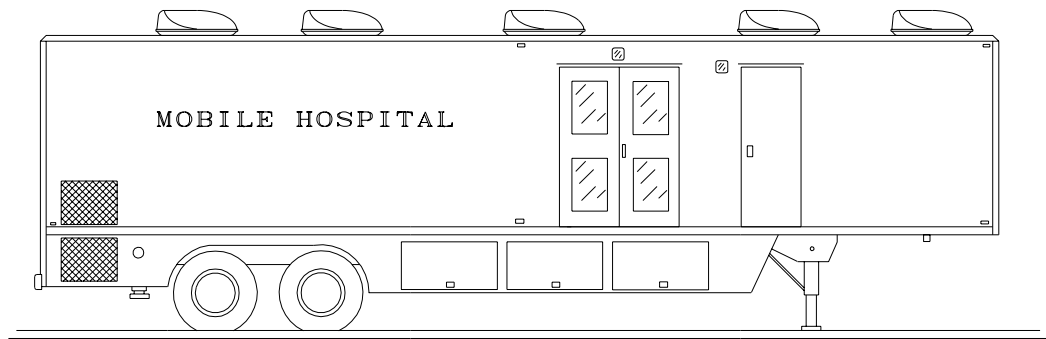
Medical Coaches Incorporated offers a limited warranty on the mobile unit for twelve (12) months or 12,000 miles. The warranty includes all equipment supplied by Medical Coaches except those items which are covered by a separate warranty.

A detailed warranty statement shall be provided upon purchase or upon request.

<u>OPTIONAL ITEMS :</u>	<u>CHECK IF DESIRED:</u>
A. Lettering exterior body at sides, front and rear to buyer’s order (Special artwork and emblems at extra cost.) .....	<input type="checkbox"/>
B. Paint body two-tone instead of standard one color .....	<input type="checkbox"/>
C. Spare tire, wheel and carrier. (Includes hydraulic jack and tire tool) .....	<input type="checkbox"/>
D. Unit to be wired for 50-Hertz service (Export Only):	
1. Generator to be de-rated to produce 220-volt, 50-Hertz, AC, 2-wire power. Includes grounding rod with chain. All electrical equipment within body to be equipped for 50-Hertz service .....	<input type="checkbox"/>
2. If any 110-volt equipment is to be installed, provide a 3,000-watt step-down transformer and connections to 110-volt receptacles .....	<input type="checkbox"/>
E. In order to permit the use of local power at specified locations, provide Russell & Stoll, or equal, reverse service, waterproof receptacle with cover and back box for installation in building .....	<input type="checkbox"/>
F. If above receptacle is provided, install matching 60-amp, reverse service waterproof connector on end of lead-in cable in place of alligator clips .....	<input type="checkbox"/>
G. Provide a 5-foot pigtail with connector on one end and alligator clips on the other end, for use in locations where no installed receptacle is available, if “F” above is provided .....	<input type="checkbox"/>
H. Public address equipment: Amplifier, microphone and one (1) exterior speaker .	<input type="checkbox"/>
I. 35-item tool kit contained in metal carrying case .....	<input type="checkbox"/>
J. 24-unit first aid kit with all necessary bandages, antiseptics and burn ointments contained in a steel box .....	<input type="checkbox"/>
K. Provide a variable-speed, heavy-duty oscillating fan .....	<input type="checkbox"/>
L. Provide one (1) folding aluminum table and two (2) steel folding chairs .....	<input type="checkbox"/>
M. Exterior Tent: To be a Eureka, Riverside, or equal, 9 feet x 12 feet with center height of 7 feet 6 inches, full floor, door and three (3) large windows with storm flaps. To be used for additional patient area or staff living area .....	<input type="checkbox"/>
N. Fisher Micromaster I, or equal, binocular microscope with carrying case .....	<input type="checkbox"/>
O. Army-style folding aluminum stretcher .....	<input type="checkbox"/>
P. Trauma Kit II, trauma/first aid kit, approximately 100 items. (List available upon request.) .....	<input type="checkbox"/>

Q. Min-X-Ray Unit, Model H-500, 100 kV/30 mA with 300MS stand .....

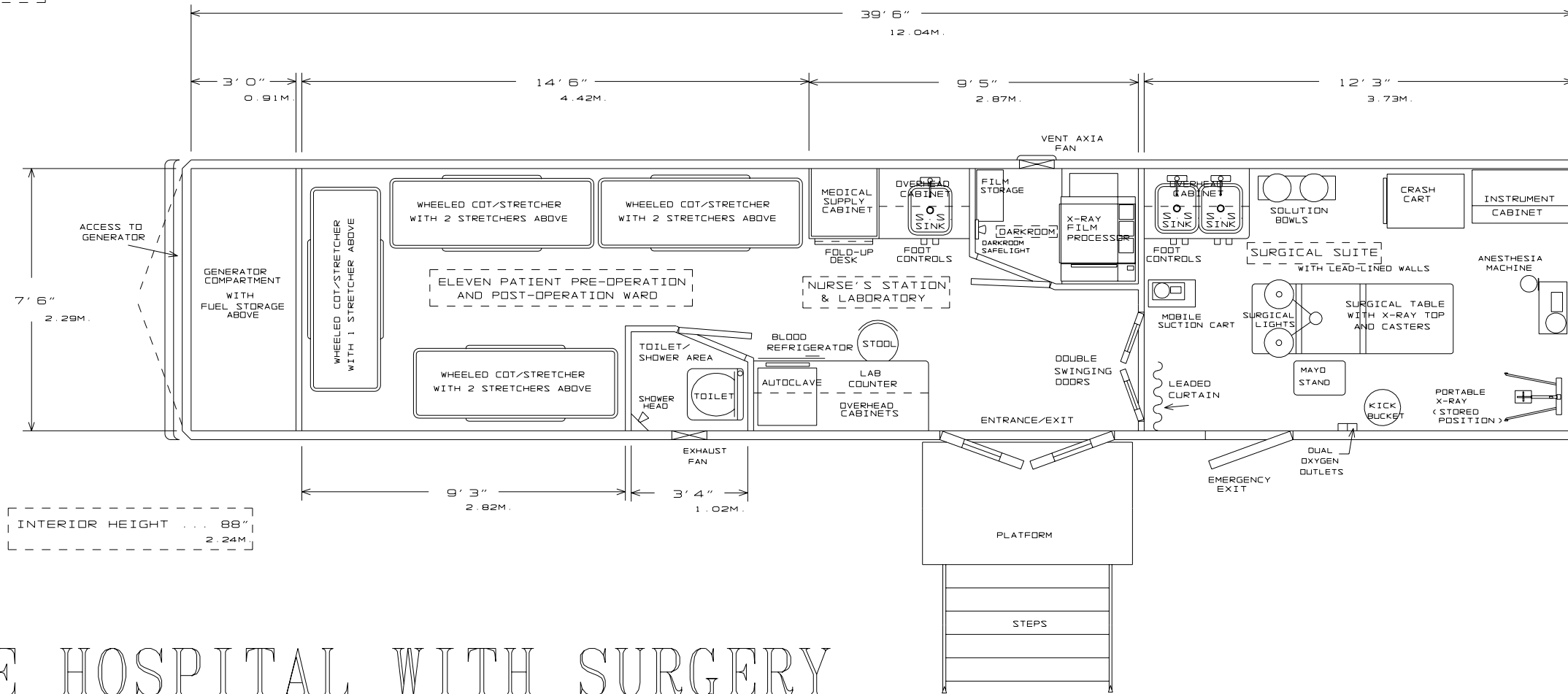
ANGEL



40-FOOT SEMI-TRAILER

"ANGEL"

OVERALL LENGTH ... 40' 6"  
 OVERALL WIDTH ... 8' 0"  
 OVERALL HEIGHT ... 13' 6"



INTERIOR HEIGHT ... 88"  
 2.24M

# MOBILE HOSPITAL WITH SURGERY & ELEVEN (11) BED WARD

ISO 9001 CERTIFIED		CODE IDENT NO. 54409	MEDICAL COACHES INC. ONEONTA, NEW YORK, U.S.A.
"NOTICE This drawing and the data thereon shall not be duplicated, used or disclosed to others for procurement or manufacturing purposes, except as otherwise authorized by contract, without written permission of MEDICAL COACHES INC. All reproductions shall bear this notice.		"ANGEL" MOBILE HOSPITAL WITH SURGERY & ELEVEN (11) BED WARD	
		DATE 4 MAY 1992	JOB NAME
		DRAWN BY ATC	JOB NO.
		CHECKED BY _____	DWG. NO. 3245
APPROVED BY GAS	SCALE 1/4" = 1' 0"		
REV.	DESCRIPTION	DATE	
	ALCO 14		



“ANGEL”

Mobile Hospital with Surgery  
and 11-Bed Ward

Print #3245

<u>Approximate Interior Dimensions</u>		
Length .....	39' 6"	(12.04M)
Width .....	7' 6"	( 2.29M)
Height .....	7' 4"	( 2.24M)

1. TRAILER AND BODY CONSTRUCTION:

- A. Trailer shall be a closed van, semi-trailer type, having a tandem axle and equipped with air suspension.
- B. Wheels shall be equipped with 11R22.5 (14 ply) steel belted radial tires.
- C. Dual, 2-speed, vertical lift, front trailer supports with sand pads, lowering mechanisms, and locking device, allowing no movement of the supports once in place, shall be provided as standard equipment. The lift mechanism shall allow the trailer to be raised above the horizontal position.
- D. There shall be sufficient “I” beam crossmembers and other reinforcement pieces to insure that the trailer has adequate strength and rigidity to withstand all road shocks and loading conditions. All chassis fabrication is to be of the highest quality workmanship, assuring extreme durability.
- E. Trailer brakes shall be 16-1/2 by 7-inch, air-operated in conjunction with the tractor brakes, and connected thereto by standard flexible hose connections. The trailer brakes shall set automatically when it is disconnected from the tractor. The braking system shall comply with all applicable federal laws in effect at the time of delivery.
- F. The upper fifth wheel coupler of the trailer shall be of such a size as to completely cover the fifth wheel of the towing tractor when coupled and turned at any angle. The upper fifth wheel coupler shall be adequately reinforced on its upper surface.

080301/1765

1. TRAILER AND BODY CONSTRUCTION: Continued .....

- G. The trailer shall be equipped with a full width, steel rear bumper. The body shall have reflective stripes to give an indication of the width of the trailer. The trailer shall be furnished with mud flaps.
- H. General body wall construction shall consist of roll-formed “C” channels, 8.625 inch high by 1.75 inch deep, 3003-H14 aluminum alloy, .080 inch thick. The channels shall run horizontally the entire length and width of the unit and shall be secured to aluminum corner posts, roof rail and lower rail using 3/16-inch brazier head aluminum rivets. Finished exterior body surfaces shall be smooth with no rivets.
- I. The roll-formed “C” channels shall comprise the exterior body sides and end panels. The channels shall be fastened together along their full length with Plexus, or equal, high-performance adhesive specially designed for metal bonding (same as widely used in transportation, marine, and aviation industries). The bond formed has a tensile strength of approximately 2,500 PSI (strain-to-failure ration greater than most commercial mechanical fasteners); temperature resistance range of -67° F to +250° F; chemical resistance; high-fatigue endurance; and impact resistance.
- J. Each wall section shall be reinforced with vertical aluminum members, which are welded on a minimum of 48-inch centers.
- K. The roof carlines shall be aluminum extrusions, 6063-T6 alloy, which shall be welded to the roof rail on 16-inch centers. The roof assembly shall consist of a one-piece, .040-inch aluminum roof. Roof panel to be secured around perimeter with adhesive and 3/16-inch brazier head aluminum rivets to aluminum extruded roof rail.
- L. All window and door openings shall be framed with welded aluminum structures and gusseted to prevent torsional twisting. Heavy-gauge metal tapping plates shall be installed between frame members to secure heavy wall-mounted equipment as per custom body floor plan. Around perimeter of interior body at ceiling, an integral part of roof rail is provided to secure ceiling, side panels and overhead cabinets. At ceiling, there shall be installed tapping plates to permit positive securing of light fixtures.
- M. Floor crossmembers shall be 4-inch deep trailer “T” beams spaced on 16-inch centers.



2. INSULATION:

Body shall be insulated on sides, ends, floor and ceiling with foamed-in-place urethane. Insulation offers optimum environmental protection; adds support to sides, ends and roof; prevents entrance of moisture; and acts as a sound retardant. (Minimum: R-12).

3. WALLS AND CEILING:

- A. The interior walls shall be lined for full width and length with 1/4-inch thick laminated formica panels. Panels shall be secured with joiners, edgings and moldings specifically designed for this purpose.
- B. Ceiling shall be surfaced with NUDO Products, FiberCorr, or equal, ceiling panels, consisting of .090-inch FRP overlay laminated to a corrugated plastic core.

4. FLOOR:

- A. Between cross sills, secure 26-gauge galvanized sheet to fully enclose floor area. Above cross sills, secure 3/4-inch thick plywood which is laminated on both sides with fiberglass-reinforced-plastic panels. The panel edges to be treated with edge-sealer for water resistance. Underside of floor panels exposed to road shall be sprayed with Quaker Koat, or equal, sound-deadening undercoating.
- B. Floor shall be surfaced with Armstrong, or equal, heavy-duty cushioned vinyl linoleum.

5. PAINTING PROCEDURES:

- A. Body exterior shall be thoroughly cleaned, sanded and primed with PPG urethane primer. Body shall be painted with two (2) coats of PPG polyurethane topcoat, one color of buyer’s choice.
- B. Steel structural trailer chassis undercarriage shall be painted black.
- C. Body shall be undercoated with Quaker Koat, or equal.

6. ENTRANCE/EXIT DOOR(S):

- A. Doors shall be corrosion-immune, constructed of fiberglass-reinforced plastic (FRP) with solid polymer reinforcement. Shall be insulated with structural urethane and close on dust-sealing neoprene extrusions. Door(s) shall include safety-glass window with designer venetian blinds. Door latch shall be a heavy-duty, L-series mortise latch with keyed deadbolt lock meeting ANSI A156.13 requirements. Hinges shall be stainless steel, strap type. Suitable safety steps and grab handles shall be installed at door locations.
- B. One (1) emergency exit door in Surgical Room to be provided.
- C. One (1) main entrance/exit door to be provided. One (1) double-opening door for use during transit. One (1) sliding door for use during operation mode to reduce loss of heat and/or air conditioning during stretcher loading/unloading.

7. PLATFORMS AND STAIRWAYS:

There shall be provided at curbside entrance/exit door(s) an aluminum safety-tread platform. Platform shall be secured in extended position with removable legs directly to ground. Provide lightweight portable stairs equipped with 6-inch adjustable neoprene feet. Provide removable safety rails at platforms and stairs.

8. WINDOWS:

Install Hehr, or equal, sliding safety-glass windows with insect screens within body sides. All windows shall be equipped with designer venetian blinds of appropriate color to complement interior décor.

9. ELECTRICAL SYSTEM:

Unit shall be wired to receive 4-wire, 120/240-volt, 60-Hertz, AC, single-phase, 100-amp power from generator or local power source via lead-in cable. Necessary wiring shall be provided for operation of 120/240-volt equipment where indicated.

10. WIRING:

- A. All trailer wiring shall be NEC standard conduit with stranded wire or plastic jacketed, non-metallic sheathed cable with ground. Wiring and related devices shall be installed in a workmanlike manner, mechanically and electrically secure. Items requiring periodic service shall be readily accessible and serviceable. Wiring shall be protected by grommets when passing through structural members.
- B. Circuit breakers panel(s) of adequate capacity shall be installed at appropriate locations within body and shall include:
  - 1. Individual 120-volt circuits for utility equipment, lights, air conditioning and receptacles.
  - 2. 240-volt for electric heating units.
- C. Duplex receptacles shall be provided in convenient locations within body interior to conform to National Electric Code.
- D. Provide 50-foot, 4-wire lead-in cable with waterproof receptacle on one end and alligator clips on other end for connection to 120/240-volt power source. Cable shall be sized to unit capacity.

11. LIGHTING:

- A. Fluorescent lights in standard 1-, 2-, or 4-tube fixtures shall be surface-mounted on interior body ceiling within plastic diffuser panels or beneath cabinets above work surfaces. Diffusers shall be equipped with latching device to prevent falling in transit.
- B. 12-volt dome lights shall be provided at each door entrance and within exterior body compartments.
- C. Install a floodlight on unit exterior at each door entrance. Floodlight shall be controlled by interior switch.

12. GENERATOR/GENERATOR COMPARTMENT: (Diesel Generator)
- A. Compartment shall be accessible from the rear via hinged, louvered doors equipped with flush-mounted locks and holders in open position. Expanded metal grilles shall be installed at curb and street sides. Hinged panels shall be provided over the grille areas.
  - B. Compartment shall be separated from remainder of trailer by floor-to-ceiling, insulated partition. Partition shall be framed with aluminum members and surfaced on the generator side with aluminum sheet.
  - C. Provide a 30 kilowatt Detroit Diesel, or equal, 120/240-volt, 60 Hertz, single-phase, 4-wire, liquid-cooled diesel generator. Generator shall be shock-mounted and equipped with remote controls, starting battery, critical area silencer, AC instrument package, and air cleaner. Generator shall be installed for easy servicing, proper heat and exhaust dissipation, and connected to installed tank for fuel supply
  - D. Generator shall be hard-wired to a three-position, manual transfer switch to change power input from generator to local power source, if available.
  - E. Flexible, stainless steel, seamless tubing shall be installed between the generator manifold and the inlet of the critical area silencer.
  - F. A remote start/stop switch shall be installed. The power shall be fed from the transfer switch through a 100-amp circuit breaker box. One (1) 12-volt dome light shall be installed in the ceiling of the compartment.
  - G. A 100-gallon fuel tank, with gauge, shall be installed within trailer skirt.
  - H. Inside of generator compartment shall be lined with TUF-COTE, or equal, noise barrier material.
  - I. Install a remote meter panel to include AC ammeter, meter switch, voltmeter, and frequency meter.

12. AIR CONDITIONING/HEATING:

- A. Install five (5) Coleman, or equal, roof-mounted air conditioners with electric resistance heat strip within reinforced roof section. Units shall be rated at 13,500 BTU cooling and 5,600 BTU heating; 120-volt.
- B. Due to the critical nature of proper environmental control in field surgical units, five (5) roof-mounted air conditioning/heating units shall be utilized: two (2) in surgical area, one (1) in nurse/receiving area, and two (2) in Pre-Op/Post-Op area. Air conditioning capacity is approximately fifty percent (50%) greater than necessary. Each air conditioning unit operates independently allowing for alternates to function should one unit fail and need repair.

14. PLUMBING:

- A. The plumbing system shall be designed to receive water directly from local sources or from the installed tank. Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily and without undue noise. All water piping shall be subjected to adequate water and pressure tests to determine leakage or loss in pressure.
- B. The plumbing system shall include:
  - 1. One (1) 40-gallon fresh water tank,
  - 2. One (1) 50-gallon wastewater tank with hose connection,
  - 3. One (1) Flojet, or equal, 120-volt heavy-duty water pump,
  - 4. One (1) 10-gallon electric water heater.
- C. The fresh water tank shall be installed within an insulated underbody skirt compartment accessible through a hinged door with flush-mounted lock and holding device for door in open position. Compartment shall be provided with electric heater for winter protection against freezing.
- D. Fresh water tank shall be connected to water heater and water faucet at sink by high pressure, polybutylene tubing.
- E. Plumbing system shall be equipped with check valves in accordance with approved commercial practice.
- F. Provide one (1) 50-foot water hose and one (1) wastewater hose. Hoses to be different sizes to prevent intermix.
- G. Install a dispenser for folding paper towels at each sink location.
- H. Waste water shall drain to waste tank or hose connection through corrosion-resistant PVC tubing.
- I. Unit shall be equipped with a water pressure regulator and removable filter trap at water inlet.

15. INTERIOR FURNISHINGS:

A. Surgical Operating Room:

1. Accessible through double-swinging doors equipped with locking device on both sides. Doors shall be equipped with an aluminum kick-scuff plate on both sides at bottom. Aluminum, stainless steel, or chrome hand push plates shall be provided in the upper section of each swing door on both sides.
2. Floor to be anti-static linoleum or tile.
3. One (1) surgical operating table to be all stainless steel with rectangular base, casters for movement and mechanical floor jacks for immobilization, fully hydraulic operated, with arm boards and foot extension. Positions include Trendelenberg, Reverse Trendelenberg, chair, flex, lithotomy, and table. Easily cleaned. Shampaine Surgi-Op 511, or equal, with accessory pack (arm board, leg holders, crutch sockets, anesthesia screen, and foot extension). Table height adjusts from 28-inches to 39-inches.
4. Provide one (1) operating light and one (1) emergency lighting system in case of power failure.
5. Build stainless steel scrub-up sinks within formica surfaced work counter. Shall include hot and cold water mixing faucet energized by foot pedals. Storage cabinet above. Includes soap and scrub brush dispensers.
6. Provide and secure a Harris, or equal, double bowl stainless steel solution stand. Stand mounted on 2-inch conductive soft rubber easy-swivel ball-bearing casters.
7. Provide and secure one (1) Jackson, or equal, kick bucket with a 12-quart stainless steel pail encircled with a conductive rubber bumper. Mounted on ball-bearing conductive rubber casters.
8. Provide and secure an anesthesia system which includes two-gas anesthesia machine with ventilator; absorber; Halothane vaporizer; and gas scavenger. Ventilator includes oxygen, volume, and pressure monitor. Two (2) each “D” size oxygen and nitrous oxide cylinders, shall be provided. FOR USE WITH NON-FLAMMABLE GASES ONLY. SURGICAL ROOM IS NOT EXPLOSION-PROOF.
9. Provide one (1) UMF 2218-5, or equal, lockable drug and supply cabinet with drawers, shelf storage and counter top.
10. Provide and secure a stainless steel Mayo stand and I.V. pole.

15. INTERIOR FURNISHINGS: Continued .....
- A. Surgical Operating Room: Continued .....
11. Provide and secure a Wilson, or equal, stainless steel crash cart. Includes three (3) full-width drawers, nylon rollers, and full-width storage compartment at bottom. Includes stainless steel Mayo attachment, double-hook irrigator rod, adhesive rack, cardiac pressboard, oxygen tank holder, and conductive casters.
12. Oxygen delivery system to include oxygen tank, regulator, gauges, hoses, masks, humidifier, resuscitator, inhalator, and flowmeter. Three (3) 6,000 liter each cylinders installed in under-floor compartment piped to two (2) hospital outlets in surgical room. Includes remote gauge for contents monitoring.
13. Within curbside wall install emergency door to permit removal of stretchers in an emergency.
14. Provide one (1) ARTEMA, Cardio-Aid 100, or equal, defibrillator mounted on shelf. Features include: high intensity display, heart rate read-out, energy selector, lighted indicators, acoustic indications, manual/synchronized selector, ECG screen, ECG input, safety paddles, charging for 360 joules/6 seconds, coiled cables, discharge tester, paper recorder, charger, battery, ECG/telemetry output, and automatic screen freeze control.
15. Wall mount one (1) double x-ray film viewer.
16. Provide Min-X-Ray, H500, portable x-ray unit complete with cone and adjustable light beam collimator.
17. Provide portable surgical suction unit with wheeled cart, collection bottles, catheters, and compressor.
18. Provide one (1) wall-mounted stop clock; one (1) blood pressure apparatus; collection jars; and one (1) oto/ophthalmoscope.



15. INTERIOR FURNISHINGS: Continued .....

B. Darkroom:

1. Shall be fully enclosed by floor-to-ceiling partition. Accessible through hinged light-tight door with light-tight louver in lower section.
2. Build in formica surfaced counter for mounting of automatic x-ray film developer.
3. Wall-mounted safe-light.
4. Install darkroom light-proof vent-axia fan in streetside wall.
5. Provide one (1) film storage cabinet.
6. Provide one (1) compact tabletop automatic film processor. Can process up to sixty (60) 14-inch by 17-inch films/hour. Water consumption one-half gallon per minute in operational mode (1.9 liters per minute). Water temperature range 40 degrees to 90 degrees F (6 degrees to –32 degrees C).
7. Provide one (1) wall-mounted x-ray viewer.

C. Nurses Station:

1. Provide stainless steel sink with foot controls, hot and cold water mixing faucet, formica counter, and storage above.
2. Provide full-height medical supply cabinet with lockable narcotics section, multiple shelf and drawer storage.
3. Provide fold-up writing desk.
4. Provide one (1) 102-unit first aid kit (list attached).
5. Provide one (1) Doctor’s Drug Administration Kit.

15. INTERIOR FURNISHINGS: Continued .....

D. Laboratory Area:

1. Provide formica surfaced laboratory counter with storage below.
2. Install underneath counter one (1) Jewett Model CT-1, or equal, blood bank refrigerator. Includes visual chart temperature recorder and audible alarm. Capacity sixty (60) 450 m. bags.
3. Provide one (1) MDT Castle, GLS-10V, or equal, tabletop steam sterilizer.
4. Provide one (1) Fisher, Micromaster EH, or equal, binocular lab microscope with glass slides and slide covers.
5. Provide one (1) clinical centrifuge.
6. Provide one (1) small portable Bunsen burner with five (5) spare bottles and one (1) stand.
7. Provide glassware to include test tubes, centrifuge tubes, beakers, and pipettes.
8. Provide one (1) lab balance.
9. Provide one (1) serological water bath.

E. Toilet/Shower Room:

1. Fully enclosed with waterproof partitions and door.
2. Chemical flush toilet with holding tank and dump valve, plus hose.
3. Provide wall vent – power with cover.
4. Provide wall-mounted shower head with hot and cold mixing valve.
5. Provide toilet paper dispenser with waterproof cover.
6. Provide soap tray.

15. INTERIOR FURNISHINGS: Continued .....

F. Pre-Operation/Post-Operation 11-Bed Ward Area:

1. Provide four (4) Ferno Model 30, or equal, wheeled all-level cots. Includes 3-inch mattress, contour and Trendelenburg features, wheels, handles, and wall mount.
2. Above each of the three (3) wall cots shall be mounted two (2) Ferno Model 108-AF folding canvas pole-type stretchers. Shall be placed on hinged wall-mounted brackets. Total six (6) stretchers.
3. Above one (1) rear-mounted cot shall be installed one (1) Ferno Model 108-AF folding canvas pole stretcher.
4. Above each of four (4) wheeled cots shall be installed one (1) hospital oxygen outlet and one (1) hospital suction outlet. Includes four (4) each flowmeters, humidifiers, masks, suction jars, gauges, and catheters. Also install four (4) hinged wall-mounted I.V. bottle holders.

16. MISCELLANEOUS:

- A. Two (2) 25,000-pound minimum capacity, geared leveling jacks with sand pads shall be attached to the main structural members at trailer rear. Jacks shall be designed to limit natural vibration during stationary service and to level the trailer unit.
- B. Two (2) 2-1/2 pound dry chemical fire extinguishers shall be bracketed and installed within body interior.
- C. A series of underbody storage compartments shall be provided. Accessible through hinged doors with holding devices and flush-mounted chromed locks.
- D. Install coat hooks at convenient locations within body interior.
- E. Provision shall be made for securing all equipment during operational transit.
- F. Two (2) copies of Medical Coaches' Operator's Manual shall be provided. Shall include one (1) set of supporting manuals covering supplied items such as chassis, generator, air conditioner, etc., if supplied.
- G. Install an access port within the compartment or compartment door of every generator, electrical cable and plumbing compartment allowing the lead-in cable and hoses to be connected to the unit with the main compartment doors closed and locked.
- H. Install sight levels at body side and rear to aid in leveling unit.
- I. Provide battery-powered emergency light in each room that can be activated in case of power shortage.
- J. Provide three (3) portable oxygen resuscitators with two (2) cylinders, case, gauges, masks, hoses, and demand valves.
- K. Provide portable air purifier for surgical room and Pre/Post-operation areas.
- L. Provide one (1) spare Ferno Model 108-AF folding canvas stretcher.
- M. Provide four (4) portable flashlights in case of power failure.

17. BODY EQUIPMENT:

All vehicle lights, reflectors, markings and wiring systems shall be in conformance with D.O.T. Safety Regulations and State laws. The system shall be 12-volt. Lights shall not be mounted on rub rails or vehicle bumper. An illuminated rear license plate holder shall be furnished. Exterior lights shall be LED.

18. SPECIAL REQUIREMENTS:

- A. Details concerning colors, exterior painting, and lettering, etc., plus delivery of completed unit to be arranged at a later date in accordance with buyer's wishes.
- B. Due to variances in State and Local regulations, there may be some additional options required for individual compliance. If compliance necessitates extra-cost options, they will be quoted separately as necessary.

19. LIMITED WARRANTY:

Medical Coaches Incorporated offers a limited warranty on the mobile unit for twelve (12) months or 12,000 miles. The warranty includes all equipment supplied by Medical Coaches except those items which are covered by a separate warranty.

A detailed warranty statement shall be provided upon purchase or upon request.

OPTIONAL ITEMS :

CHECK IF  
DESIRED:

- A. Lettering exterior body at sides, front and rear to buyer’s order (Special artwork and emblems at extra cost.) .....
- B. Paint body two-tone instead of standard one color .....
- C. Install a BRAUN, or equal, hydraulic wheelchair lift within vehicle .....
- D. Spare tire, tube, wheel with under-slung carrier .....
- E. Unit to be wired for 50-Hertz service (Export Only):
  - 1. Generator to be de-rated to produce 220-volt, 50-Hertz, AC, 2-wire power. Includes grounding rod with chain. All electrical equipment within body to be equipped for 50-Hertz service .....
  - 2. If any 110-volt equipment is to be installed, provide a 3,000-watt step-down transformer and connections to 110-volt receptacles .....
- F. Lead-in Cable: Basic unit is equipped with a 50-foot lead-in cable. Provide an additional 50-foot cable with waterproof connectors at both ends to provide 100-foot lead-in cable between unit and local power supply .....
- G. In order to permit the use of local power at specified locations, provide a waterproof receptacle with cover and back box for installation in building .....
- H. Provide a 5-foot pigtail with connector on one end and alligator clips on the other end, for use in locations where no installed receptacle is available, if “G” above is provided .....
- I. If option “H” above is provided, install matching 100 amp, reverse-service, waterproof connector on end of lead-in cable in place of alligator clips .....
- J. In-Transit Power: Install an auxiliary 6.5-kilowatt, 120/240-volt generator within an insulated compartment. Generator shall provide electrical power to operate refrigerator, lights, and one (1) heater in-transit. Generator shall include vacuum cooling, low oil pressure cut-off, starting battery, critical area silencer and running time meter. Compartment shall include hinged doors equipped with flush-mounted lock and ventilating grilles. Generator shall be connected to installed 20-gallon fuel tank .....
- K. Install master intercom system throughout mobile unit .....
- L. Provide a stereo AM/FM radio/compact disc player connected to overhead speaker system. Includes body-mounted antenna .....
- M. 35-item tool kit contained in metal carrying case .....

- N. 24-unit first aid kit with all necessary bandages, antiseptics and burn ointments contained in a steel box .....
- O. Trauma Kit II, trauma/first aid kit, approximately 100 items. (List available upon request.) .....
- P. Towing Tractor: As per attached specification. Price upon request .....







“VICTOR”

Mobile Field Hospital

Print #3506

Approximate Interior Dimensions

Length .....	52' 6" (16.00M)
Width .....	11' 6" ( 3.51M)
Height .....	7' 6" ( 2.29M)

1. TRAILER AND BODY CONSTRUCTION:

- A. Trailer shall be a main frame, drop bed, closed van semi-trailer having a tandem axle and equipped with an air suspension.
- B. Wheels shall be equipped with 225-70R 22.5, low profile steel belted radial tires.
- C. Dual, 2-speed, vertical lift, front trailer supports with sand pads, lowering mechanisms, and locking device, allowing no movement of the supports once in place, shall be provided as standard equipment. The lift mechanism shall allow the trailer to be raised above the horizontal position.
- D. There shall be sufficient “I” beam crossmembers and other reinforcement pieces to insure that the trailer has adequate strength and rigidity to withstand all road shocks and loading conditions. All chassis fabrication is to be of the highest quality workmanship, assuring extreme durability.
- E. Trailer brakes shall be 16-1/2 by 7-inch, air-operated in conjunction with the tractor brakes, and connected thereto by standard flexible hose connections. The trailer brakes shall set automatically when it is disconnected from the tractor. The braking system shall comply with all applicable federal laws in effect at the time of delivery.
- F. The upper fifth wheel coupler of the trailer shall be of such a size as to completely cover the fifth wheel of the towing tractor when coupled and turned at any angle. The upper fifth wheel coupler shall be adequately reinforced on its upper surface.

051501/2092

1. TRAILER AND BODY CONSTRUCTION: Continued .....

- G. The trailer shall be equipped with a full width, steel rear bumper. The body shall have reflective stripes to give an indication of the width of the trailer. The trailer shall be furnished with mud flaps.
- H. General body wall construction shall consist of roll-formed “C” channels, 8.625 inch high by 1.75 inch deep, 3003-H14 aluminum alloy, .080 inch thick. The channels shall run horizontally the entire length and width of the unit and shall be secured to aluminum corner posts, roof rail and lower rail using 3/16-inch brazier head aluminum rivets. Finished exterior body surfaces shall be smooth with no rivets.
- I. The roll-formed “C” channels shall comprise the exterior body sides and end panels. The channels shall be fastened together along their full length with Plexus, or equal, high-performance adhesive specially designed for metal bonding (same as widely used in transportation, marine, and aviation industries). The bond formed has a tensile strength of approximately 2,500 PSI (strain-to-failure ration greater than most commercial mechanical fasteners); temperature resistance range of -67° F to +250° F; chemical resistance; high-fatigue endurance; and impact resistance.
- J. Each wall section shall be reinforced with vertical aluminum members, which are welded on a minimum of 48-inch centers.
- K. The roof carlines shall be aluminum extrusions, 6063-T6 alloy, which shall be welded to the roof rail on 16-inch centers. The roof assembly shall consist of a .040-inch aluminum roof. Roof panels to be secured around perimeter with adhesive and 3/16-inch brazier head aluminum rivets to aluminum extruded roof rail.
- L. All window and door openings shall be framed with welded aluminum structures and gusseted to prevent torsional twisting. Heavy-gauge metal tapping plates shall be installed between frame members to secure heavy wall-mounted equipment as per custom body floor plan. Around perimeter of interior body at ceiling, an integral part of roof rail is provided to secure ceiling, side panels and overhead cabinets. At ceiling, there shall be installed tapping plates to permit positive securing of light fixtures.
- M. Floor crossmembers shall be 4-inch deep trailer “T” beams spaced on 16-inch centers.

2. INSULATION:

Body shall be insulated on sides, ends, floor and ceiling with foamed-in-place urethane. Insulation offers optimum environmental protection; adds support to sides, ends and roof; prevents entrance of moisture; and acts as a sound retardant. (Minimum: R-12).

3. WALLS AND CEILING:

- A. The interior walls shall be lined for full width and length with ¼-inch thick laminated formica panels. Panels shall be secured with joiners, edgings and moldings specifically designed for this purpose.
- B. Ceiling shall be surfaced with NUDO Products, FiberCorr, or equal, ceiling panels, consisting of .090-inch FRP overlay laminated to a corrugated plastic core.

4. FLOOR:

- A. Between cross sills, secure 26-gauge galvanized sheet to fully enclose floor area. Above cross sills, secure ¾-inch thick plywood which is laminated on both sides with fiberglass-reinforced-plastic panels. The panel edges to be treated with edge-sealer for water resistance. Underside of floor panels exposed to road shall be sprayed with Quaker Koat, or equal, sound-deadening undercoating.
- B. Floor shall be surfaced with Armstrong, or equal, heavy-duty cushioned vinyl linoleum.
- C. Floor in Surgical Room shall be surfaced with Armstrong, or equal, anti-static tile or linoleum.

5. PAINING PROCEDURES:

- A. Body exterior shall be thoroughly cleaned, sanded and primed with PPG urethane primer. Body shall be painted with two (2) coats of PPG polyurethane topcoat, one color of buyer's choice.
- B. Steel structural trailer chassis undercarriage shall be painted black.
- C. Body shall be undercoated with Quaker Koat, or equal.

6. ENTRANCE/EXIT DOOR(S):

Doors shall be corrosion-immune, constructed of fiberglass-reinforced plastic (FRP) with solid polymer reinforcement. Shall be insulated with structural urethane and close on dust-sealing neoprene extrusions. Door(s) shall include safety-glass window with designer venetian blinds. Door latch shall be a heavy-duty, L-series mortise latch with keyed deadbolt lock meeting ANSI A156.13 requirements. Hinges shall be stainless steel, strap type. Suitable safety steps and grab handles shall be installed at door locations.

7. PLATFORMS AND STAIRWAYS:

There shall be provided at curbside entrance/exit door(s) an aluminum safety-tread platform. Platform shall be secured in extended position with removable legs directly to ground. Provide lightweight portable stairs equipped with 6-inch adjustable neoprene feet. Provide removable safety rails at platforms and stairs.

8. WINDOWS:

Install Hehr, or equal, sliding safety-glass windows with insect screens within body sides. All windows shall be equipped with designer venetian blinds of appropriate color to complement interior décor.

9. ELECTRICAL SYSTEM:

Unit shall be wired to receive 4-wire, 120/240-volt, 60-Hertz, AC, single-phase, 200-amp power from generator or local power source via lead-in cable. Necessary wiring shall be provided for operation of 120/240-volt equipment where indicated.

10. WIRING:

- A. All trailer wiring shall be NEC standard conduit with stranded wire or plastic jacketed, non-metallic sheathed cable with ground. Wiring and related devices shall be installed in a workmanlike manner, mechanically and electrically secure. Items requiring periodic service shall be readily accessible and serviceable. Wiring shall be protected by grommets when passing through structural members.
- B. Circuit breakers panel(s) of adequate capacity shall be installed at appropriate locations within body and shall include:
  - 1. Individual 120-volt circuits for utility equipment, lights and receptacles.
  - 2. 240-volt for air conditioning and electric heating units.
- C. Duplex receptacles shall be provided in convenient locations within body interior to conform to National Electric Code.
- D. Provide 50-foot, 4-wire lead-in cable with waterproof receptacle on one end and alligator clips on other end for connection to 120/240-volt power source. Cable shall be sized to unit capacity.

11. LIGHTING:

- A. Fluorescent lights in standard 1-, 2-, or 4-tube fixtures shall be surface-mounted on interior body ceiling within plastic diffuser panels or beneath cabinets above work surfaces. Diffusers shall be equipped with latching device to prevent falling in transit.
- B. 12-volt dome lights shall be provided at each door entrance and within exterior body compartments.
- C. Install a floodlight on unit exterior at each door entrance. Floodlight shall be controlled by interior switch.
- D. Three (3) battery-operated emergency lights shall be installed within trailer. Lights to operate in case of power failure. Batteries to be rechargeable. Light fixtures to be equipped with on/off switch to prevent battery failure during transit or storage condition.

12. DIESEL-POWERED GENERATOR:

At front of trailer, install one (1) 70-kilowatt diesel electrical generator mounted on open tread-plate platform. Features to include: 4 cylinder diesel engine for high efficiency, long term operation; starting battery and starting motor; air filters (heavy-duty for high duct/sand conditions); governor; lubrication system (internal pump); solenoid fuel pump; water temperature, oil pressure, battery charger, and ammeter gauges; critical area silencing muffler; alarm circuitry for low oil pressure and water temperature shut-off; frequency meter; voltage meter; and running time meter. Entire unit shock-mounted on shear vibration isolators and includes weather-proof enclosure. 200-gallon fuel supply allows for approximately 90 hours of independent operation. Fuel supply provided by separate tank mounted behind generator.

13. AIR CONDITIONING/HEATING/VENTILATION:

- A. There shall be installed at the front of the mobile unit two (2) Bard, or equal, 36,600 BTU cooling and 17,065 BTU heating, 230/208-volt, 60 Hertz, single-phase air conditioning units. Units shall be properly framed and connected to a metal duct installed between the roof and the ceiling. Duct shall be insulated and shall include adjustable air diffusers. Units shall be thermostatically controlled. Condensate shall be dispensed via flexible tubing from air conditioners to ground.  
Cooling capacity: 73,200 BTU total.  
Heating capacity: 34,130 BTU total.
- B. Install four (4) thermostatically controlled, electric blower heaters throughout the body interior. Each heater rated at a minimum of 3,400 BTU.
- C. Install a power exhaust fan within exterior wall of Restroom.
- D. Within exterior wall of Darkroom, install a Vent-Axia, or equal, darkroom exhaust fan.

14. PLUMBING:

- A. The plumbing system shall be designed to receive water directly from local sources or from the installed tank. Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily and without undue noise. All water piping shall be subjected to adequate water and pressure tests to determine leakage or loss in pressure.
- B. The plumbing system shall include:
  - 1. One (1) 100-gallon fresh water tank,
  - 2. One (1) 40-gallon black water waste tank with hose connection,
  - 3. One (1) 60-gallon gray water waste tank with hose connection,
  - 4. One (1) Flojet, or equal, 120-volt heavy-duty water pump,
  - 5. One (1) 6-gallon electric water heater.
- C. The fresh water tank shall be installed within an insulated rear compartment accessible through a hinged door with flush-mounted lock and holding device for door in open position. Compartment shall be provided with electric heater for winter protection against freezing.
- D. Fresh water tank shall be connected to water heater and water faucet at sink by high pressure, polybutylene tubing.
- E. Plumbing system shall be equipped with check valves in accordance with approved commercial practice.
- F. Provide one (1) 50-foot water hose and two (2) waste water hoses. Hoses to be different sizes to prevent intermix.
- G. Install a dispenser for folding paper towels at each sink location.
- H. Waste water shall drain to waste tank or hose connection through corrosion-resistant PVC tubing.
- I. Unit shall be equipped with a water filter with replaceable filter element.

15. OXYGEN/SUCTION/MEDICAL AIR SYSTEMS:

A. Oxygen System:

1. Two (2) “E” size oxygen tanks shall be installed in rear mechanical room. Cylinders shall be equipped with manifold, regulators, and gauges as required.
2. Oxygen shall be piped to outlets in Post-Op Area and Surgical Room through hospital grade tubing.

B. Medical Air System:

1. Two “E” size air tanks shall be installed in rear compartment. Cylinders shall be equipped with manifold, regulators, and gauges as required.
2. Air shall be piped to Post-Op Area and Surgical Room through hospital grade, high pressure tubing.

C. Suction System:

1. Install one (1) E.M.S.E., or equal, dual head vacuum pump within rear compartment.
2. Vacuum piping shall be directed to outlets located in Post-Op Area and Surgical Room.



16. INTERIOR FURNISHINGS:

A. Pre-Op and Post-Op Room:

1. Shall be separated from remainder of trailer by floor-to-ceiling partition with access through ceiling-mounted draw curtain.
2. At the head of each bed build in a formica surfaced shelf.
3. Above shelves install overhead storage cabinets with hinged door access.
4. Each intensive care bed shall be enclosed by a hospital-type privacy curtain.
5. Install an oxygen, suction, and medical air outlet at the head of each bed.
6. Provide tapping plates, securing devices, and electrical connections for proper installation of beds and hospital equipment.

B. Restroom:

1. Shall be enclosed by floor-to-ceiling partition with access through hinged door.
2. Install Thetford, Aqua-Magic, or equal, self-contained flush toilet.
3. Install a stainless steel sink with hot and cold water faucet.
4. Provide toilet accessories, to include: mirror, coat hooks, paper towel holder, and toilet paper holder.
5. Install 120-volt power exhaust vent within exterior wall.
6. Install fiberglass shower stall with water-saver showerhead. Access through shower curtain from toilet area.

16. INTERIOR FURNISHINGS: Continued .....

C. Darkroom:

1. Room shall be fully enclosed by floor-to-ceiling partition with access through hinged door with light-tight louver in lower section.
2. Build in formica surfaced work counter with storage under.
3. Above counter install overhead storage cabinets with hinged door access.
4. Install Vent-Axia, darkroom fan within exterior wall.
5. Install darkroom safelight on wall above developer.
6. Install Bar-Ray, or equal, tilt x-ray film storage cabinet.
7. Provide tapping plates, securing devices, electrical connections and plumbing connections for proper installation of x-ray film processor.

D. Lab Area:

1. Build in formica surfaced laboratory counter with storage under counter.
2. Above counter install overhead storage cabinets with hinged door access.
3. Provide tapping plates, securing devices, and electrical connections for proper installation of laboratory equipment.
4. Provide and secure an upholstered, castored laboratory stool with backrest.

E. Nurse Station:

1. Provide a formica surfaced desk section with center drawer.
2. Above desk install an overhead storage cabinet with hinged door access.
3. Provide and secure an upholstered, castored secretarial stool with backrest.
4. Provide and secure two (2) upholstered chairs outside of Darkroom.

16. INTERIOR FURNISHINGS: Continued .....

F. Surgical Room:

1. Room shall be enclosed by floor-to-ceiling partition with access through double swinging doors with latching device on both sides. Doors shall be equipped with an aluminum scuff plate on both sides at bottom. Polished aluminum hand push plates shall be installed on each side of each door.
2. Exterior walls, floor, and partition shall be lead-lined in accordance with USFDA requirements.
3. Install a leaded curtain to cover swinging door opening. (Doors shall not be leaded.)
4. Build in formica surfaced counter. Within counter, install two (2) stainless steel scrub sinks with hot and cold water faucets. Sinks to have gooseneck faucets with foot pedal controls.
5. Install scrub brush dispenser and hand soap dispenser on wall above sinks.
6. Across front wall build in floor-to-ceiling storage closets. The center closet shall be accessible through hinged door and shall house the electrical distribution panel(s). The streetside section shall be equipped with adjustable shelves and have access through louvered, folding doors. The curbside section shall have a coat bar and shall also be accessible through louvered, folding doors.
7. Install two (2) oxygen outlets, two (2) suction outlets, and one (1) medical air outlet on streetside wall.
8. Provide tapping plates, securing devices, and electrical connections for proper installation of surgical equipment.

17. MECHANICAL ROOM:

- A. Utility area shall be provided at body rear with access through exterior door.
- B. Compartment shall be utilized for installation of water inlet, fresh water tank, water heater, water pump, vacuum pump, oxygen bottle manifold system, medical air bottle manifold system, and miscellaneous equipment storage.
- C. Install in compartment a 120-volt light for nighttime illumination. Includes on/off switch.
- D. Provide 240-volt electric fan, blower heater for freeze protection. Heater to be equipped with fan only/fan heater switch to provide compartment ventilation when heat is unnecessary. (Fasco, or equal.)

18. MEDICAL EQUIPMENT:

A. Pre-Op and Post-Op Room:

1. Three (3) Simmons Healthcare, Varicare II, or equal, manual stretcher beds with 4-inch mattress and full length side rail.
2. Two (2) Amedco Healthcare, or equal, manual crank special care beds with inner-spring mattress, mattress cover, and evacuation handles.
3. Five (5) Amedco Healthcare, or equal, automatic lift over-bed tables.
4. Two (2) Transpack, Model 2, or equal, ventilators.
5. Two (2) Propaq 102, or equal, portable patient monitors with LCD screen.
6. One (1) BCI International, Model 3040, or equal, Microspan Pulse Oximeter with patient cable and manual.
7. One (1) Artema, Cardio-Aid 100, or equal, portable defibrillator/ECG monitor with cart and strip recorder.
8. Five (5) Rico, Model RS-4XP, or equal, aspirators.
9. One (1) Baum, or equal, standby baumanometer.
10. One (1) Ferno, Model 60, or equal, aluminum long back board.
11. One (1) deluxe trauma kit.
12. One (1) drug kit.
13. Five (5) flowmeters with Ohio adapter.
14. Five (5) reusable humidifiers.
15. Five (5) hospital suction kits with Ohio adapter.
16. One (1) Health Care Logistics, or equal, stainless steel utility cart.

B. Darkroom:

1. One (1) AGFA, CP1000, or equal, x-ray film processor with two (2) waste bottles, one (1) case of developer, and one (1) case of fixer.
2. One (1) Wolf, or equal, analog lever timer.

18. MEDICAL EQUIPMENT: Continued .....

C. Laboratory:

1. One (1) Jewett, Model CT-1, or equal, blood bank refrigerator with temperature monitor and 7-day recording thermometer.
2. One (1) Milton Roy, Spectronic 20-D, or equal, spectrophotometer.
3. One (1) Instrumentation Laboratory, System 1304, or equal, blood gas analyzer with sample injector and gas regulators.
4. One (1) Baxter, Sysmex F-300, or equal, hematology analyzer with diluter system.
5. One (1) Castle, GLS-10V, or equal, tabletop steam sterilizer.
6. One (1) Fisher, Micromaster I, or equal, binocular microscope.
7. One (1) triple-beam balance with flat platform and tare bar.
8. One (1) auxiliary weight set.
9. One (1) Rh-typing viewer.
10. One (1) agglutination tube viewer.
11. One (1) hematology mixer.
12. One (1) microhematocrit centrifuge with rotor, 240-volt, 60 Hertz.
13. One (1) microcapillary tube reader.
14. One (1) gross microslides, plain glass (75 x 25mm).
15. One (1) pack cover glasses, (22 x 22mm) 4 ounces per pack.
16. One (1) pack Securline Marker II (10 per pack).
17. One (1) pack hematocrit tube sealant (10 per pack).
18. One (1) pack capillary tubes, red (200 per pack).
19. One (1) pack capillary tubes, blue (200 per pack).
20. One (1) pack self-sealing tourniquets (12 per pack).
21. One (1) Autolet Mark II.
22. One (1) pack yellow platforms (200 per pack).
23. One (1) case sample cups (144 per case.)

18. MEDICAL EQUIPMENT: Continued .....

C. Laboratory: Continued .....

24. One (1) urine collection and analysis systems, to include:  
One (1) case collection packs (500 per case),  
One (1) pack Urisystem tubes (500 per pack),  
Two (2) packages Urisystem stain (4 per pack),  
One (1) Urisystem rack,  
One (1) pack Urisystem 10 test slides (100 per pack).
25. One (1) case MIF procedure kit (20 per case).
26. One (1) Flo-Thru total solids meter.
27. One (1) laboratory counter (6 unit).
28. One (1) ultrasonic cleaner, Model FS14.
29. One (1) basket for FS14.

D. Surgical Room:

1. One (1) Champaine, Model 511, or equal, surgical table with the following accessories: anesthesia screen, body restraint strap, Bierhoff knee crutches, and armboard.
2. One (1) Castle, Model 2420C, or equal, minor surgical light.
3. One (1) Bovie Specialist, or equal, electrosurgical unit with cart.
4. One (1) Clifford Mayo stand.
5. One (1) Jackson kick bucket.
6. One (1) double solution stand.
7. Two (2) 4-leg, 2-hook, I.V. stands.
8. One (1) Health Care Logistics, or equal, stainless steel utility cart.
9. One (1) MIE Cavendish 230, or equal, 2-gas anesthetic apparatus with mobile frame, oxygen lines, nitrous oxide lines, and vaporizer.
10. One (1) Waterloo, or equal, 5-drawer emergency cart.
11. One (1) Rico, Model RS-4XP, or equal, aspirator.
12. Two (2) Ambumatic, or equal, automatic resuscitators.

18. MEDICAL EQUIPMENT: Continued .....

D. Surgical Room: Continued .....

13. One (1) flowmeter with Ohio adapter.
14. One (1) reusable humidifier.
15. One (1) hospital suction kit with Ohio adapter.
16. One (1) Artema, Cardio-Aid 100, or equal, portable defibrillator/ECG monitor with cart and strip recorder.
17. One (1) Allied Healthcare, Model 601U, or equal, gastric drainage pump with glass bottle and cart.
18. One (1) General Electric, or equal, mobile x-ray unit.
19. One (1) dual panel, Trimline x-ray film illuminator.
20. One (1) Tri-Pack x-ray apron rack.
21. One (1) Easy-Wrap x-ray apron.
22. One (1) pair Duoflex protective gloves.



19. MISCELLANEOUS:

- A. Two (2) 25,000-pound minimum capacity, geared leveling jacks with sand pads shall be attached to the main structural members at trailer rear. Jacks shall be designed to limit natural vibration during stationary service and to level the trailer unit.
- B. Two (2) 2-1/2 pound dry chemical fire extinguishers shall be bracketed and installed within body interior.
- C. A series of underbody storage compartments shall be provided. Accessible through hinged doors with holding devices and flush-mounted chromed locks.
- D. Install coat hooks at convenient locations within body interior.
- E. Provision shall be made for securing all equipment during operational transit.
- F. Two (2) copies of Medical Coaches' Operator's Manual shall be provided. Shall include one (1) set of supporting manuals covering supplied items such as chassis, generator, air conditioner, etc., if supplied.
- G. Install an access port within the compartment or compartment door of every generator, electrical cable and plumbing compartment allowing the lead-in cable and hoses to be connected to the unit with the main compartment doors closed and locked.
- H. Install sight levels at body side and rear to aid in leveling unit.

20. BODY EQUIPMENT:

All vehicle lights, reflectors, markings and wiring systems shall be in conformance with D.O.T. Safety Regulations and State laws. The system shall be 12-volt. Lights shall not be mounted on rub rails or vehicle bumper. An illuminated rear license plate holder shall be furnished. Exterior lights shall be LED.

21. SPECIAL REQUIREMENTS:

- A. Details concerning colors, exterior painting, and lettering, etc., plus delivery of completed unit to be arranged at a later date in accordance with buyer's wishes.
- B. Due to variances in State and Local regulations, there may be some additional options required for individual compliance. If compliance necessitates extra-cost options, they will be quoted separately as necessary.

22. LIMITED WARRANTY:

Medical Coaches Incorporated offers a limited warranty on the mobile unit for twelve (12) months or 12,000 miles. The warranty includes all equipment supplied by Medical Coaches except those items which are covered by a separate warranty.

A detailed warranty statement shall be provided upon purchase or upon request.

<u>OPTIONAL ITEMS :</u>	<u>CHECK IF DESIRED:</u>
A. Lettering exterior body at sides, front and rear to buyer’s order (Special artwork and emblems at extra cost.) .....	<input type="checkbox"/>
B. Paint body two-tone instead of standard one color .....	<input type="checkbox"/>
C. Install a Braun, or equal, hydraulic wheelchair lift within vehicle .....	<input type="checkbox"/>
D. Spare tire and wheel with underslung carrier .....	<input type="checkbox"/>
E. Heavy-duty electro-hydraulic leveling jacks .....	<input type="checkbox"/>
F. Unit to be wired for 50-Hertz service (Export Only): 1. Generator to be de-rated to produce 220-volt, 50-Hertz, AC, 2-wire power. Includes grounding rod with chain. All electrical equipment within body to be equipped for 50-Hertz service .....	<input type="checkbox"/>
2. If any 110-volt equipment is to be installed, provide a 3,000-watt step-down transformer and connections to 110-volt receptacles .....	<input type="checkbox"/>
G. Lead-in Cable: Basic unit is equipped with a 50-foot lead-in cable. Provide an additional 50-foot cable with waterproof connectors at both ends to provide 100-foot lead-in cable between unit and local power supply .....	<input type="checkbox"/>
H. In order to permit the use of local power at specified locations, provide a Russell & Stoll, or equal, reverse-service, waterproof receptacle with cover and back box for installation in building .....	<input type="checkbox"/>
I. Provide a 5-foot pigtail with connector on one end and alligator clips on the other end, for use in locations where no installed receptacle is available, if “H” above is provided .....	<input type="checkbox"/>
J. If “I” above is provided, install matching 200-amp, reverse-service, waterproof connector on end of lead-in cable in place of alligator clips .....	<input type="checkbox"/>
K. In-Transit Power: Install within an insulated compartment an auxiliary 6.5-kilowatt, 120/240-volt generator. Generator shall provide electrical power to operate refrigerator, lights, and one (1) heater while in-transit. Generator shall include vacuum cooling, low oil pressure cut-off, starting battery, critical area silencer, and running time meter. Compartment shall include hinged doors equipped with flush-mounted lock and ventilating grilles. Generator to be connected to installed 20-gallon fuel tank .....	<input type="checkbox"/>
L. Install master intercom system throughout mobile unit .....	<input type="checkbox"/>
M. Provide a stereo AM/FM radio/compact disc player connected to overhead speaker system. Includes body-mounted antenna .....	<input type="checkbox"/>
N. 35-item tool kit contained in metal carrying case .....	<input type="checkbox"/>

In response to your recent request, we are pleased to enclose a literature package for your review. The drawings and specifications enclosed illustrate several designs for trailer and self-propelled Mobile Dental Clinics that could be used (or modified) to meet the needs of your clients.

If you require a special design, please complete the enclosed Questionnaire and return it with a rough sketch and/or brief description of your proposed layout and equipment requirements. We can then prepare a complete proposal for your use.

The cost of a mobile unit will depend on size, configuration, utility requirements, and equipment requirements. To give you an idea of cost, the following are budgetary prices for several models. These prices do not include the cost of the dental equipment or a towing vehicle for the trailer models.

- |                        |                                |
|------------------------|--------------------------------|
| A. "NORFOLK"           | : \$240,000 to \$250,000.      |
| B. "PRASAD PROJECT II" | : \$275,000 to \$285,000.      |
| C. "GLENS FALLS"       | : \$220,000 to \$235,000.      |
| D. "JEFFERSON COUNTY"  | : \$225,000 to \$240,000.      |
| E. "PONCHARTRAIN"      | : \$240,000 to \$250,000.      |
|                        | (Plus: generator, if required) |
| F. "MT. WHITNEY"       | : \$260,000 to \$275,000.      |
| G. "ON-SITE III"       | : \$285,000 to \$300,000.      |

MEDICAL COACHES' STANDARD PACKAGE

	UNIT COST:	2-CHAIR
<u>CHAIR:</u> A-DEC, Cascade 1040 chair with automatic positioning and return .....	\$7,180.00	\$14,360.00
<u>UNIT:</u> A-DEC, Radius 2122 chair-mounted unit with three (3) automatic handpiece controls and tubing, foot control, adjustable tray, assistant's instrumentation and stainless steel utility center .....	\$6,050.00	\$12,100.00
<u>DENTAL LIGHT:</u> A-DEC, Radius 6300 dental light, unit mounted .....	\$2,460.00	\$4,920.00
<u>STOOLS:</u> A. Doctor's stool: A-DEC, Model 1601 doctor's stool with Integral gas cylinder adjustment and carpet casters .....	\$725.00	\$1,450.00
B. Assistant's stool: A-DEC, Model 1626 assistant's stool with body support, gas cylinder adjustment, with foot rest and carpet casters .....	\$835.00	\$1,670.00
<u>INSTRUMENT CABINET:</u> A-DEC dental unit built in under counter .....	\$750.00	\$1,500.00
<u>AIR COMPRESSOR:</u> Air Techniques, AirStar, oil-less dental air system, 115-volt. (Model 10 for one-chair clinic; Model 21 for two-chair clinic.) Includes sound reducing cover .....	\$3,940.00	\$4,555.00
<u>AUTOCLAVE:</u> Pelton & Crane, Delta XL 10, fully automatic .....	\$4,100.00	\$4,100.00

PACKAGE COST: \$26,040.00 \$44,655.00

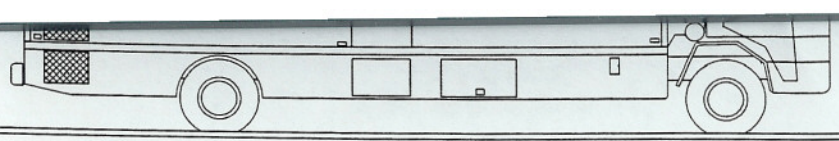


## OPTIONAL DENTAL EQUIPMENT

UNIT  
COST:

<u>A. X-RAY &amp; FILM PROCESSING EQUIPMENT:</u>		
1. GENDEX GX770 wall-mounted x-ray with remote control panel .....		\$4,360.00
2. Air Techniques Peri-Pro III, dental x-ray film processor; including daylight loader .....		\$2,620.00
3. Air Techniques A/T 2000XR automatic film processor for all size films; includes: automatic replenisher.....		\$7,100.00
Panoramic daylight loader .....		\$945.00
4. Dental x-ray film dispenser, Kodak Model 2 .....		\$90.00
5. Dental view box (wall or desk mounted) .....		\$165.00
6. Ceiling-mounted lead curtain for radiation protection; 3 feet wide (Bar-Ray) .....		\$330.00
<u>B. CENTRAL VACUUM SYSTEMS:</u>		
1. A-DEC Air Vacuum System (AVS) with air saliva ejector and oral evacuator hoses. (Operates from air compressor.) <span style="float: right;">Each Chair:</span>		\$1,440.00
2. Dentsply MVS Central Evacuation System, two pump unit .....		\$4,225.00
3. Steri-Dent, STERI-VAC with spare motor, canister, and low voltage relay. (For units without outside water source.) .....		\$2,070.00
<u>C. ADDITIONAL OPTIONS:</u>		
1. A-DEC mobile dental cabinet, Model 2644. Oregon style with sliding top, three shallow drawers and two deep drawers ..		\$1,085.00
2. Dentsply/Cavitron Select, ultrasonic scaler .....		\$1,350.00
3. CAULK, PROMIX, variable speed amalgamator .....		\$750.00

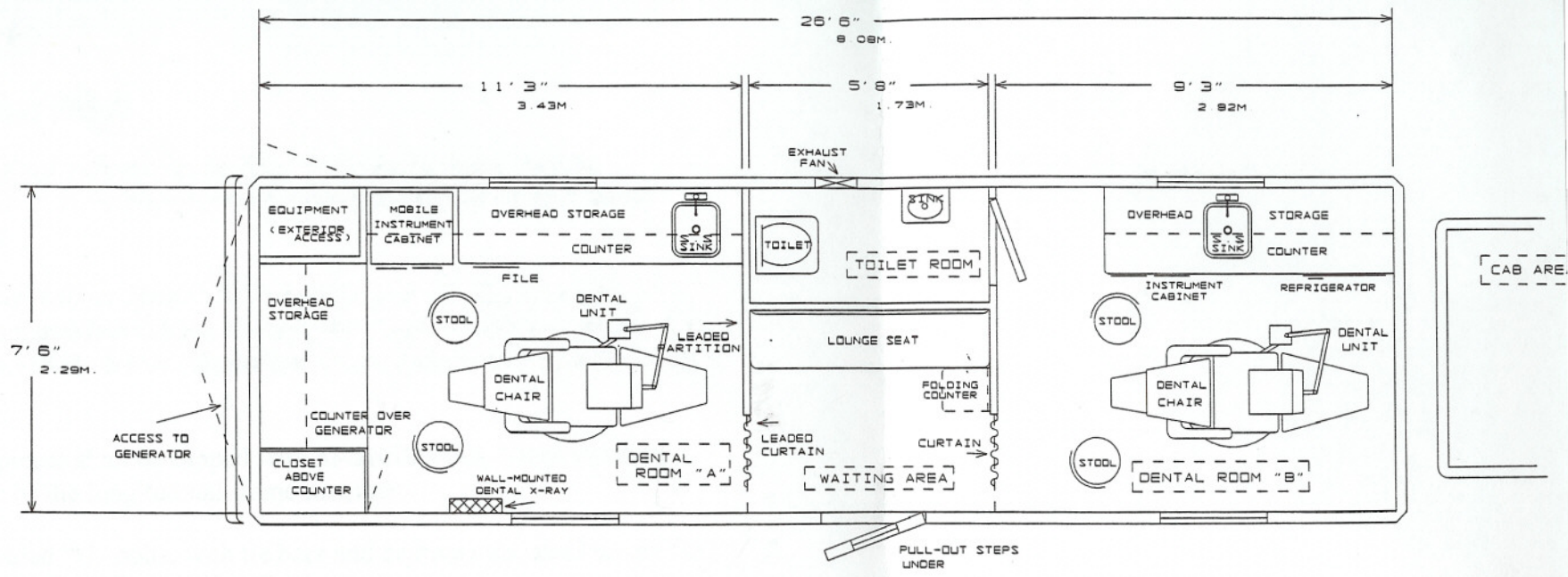
NORFOLK



27-FOOT BODY MOUNTED ON A TILT-CAB CHASSIS

( FOR UNITED ST

OVERALL LENGTH ... 35' 0"  
 OVERALL WIDTH ... 8' 0"  
 OVERALL HEIGHT ... 12' 8"

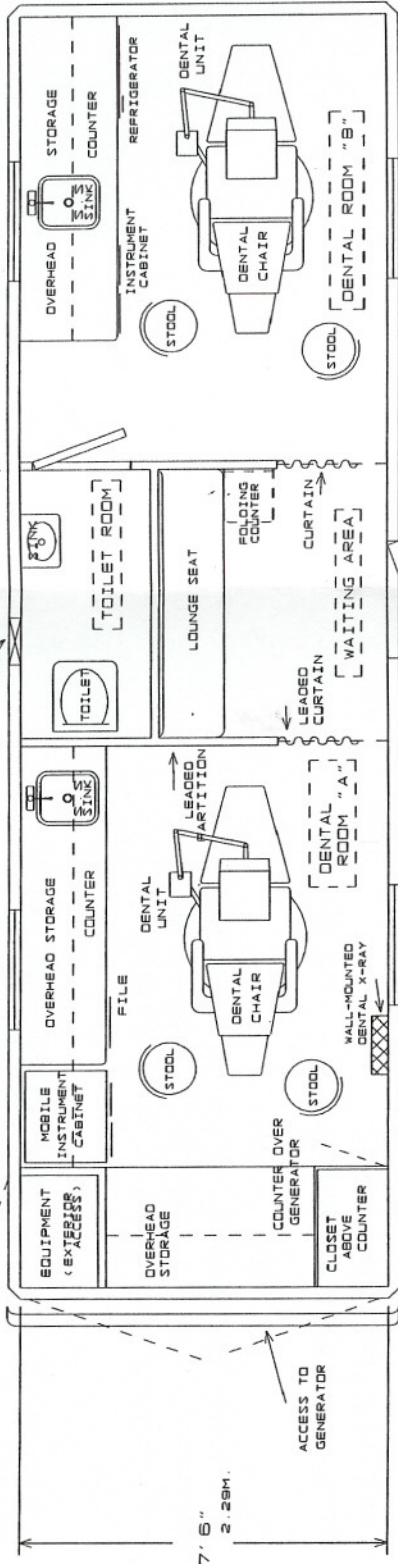
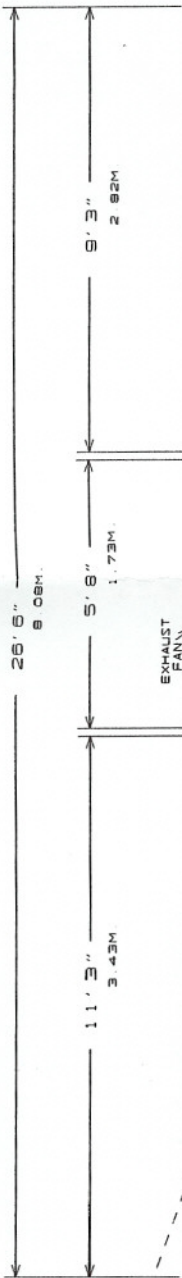


INTERIOR HEIGHT ... 82"  
 2.08M

# 2-CHAIR DENTAL CLINIC

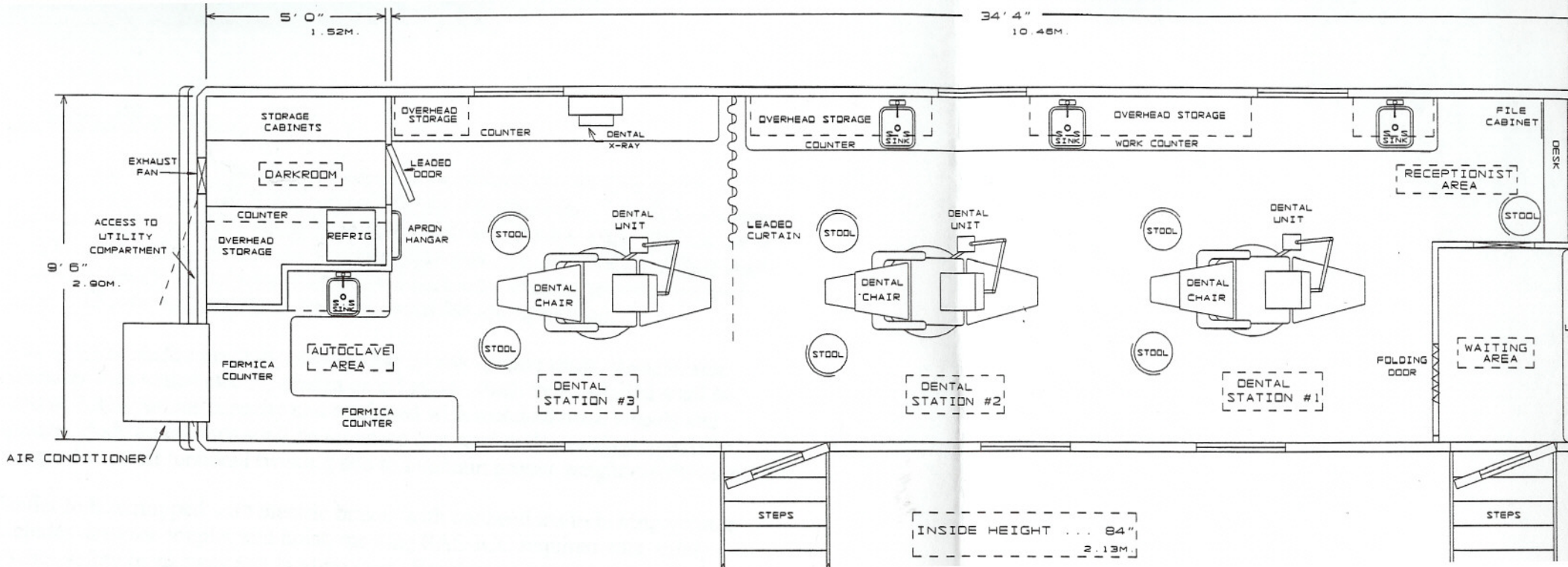
REV.	ALCO 28
	DESCRIPTION





INTERIOR HEIGHT ... 82"










ATLANTIC FLEET

MOBILE DENTAL UNIT

NAVAL DENTAL CENTER  
NORFOLK, VA







**MOBILE DENTAL CLINIC**

DEPARTMENT OF HEALTH  
1000 S. W. 15th Ave.  
H.A. Hall Bldg.  
Miami, Florida 33134  
Miami Dental Association  
Miami, Florida 33134



A white mobile dental unit truck parked in front of a large industrial building. The truck has a white box body with a door on the left side and a window on the right. On the rear left side, there are several vertical stripes in red, white, and yellow. The text "PACIFIC FLEET MOBILE DENTAL UNIT" is printed in black on the side of the box. Below this, in smaller text, it says "NAVAL DENTAL CENTER WASHINGTON, DC". The truck is parked on a dark asphalt surface under a clear blue sky with a few clouds. The building behind it is a large, light-colored structure with a corrugated metal roof.

PACIFIC FLEET  
MOBILE DENTAL UNIT

NAVAL DENTAL CENTER WASHINGTON, DC







MOBILE DENTAL UNIT



American Bio-Medical Service Corporation (ABMSC) has developed the most advanced, fully self-sustaining, mobile medical care facility known to date. Currently, there are no other certified commercial transportable medical units available with the self-sufficiency, mobility, and design flexibility.

As a fully functioning, self-sustaining mobile surgical/medical center, the mobile unit requires very little setup time and comes equipped with security and monitoring systems. The spacious design flows from room to room offering a comfortable environment for patients and staff. These modular units can be modified to create ancillary facilities, such as housing or teaching units for staff and patients.

All models are mobile and capable of being transported by cargo ships, overland haulers, or military helicopters. Each mobile unit can remain on its own axle or can be installed on a foundation for semi-permanent or permanent use. The units can also be linked to form a modular building complex, such as a full-fledged hospital.

### **Features**

- The mobile unit can be connected to local commercial utility power. (Back-up power will automatically kick in if interrupted.)
- The generator is capable of continuous 24-hour operation for one week using diesel fuel.
- Self-contained fresh water supply; black and grey waste tanks all concealed under unit.
- Redundant air-conditioning system with five fan-coils and individually controlled temperature zones.
- On-demand electric water pump used for all sinks, water heater, and toilets; built-in 10-gallon water heater.
- Fully installed medical gas and vacuum system (includes manifold, monitors and alarm system).
- Complete security systems with outside remote camera system.

### **Custom Construction**

- Exterior can be modified to customer color or design (i.e., national flag, etc.) specifications.
- Built specifically to handle the rigorous conditions found in disaster areas or environmentally hostile locations.
- Entire undercarriage can be insulated and sealed against severe climatic conditions.

- Flooring finish is hospital grade vinyl (seamless, welded) for the reduction of bacterial and contamination concerns.
- Fitted with universal tie-down points and four pick up points for crane or helicopter transport.

**Annex (1)  
Truck Specifications**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
<b>Truck</b>	Freightliner	4900SA	<p><b>Truck:</b> 6 x 6  <b>Engine:</b> V shape 8cc  <b>Horsepower:</b> 500 minimum  <b>Engine:</b> turbo charger  <b>Engine cooling:</b> via a cooler not Less than 100 liters in capacity.  <b>Gearbox:</b> full automatic with 16 front speeds and one rear speed.  <b>Tires and rims:</b> minimum 10 tires, size R20/1400XZL, TUBELESS PR 22 with rims iron sheet plus a spare tire of the same size, fitted with loading and unloading winch.  <b>Diesel tank:</b> capacity minimum 600 liters  <b>Steering wheel:</b> hydraulic</p>	<b>10</b>

**Annex (1)  
Truck Specifications**

**Annex (2)**  
**Field hospital specifications (trailed - borne)**

(12) Trailers representing clinics medical wards and their annexes (the table below).

(4) multi-purpose tents

Corridors and connectors sufficient to set up the closed hospital.

Integrated kitchen.

Integrated air-conditioning system.

Medical gases system.

Medical systems and furniture.

<b>S.N.</b>	<b>CONTAINER PURPOSE</b>
1	Operation room
2	Intensive care room
3	Emergency suite
4	Administrative office (command)
5	X-ray room
6	Laboratory and sterilization room
7	Pharmacy room
8	Dentistry room
9	Ophthalmology
10	ENT room
11	Maternity suite
12	Kitchen suite

**The specifications for the multi-purpose tents:**

1. Fire-resistant.
2. Each tent should not be less than 48 meters in space.
3. Can be used as a basic clinic, exchange and sorting area, emergency or inpatient clinic.
4. Easy to install and dismantle.
5. Easy to supply with electricity and air conditioning.
6. Weather proof.
7. Durable and robust.
8. Inflatable

**Annex (2)**  
**Field hospital specifications (trailed - borne)**  
**(continued)**

**The specifications required for the corridors and connectors:**

The specifications in this area are open according to the supplier's own style. However, it is to be taken into consideration, the good design and form, lighting, air-conditioning, heavy duty capacity to bear the work pressure and patient numbers.

**The specifications required for the containers:**

1. Possibility to transport by \*\*\*\*C.-130 transport aircraft .
2. Possibility of all containers to be transported by ships.
3. Possibility of all containers to be borne or towed by trucks.
4. Trailers must have characteristics of robustness, durability, ease of movement, endurance of movement, shaking and shocks.
5. Trailer shall bear the harsh climatic conditions and temperatures and shall be compatible with military standards.
6. The trailer shall be thermally insulated with nonpoisonous strong and fire-resisting internationally approved material.
7. The x-ray trailer shall be insulated with lead according to standard specifications.
8. Trailer weight shall be suitable not exceeding in any case 6 tons when empty and not exceeding 10 tons with full load and contents.
9. Easy dismantling, deployment, use and application.
10. Sufficient and properly insulated doors and windows with taking in consideration the future need for additional doors in case of connecting containers to form a closed hospital.
11. Sufficient electrical fittings and numbers of sockets for medical systems. The available voltage must meet the technical requirements of the equipment and be of internationally recognized medical installation quality.
12. Sufficient, proper, easy to install and service lighting inside trailer. In addition the lighting in the operations and intensive care rooms shall be of washable and sterilizable type.
13. The Trailer shall have all necessary non medical necessary connections (such as electricity, water and sanitary drainage networks).
14. The Trailer shall have all the necessary medical extensions (such as oxygen network, compressed air...etc.), and their locations inside the trailer shall be compatible with their purpose
15. The Trailer shall have AUTO STEAL FOOT hydraulic lifting and lowering system for each container, fixed at each of the four container corners, raised from the ground by a distance minimum ½ meter.

**Field hospital specifications (trailed - borne)  
(continued)**

16. Electricity and water inlets on the outside walls of the Trailer shall be weather proof.
17. Operation and intensive care rooms shall be provided with filters for bacteria and negative pressures.
18. All trailers operate with hydraulic extension systems and in case such a system

- fails for any reason, the work can be manually performed.
19. The trailer structures shall have a warranty for a minimum period of (10) years.

### **The Air-Conditioning System**

1. Either central or separately for each individual trailer. All trailers without exception must be air-conditioned. The temperature shall be controlled from within the trailer.
2. The system must have a warranty for a minimum period of (3) years.
3. Spare parts must remain available for a minimum period of (10) years.

### **Electric Generators:**

1. One or more electric generators capable of operating the hospital and its annexes in full, in addition to another emergency generator. The load shall be automatically transferred to the emergency generator upon power failure using ATS system.
2. There must be agent for the equipment in Saudi Arabia.
3. The generator must be the production of internationally recognized companies known for good industry and endurance of high temperatures.
4. The generators must have a warranty for a minimum period (3) years. Spare parts must remain available for a minimum period of (10) years.

### **Medical equipment and furniture:**

1. Attached are tables showing the numbers and specifications of medical equipment and furniture which must be committed to.
2. All medical equipment and systems must be compatible with the mobile trailer.
3. They shall be of good quality known industry.
4. They must have a warranty for a minimum period of (3) years.
5. Spare parts must remain available for a minimum period of (10) years.

**ANNEX 2  
OPERATION THEATRE**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1	3	Ohmeda U.S.A.	7100	Anesthesia Machine complete, including ventilator, as per specifications
2	9	Amico Canada	VR-C2UD- CMA	Suction Regulator, as per specifications
3	6	Physio-Control and ABMSC U.S.A.	LP20	Crash Cart, Defibrillator, as per specifications
4	3	ValleyLab U.S.A.	Force Argon II	Electrosurgical Unit, as per specifications
5	3	Pedigo U.S.A.	NC100	Mayo-Stand for Surgical Instruments, as per specifications
6	6	Pedigo U.S.A.	P-1020SS	Kick Bucket, as per specifications

**ANNEX 2  
OPERATION THEATRE  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
	<b>(USD)</b>		<b>(USD)</b>	
7	3	Steris U.S.A.	LA500	Light Operation Theatre, as per specifications (ENGLISH – Surgical Lights)



8	3	GE U.S.A.	S-5 Anesthesia	Physiological Monitoring Unit, Surgical, as per specifications (ENGLISH – Vital Signs Monitor)
9	3	Steris U.S.A.	3085	Operating Table, as per specifications
10	6	Alaris U.S.A.	7130B	Infusion Pump, as per specifications
11	6	Bard U.S.A.	Infusor	Syringe Pump, as per specifications
12	6	Level 1 U.S.A.	1200	Blood Warmer, as per specifications

**ANNEX 2  
OPERATION THEATRE  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
13	3	Galaxy U.S.A.	1068	Stool, Anesthetist, as per specifications
14	3	Galaxy U.S.A.	1165	Stool, Operating, as per specifications (ENGLISH – Doctor’s stool)
15	3	Anesthesia Associates U.S.A.	Penlon	Laryngoscope Set, Adult/Pediatric w/different blades, as per specifications
16	3	Coulmed	CM106	Table, Instrument as per

		U.S.A.		specifications
17	3	Littmann	4000	Stethoscope for Anesthetist, as
		U.S.A.		per specifications - electronic
18	3	ABMSC	ABM-25	Suction Machine Mobile, as per
		U.S.A.		specifications

**ANNEX 2  
OPERATION THEATRE  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
19	3	Burton	6230	Lamp, Ultraviolet, as per
		U.S.A.		specifications
20	12	Galaxy	1060	Nurse Stool
		U.S.A.		
21	3	Tuttnauer	2540	Counter-top Autoclave
		U.S.A.		
22	3	Amico	A2ME20	Medical Gas System

**ANNEX 2  
AMBULANCE UNIT**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1	12	Steris	462	Patient Bed, Stretcher, as per
		U.S.A.		specifications (ENGLISH – Gurney)

2	3	Drive U.S.A.	FFPI	Wheel Chair, as per specifications
3	3	Hudson RCI U.S.A.	15FL	Oxygen Flow Meter with Humidifier, as per specifications
4	3	Amico Canada	VR-C2UD- CMA	Suction Regulator, as per specifications
5	3	Welch Allyn U.S.A.	62000	Vital Signs Monitor, Wall Mounted, as per specifications
6	3	Physio-Control U.S.A.	LP20	Defibrillator, as per specifications

**ANNEX 2  
AMBULANCE UNIT  
(continued)**

<b>Item Number</b>	<b>Qty (USD)</b>	<b>Manufacturer Unit Price Country</b>	<b>Model Total Price (USD)</b>	<b>Description</b>
7	3	Hudson RCI U.S.A.	RC101	Resuscitator, Adult, as per specifications (ENGLISH – Ambu-bag)
8	3	Hudson RCI U.S.A.	RC100	Resuscitator, Pediatric, as per specifications (ENGLISH – Ambu-bag)

**ANNEX 2  
LABORATORY**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
------------------------	------------	---------------------------------	--------------	--------------------

1	3	Bayer U.S.A.	Advia	Hematology Analyzer, as per specifications
2	3	Beckman U.S.A.	CX3	Chemistry Analyzer, as per specifications
3	3	Centra U.S.A.	CL	Centrifuge, Bench Top, as per specifications
4	6	Micromaster U.S.A.	CK	Microscope Basic, as per specifications
5	3	Titer U.S.A.	14260	Shaker, as per specifications
6	3	Fisher U.S.A.	14059	Mixer, as per specifications
7	3	Wheaton U.S.A.	12-813	Rocker, as per specifications

**ANNEX 2  
LABORATORY  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
8	3	Fisher U.S.A.	13-874	Bath, Water, as per specifications
9	3	Fisher U.S.A.	11-690	Incubator, Electronic, as per specifications
10	3	Fisher	952	Refrigerator, Low Temp.

		U.S.A.		(Freezer), as per specifications
11	3	Fisher	950	Refrigerator, as per specifications
		U.S.A.		
12	3	Fisher	545	Timer (Electronic), as per specifications
		U.S.A.		
13	3	Barnstead	4-6V	Distillation Unit, as per specifications
		U.S.A.		(ENGLISH – Water Purifier)

**ANNEX 2  
LABORATORY  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
14	3	Fisher Isotemp U.S.A.	13987	Blood Bank Refrigerator, as per specifications
15	3	Ames U.S.A.	AM-577	Urine Analyzer, as per specifications
16	3	Winco U.S.A.	655	Couch (For Blood Draw), as per specifications (ENGLISH – Recliner Blood Station)
17	3	Wayne U.S.A.	S-1000	Hot Air Sterilizer, as per specifications (ENGLISH – Dry heat Sterilizer)

**ANNEX 2  
STERILIZATION UNIT (STERILE SUPPLY)**

<b>Item Number</b>	<b>Qty</b> <b>(USD)</b>	<b>Manufacturer</b> <b>Unit Price</b> <b>Country</b>	<b>Model</b> <b>Total Price</b> <b>(USD)</b>	<b>Description</b>
1	3	Steris U.S.A.	3013	Sterilizer Unit, Steam, as per specifications
2	3	Steris U.S.A.	3000	Washer, Disinfectant, as per specifications
3	3	Steris U.S.A.	Caviwave	Cleaner, Ultrasonic, Floor Mounted, as per specifications

**ANNEX 2  
PHARMACY**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer</b> <b>Country</b>	<b>Model</b>	<b>Description</b>
1	3	Hamilton U.S.A.	6920	Cabinet Medicine, as per specifications
2	3	Hamilton U.S.A.	8920	Storage Medicine Cabinet, Two Door, as per specifications
3	9	Health Care Logistics U.S.A.	8222	Cabinet, Narcotic, Double Door, Wall Mounted, as per specifications
4	3	Fisher U.S.A.	920	Refrigerator, Pharmaceutical, as per specifications
5	3	Kirby Lester U.S.A.	KL15df	Counter, Tablet, Electrical Automatic, Bench Top, as per specifications

6	3	Health Care Logistics U.S.A.	1893	Bin, Unit Dose Medication, Medium, as per specifications
---	---	------------------------------------	------	---

**ANNEX 2  
PHARMACY  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
7	3	Health Care Logistics U.S.A.	1892	Bin, Unit Dose Medication, Large, as per specifications
8	3	Health Care Logistics U.S.A.	1700	Bin, Unit Dose Medication, Small, as per specifications

**ANNEX 2  
OPHTHALMOLOGY CLINIC**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1 patient	3	Topcon \$ U.S.A.	IS-2500	Eye Examination System with chair, Ophthalmic Stand with lamp and complete with slit lamp, Autokerato-refractomete, Phoroptor Unit and Autochart Projector, as per specifications
2	3	Welch Allyn U.S.A.	18335	Ophthalmoscope, Indirect, as per specifications

3	3	Topcon U.S.A.	LM-8/8E	Lensometer with Marking Device, as per specifications
4 as	3	Infocus U.S.A.	TLS-266	Lenses, Trial, Complete set in case, per specifications
5	3	Ilab U.S.A.	STB-13	Sternest (Stereopsis Test Book or Drawing), as per specifications
6	3	Topcon U.S.A.	SS-3	Retino Scope, as per specifications

**ANNEX 2  
OPHTHALMOLOGY CLINIC  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
7	3	Perkins U.S.A.	P.E.T.	Tonometer, Ophthalmic, as per specifications
8	3	Capital U.S.A.	M2001	Binocular Loop, as per specifications

**ANNEX 2  
DENTAL CLINIC**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1	3	ASI U.S.A.	2400E	Dental Chair, Complete, as per specifications
2	3	Dentsply	Promix	Amalgamator, as per specifications



		U.S.A.		
3	3	Triad	2000	Light Curing Unit, as per specifications
		U.S.A.		
4	3	Dent	810	Film Processor, Dental, as per specifications
		U.S.A.		
5	3	Siemans	DS	Dental X-Ray Unit, as per specifications
		U.S.A.		
6	3	CPC-Henan	UDS-L	Dental Scaler Unit, as per specifications
		U.S.A.		
7	3	MCC Cabinets	MFB 210SP	Dental Cabinet System with sink, as per specifications
		U.S.A.	with sink	

**ANNEX 2  
DENTAL CLINIC  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
8	3	Pedigo U.S.A.	SG-92	Dental Instrument Table, Mobile, as per specifications
9	3	Mettler U.S.A.	Cavitator II	Ultrasonic Cleaner, as per specifications
10	3	Tuttnauer U.S.A.	EZ10	Autoclave Unit, Dental, as per specifications

**ANNEX 2  
ENT CLINIC**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1	3	Reliance U.S.A.	425	ENT Treatment Unit, Complete as per specifications
2	3	Interacoustics U.S.A.	Equinox	Audiometer, Clinical, as per specifications
3	3	Interacoustics U.S.A.	AT325h	Middle Ear Analyzer, as per specifications

**ANNEX 2  
X-RAY**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
1	3	GE U.S.A.	MPI Precision System	X-Ray Unit, General, as per specifications
2	3	GE U.S.A.	RPN1700	X-Ray Film Processor, Bench Top, as per specifications
3	3	Lumimed U.S.A.	LD12A	X-Ray Film Viewer, Double, as per specifications
4	24	AXS U.S.A.	PA-ha2424	Apron Patient Protective, as per specifications
5	3	Kodak U.S.A.	X-Omatic ID Camera #4	X-Omatic Identification Camera, Digital, as per specification
6	3	AXS	DR-FB1417	Film Bin for X-Ray

		U.S.A.		
7	3 set	Kodak	X-Omat RP	X-Ray Film
		U.S.A.		

**ANNEX 2  
PRIMARY CARE CLINIC**

<b>Item Number</b>	<b>Qty (USD)</b>	<b>Manufacturer Country</b>	<b>Model (USD)</b>	<b>Description</b>
1	12	Midmark U.S.A.	106	Examination Table, as per specifications
2	18	GE Healthcare U.S.A.	S5 Compact	Vital Signs Monitor, as per specifications
3	9	Amico Canada	VR-C3U2- F2A	Suction Regulator, as per specifications
4	12	Welch Allyn U.S.A.	11735	OTO/Ophthalmoscope, as per specifications
5	9	Alaris U.S.A.	Tri-site	Thermometer Electronic, as per specifications
6	9	Hemocure U.S.A.	HC-1	Glucometer, as per specifications
7	9	Scaletronics U.S.A.	5002	Scale Standing Digital, as per specifications

**ANNEX 2  
PRIMARY CARE CLINIC  
(continued)**

<b>Item</b>	<b>Qty</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
-------------	------------	---------------------	--------------	--------------------

<b>Number</b>	<b>Country</b>			
8	Gomco	401	Suction, Portable, as per	
<b>9</b>	U.S.A.		specifications	
9	Ritter	151	Examination Light, as per	
<b>12</b>	U.S.A.		specifications	
10	MacIntosh &	80613	Laryngoscope Set, as per	
<b>12</b>	Miller		specifications	
	U.S.A.			
11	American	AMS01	X-Ray Viewer, Single, as per	
<b>12</b>	Medical Sales		specifications	
	U.S.A.			
12	Hudson RCOI	2042	Oxygen Flow Meter with	
<b>12</b>	U.S.A.		Humidifier, as per specifications	
13	Omron	11-675DNL	Sphygmomanometer, Wall	
<b>12</b>	U.S.A.		Mounted, as per specifications	

**ANNEX 2  
IN-PATIENT UNIT**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Number</b>	<b>Country</b>		
1	Hill-Rom	Century	Patient Bed, Electric, as per
<b>60</b>	U.S.A.		specifications
2	GE	S5 Compact	Vital Signs Monitor with Trolley,
<b>42</b>	U.S.A.		as per specifications
3	Alaris	7130B	Infusion Pump, as per
<b>42</b>			

		U.S.A.		specifications
4	72	Hudson RCI	15FL	Oxygen Flow Meter with Humidifier, as per specifications
5	60	Amico	VR-C2UD-	Suction Regulator, as per specifications
		Canada	CMA	

**ANNEX 2  
MOBILE MODULAR TRAILERS**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
--------------------	-----------------------------	--------------	--------------------	------------

**Units complete with modules listed for 3 medical centers complete 36**

1	Included	ABMSC U.S.A.	ABM-MMU- ET01	Emergency / Triage Module
2	Included	ABMSC U.S.A.	ABM-MMU- OR01	Surgical / Operating Module
3	Included	ABMSC U.S.A.	ABM-MMU- RAD01	Radiology / X-Ray Module
4	Included	ABMSC U.S.A.	ABM-MMU- MAT01	Maternity / GYN Module
5	Included	ABMSC U.S.A.	ABM-MMU- CS01	Central Procassing / Sterilization Module
6	Included	ABMSC U.S.A.	ABM-MMU- LP01	Laboratory / Pathology Module

**ANNEX 2  
MOBILE MODULAR TRAILERS  
(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
-------------	---------------------	--------------	--------------------	------------

<b>Number</b>	<b>Country</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
7	Included U.S.A.	ABMSC	GPC01	ABM-MMU- Primary Patient Care Module
8	Included U.S.A.	ABMSC	PH01	ABM-MMU- Pharmacy Module
9	Included U.S.A.	ABMSC	OP01	ABM-MMU- Ophthalmology Module
10	Included U.S.A.	ABMSC	ENT01	ABM-MMU- ENT Module
11	Included U.S.A.	ABMSC	DC01	ABM-MMU- Dental Care Module
12	Included U.S.A.	ABMSC	GU01	ABM-MMU- General Utility Module
13	Included U.S.A.	ABMSC	SCM01	ABM-MMU- Staff Care Module

**ANNEX 2  
MOBILE MODULAR TRAILERS  
(continued)**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
<b>Tents</b>	ABMSC U.S.A.	APT01	ABM-MMU- Multi-Purpose Tents	<b>12</b>

**ANNEX 2  
EMERGENCY GENERATOR**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
1	MQ Power U.S.A.	MOP150IV	Generator: 150KVA Fuel: Diesel tank.	<b>12</b>

			Trailer: Air cooled. Electrical Panel for emergency power. Variable voltage on demand. Heavy duty radiator and cooling system. Annunciator panel.	
2	MQ Power	GTK	Generator Tool Kit	3
3	Freightliner/ Mercedes U.S.A.	4000	Fuel tanker with truck	3

**Annex (2-A)  
Additional Equipment Required**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>	<b>Qty</b>
<b>Surgical</b>	Storz	2222	Endoscopic tower – complete	
<b>3</b>	U.S.A.			
<b>Equipment-</b>	Storz	2222-G	GYN tower – complete	
<b>Specialty</b>	U.S.A.			
<b>3</b>	Storz	2222-A	Arthroscopy tower – complete	
<b>3</b>	U.S.A.			
<b>12</b>	Storz	11272	Endoscope	
<b>6</b>	U.S.A.			
<b>6</b>	Storz	2600	GYN scope	
<b>3</b>	U.S.A.			
<b>3</b>	Storz	28300	Arthroscope	
<b>3</b>	U.S.A.			
<b>3</b>	OEC	9800C	“C” Arm – complete	
<b>3</b>	U.S.A.			
<b>3</b>	Leica	M525-OH	Surgery microscope	
<b>3</b>	U.S.A.			

3	Leica	M525MC	ENT microscope
	U.S.A.		
3	Leica	M820	Eye microscope
	U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

Item Number	Qty	Manufacturer U Country	Model	Description
	3	Imaging U.S.A.	IS8000	“C” arm table
ICU	12	Hill-Rom U.S.A.	Total Care RT	Patient bed
	12	GE U.S.A.	DASH-ICU	Patient ICU monitor
	3	GE U.S.A.	DASH-	Central station
	12	GE U.S.A.	Central DASH-	Telemetry
	6	Nubenco U.S.A.	Telem NestoVent 7	Adult/pediatric ventilator
	3	Phillips U.S.A.	Pagewriter	EKG machine
	15	Bard U.S.A.	Touch Infusor	Syringe pump
	36	Alaris U.S.A.	7130B	Infusion pump

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**



<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>Kitchen Unit</b>	<b>3</b>	AFS U.S.A.	436D6	Oven
	<b>3</b>	Hobart U.S.A.	WB3610028	Grill
	<b>3</b>	AFS U.S.A.	T9-3-54-	Sink
	<b>3</b>	Hobart U.S.A.	18RL-3 LX1H3	Dishwasher
	<b>3</b>	Ameri/Kooler U.S.A.	81277	Refrigerator – walk-in
	<b>3</b>	AFS U.S.A.	KAG-3012-2	Prep station
	<b>3</b>	Hatco U.S.A.	HDW-3	Warming station
	<b>3</b>	AFS U.S.A.	ABM-KU	Utensils
	<b>3</b>	Carlisle/ABC U.S.A.	A60200	Pots & pans
	<b>3</b>	Victoria U.S.A.	BACR-02	Salad bar area

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
------------------------	------------	---------------------------------	--------------	--------------------

Amana	AMH20D	Microwave / Convection
<b>3</b>		
U.S.A.		
BrewMatic	10325200	Coffee maker station
<b>3</b>		
U.S.A.		
Randell	9045K-7	Food cart - refrigerated
<b>3</b>		
U.S.A.		
Crescor	PWS-1834-C	Mobile Heated Cabinet
<b>3</b>		
U.S.A.		
Vulcan	1GR65	Fryer
<b>3</b>		
U.S.A.		
Carter/Hoffman	PRF850	Mobile refrigerated cabinet
<b>3</b>		
U.S.A.		
Gormet	5003531	Drink dispenser
<b>3</b>		
U.S.A.		
Scottsman	NME954AS	Ice machine
<b>3</b>		
U.S.A.		
ATS	SKU-548TT	Table & chairs
<b>3</b>		
U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Qty</b>	<b>Unit Price</b>	<b>Total Price</b>	
<b>Number</b>	<b>Country</b>		
<b>Hospital</b>	Office Furniture	OFG-LD30	Desk
<b>3 sets</b>			
<b>Furniture</b>	U.S.A.		
	Medline	MDR311204	Patient charts
<b>3 sets</b>			
	U.S.A.		
	Hon	174-665	Filing cabinets
<b>3 sets</b>			
	U.S.A.		
	Medline	MDR4307	Overbed tables
<b>3 sets</b>			

Medline	U.S.A. MDR811305	Chairs	<b>3 sets</b>
	Hewlett Packard	ABM-WO	Computers – System complete
	<b>3 sets</b> U.S.A.		
	Texas Instruments	BA-20	Calculators
	<b>3 sets</b> U.S.A.		
	ABMSC	Misc	Office supplies
	<b>3 sets</b> U.S.A.		
	Diamond Drapery	ABM-PT01	Patient curtains
	<b>3 sets</b> U.S.A.		
	Hewlett Packard	1040	Fax machine
	<b>3 sets</b> U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
	Canon	MF6550	Copy machine
	<b>3 sets</b> U.S.A.		
	ABBA Technology	ABT7000	Phone / Intercom / Security & Data
	<b>3 sets</b> U.S.A.		system
	Medline	MDR10450	Staff sleeping bed or cot and
	<b>3 sets</b> U.S.A.		accessories
	Medline	MDR90WH	Waiting room chairs
	<b>3 set</b> U.S.A.		
	Medline	MDR640	Waiting room tables
	<b>3 sets</b> Littman	MDJ9290	Stethoscopes
<b>3 sets</b>	U.S.A.		
<b>Ambulance</b>	Hummer	H1	Ambulance vehicle:
<b>3</b>			

	U.S.A.		With diesel fuel – complete Special cooled engine V min 6 cylinders
<b>Labor &amp; 6 Delivery</b>	Hill-Rom	Affinity	Labor & delivery bed
	U.S.A.	4 Plus	

**Annex (2-A)  
Additional Equipment Required  
(continued)**

<b>Item Qty Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>3</b>	Ohmeda U.S.A.	7100	Anesthesia machine
<b>3</b>	Physio-Control/ U.S.A.	LP20	Crash cart
<b>6</b>	Steris U.S.A.	462	Gurney
<b>12</b>	Cormetrics U.S.A.	250CS	Fetal monitor
<b>9</b>	GE U.S.A.	Panda	Baby warmer
<b>6</b>	Medsonics U.S.A.	MENFP3B	Fetal Doppler
<b>3</b>	GE U.S.A.	Careplus 12	Incubator
<b>3</b>	Tuttnauer U.S.A.	EZ10VP	Autoclave
<b>3</b>	Siemens U.S.A.	Sonoline	GYN ultrasound
<b>3 sets</b>	Hill-Rom U.S.A.	Affinity	Procedure room furniture



9	Winco	630	Recliner
	U.S.A.		
	American	0295-200WC	Cast Cart
	<b>3</b>		
	Orthopaedic		
	U.S.A.		
	Physio-Control /	ABM/LP20	Crash Cart
	<b>3</b>		
	ABMSC		
	U.S.A.		
	ABMSC	Misc	Emergency supplies
	<b>3</b>		
	U.S.A.		
	GE	S5 Compact	Patient monitor
	<b>12</b>		
	U.S.A.		
	Phillips	Pagewriter	EKG machine
	<b>3</b>		
	U.S.A.	Touch	
	Scottsman	MDT5N25	Ice machine
	<b>3</b>		
	U.S.A.		
	Steris	AWC-1	Blanket warmer
	<b>3</b>		
	U.S.A.		
	Amico	Amico	Medical gas
	<b>3</b>		
	Canada	System	

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Number</b>	<b>Country</b>		
<b>Miscellaneous</b>			
<b>Equipment</b>	Freightliner/	4001	Water tanker
<b>6</b>			
	Mercedes		
	U.S.A		
	Best Products	37B3	Janitor equipment
<b>3</b>			

U.S.A. Sanitaire <b>3</b>	6080	Vacuum
U.S.A. Janlink <b>3</b>	180	Buffers
U.S.A. Profex <b>3 sets</b>	HS50	Hospital hampers
U.S.A. Coulmed <b>3 sets</b>	CM510	IV stand
U.S.A. Hospital Systems <b>3 sets</b>	2000	Elapse timer
U.S.A. Unimax <b>3 sets</b>	FTUAIA	Laundry washer & dryer
U.S.A. Steris <b>3</b>	UTF75 AWC-1	Blanket warmer
U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

Item Number	Qty	Manufacturer Country	Model	Description
		Bair Hugger <b>3</b>	1000	Patient warmer
		U.S.A. Scotsman <b>3</b>	NME954AS	Ice machine
		U.S.A. Freightliner <b>3</b>	4901	Hazardous waste tanker
		U.S.A. Freightliner <b>3</b>	4902	Trash truck
		U.S.A. Amico <b>3</b>	SCSL400	Medical vacuum system
		Canada		

	GE	VIVA-7	Ultrasound ECG, urology
<b>3</b>	U.S.A.		
	ABMS	1000	Nurse call / code blue system
<b>3 syst</b>	U.S.A.		
	Midmark	AVB20R	Wet Vacuum
<b>3</b>	U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Number</b>	<b>Country</b>		
<b>Instruments</b>	Millennium	ABM-AGN-	Abdominal gynecological set
<b>6</b>	U.S.A.	012	
	Milleinum	ABM-BS-	Basic set
<b>6</b>	U.S.A.	001	
	Millennium	ABM-BES-	Basic ear set
<b>6</b>	U.S.A.	006	
	Millennium	ABM-BEYS-	Basic eye set
<b>6</b>	U.S.A.	002	
	Millennium	ABM-BNS-	Basic nasal set
<b>6</b>	U.S.A.	003	
	Millennium	ABM-BOT-	Basic ortho set
<b>6</b>	U.S.A.	001	
	Millennium	ABM-BVT	Basic vaginal instrument
<b>6</b>	U.S.A.	01A	
	Millennium	ABM-SCT-	Cataract set
<b>6</b>	U.S.A.	001	
	Millennium	ABM-NCT-	Chest tube insertion tray
<b>6</b>	U.S.A.	007	
	Millennium	ABM-BCS-	Circumcision set
<b>6</b>			



U.S.A. 001

**Annex (2-A)  
Additional Equipment Required  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
		Millennium <b>6</b>		ABM-GYDC- D & C set
		U.S.A. Millennium <b>6</b>	002	ABM-BEYM- Eye muscle tray 1
		U.S.A. Millennium <b>6</b>	004	ABM-GSGD- Gall bladder and common duct set
		U.S.A. Millennium <b>6</b>	003	ABM-BSHS- Hand set
		U.S.A. Millennium <b>6</b>	007	ABM-BSHT- Hemerrhoid tray
		U.S.A. Millennium <b>6</b>	002	ABM-BSHS- Hernia set
		U.S.A. Millennium <b>6</b>	001	ABM-BSID- I & D set
		U.S.A. Millennium <b>6</b>	004	ABM-BSLS- Laparoscopy set
		U.S.A. Millennium <b>6</b>	002	ABM-PTL- Large plastic tray
		U.S.A. Millennium <b>6</b>	002	ABM-MNS- Major nasal set

U.S.A. 003

**Annex (2-A)  
Additional Equipment Required  
(continued)**

<b>Item</b>	<b>Qty</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
-------------	------------	---------------------	--------------	--------------------

**Number****Country**

Millennium <b>6</b>	U.S.A.	ABM-MNNS-	Minor nasal set
Millennium <b>6</b>	U.S.A.	ABM-MSS-	Minor surgery set
Millennium <b>6</b>	U.S.A.	ABM-MSS-	Minor tray
Millennium <b>6</b>	U.S.A.	ABM-PSS-	Pediatric set
Millennium <b>6</b>	U.S.A.	ABM-PTS-	Small plastic tray
Millennium <b>6</b>	U.S.A.	ABM-SPKW-	Steinman Pin & Kerschner Wire Set
Millennium <b>6</b>	U.S.A.	ABM-BSRM-	Radical mastectomy set
Millennium <b>6</b>	U.S.A.	ABM-BSRS-	Rectal set
Millennium <b>6</b>	U.S.A.	ABM-BNEI-	Sinus endoscopy instruments
Millennium <b>6</b>	U.S.A.	ABM-NSSG-	Skin graft set
	U.S.A.	002	

**Annex (2-A)****Additional Equipment Required****(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Number</b>	<b>Country</b>		
Millennium <b>6</b>	U.S.A.	ABM-BSOS-	Supplemental Ortho instruments
Millennium <b>6</b>	U.S.A.	ABM-BSTA-	T & A set

	U.S.A.	002	
	Millennium	ABM-BSTS-	Thyroidectomy set
	<b>6</b>		
	U.S.A.	001	
	Millennium	ABM-BSTS	Tracheotomy set
	<b>6</b>		
	U.S.A.	003	
	Millennium	ABM-BUD-	Urethral dilation set
	<b>6</b>		
	U.S.A.	002	
	Millennium	ABM-VTL-	Vaginal tubal ligation set
	<b>6</b>		
	U.S.A.	003	
	Millennium	ABM-MIN	Minimally invasive neuro
<b>6</b>			
	U.S.A.	001	instrument tray
	Millennium	ABM-ISC	Instrument sterilization
<b>222</b>			
	U.S.A.	000	Containers
<b>Hospital</b>	McKesson	N/A	Consumables
<b>3 sets</b>			
<b>Supplies</b>	U.S.A.		

**Annex (2-A)**  
**Additional Equipment Required**  
**(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Qty</b>	<b>Number</b>	<b>Country</b>	
	McKesson	N/A	Disposables
<b>3 sets</b>	<b>\$</b>		
	U.S.A.		
	AKRO	AKM30210-	Storage Container for
<b>3 sets</b>	<b>\$</b>		
	U.S.A.	70	miscellaneous supplies

**ANNEX 2—SPECIFICATIONS**

**OPERATION THEATRE**

Anesthesia Machine Complete, Including Ventilator:

- Input cylinder, three Gas Manifold, fitting pin indexed
- Pipeline input connection for Oxygen, Nitrous Oxide, Air (inlet fitting British Standard)

- Provided cylinders (Oxygen, Nitrous Oxide, Air)
- Precision Calibrated Flow meters of Oxygen, Medical Compressed Air And Nitrous Oxide
- Flowmeters: Oxygen two tubes- ranges 0.05 to 0.95 L/min and 1.0 to 15.0 L/min, Nitrous oxide two tubes- ranges 0.05 to 0.95 L/min and 1.0 to 10 L/min and Air two tubes 0 to 0.95 and to 1 to 15 L/min
- System with three Vaporizer
- The system can not turn on more than one Vaporizer at a time and Vaporizer and manifold prevents gas flow through all the vaporizer that are off
- Built in Battery in Ventilator, internal rechargeable sealed lead acid
- Approximately 30 minutes of operation provided by battery
- Complete power failure or sudden gas failure (or low pressure gas) should indicate visually and audibly
- Ventilator to monitor inspiratory, expiration volume and airway pressure
- Ventilator screen Height x Width: 7.6 x 15.2 cm
- Ventilator operating modes: Volume controlled and pressure limited and pressure controlled
- Ventilator performance ranges: Tidal volume 20 to 1500 ml (Volume control mode) with incremental setting, Minute volume range 0 to 99.9 L/min, and pressure inspired range 12 to 60 cm H<sub>2</sub>O (increments of 1 cm H<sub>2</sub>O)
- Positive End Expiratory Pressure (PEEP) integrated and electronically controlled, range: off, 4 to 30 cm H<sub>2</sub>O (increment of 1 cm H<sub>2</sub>O)
- Alarm settings for Tidal volume, Minute volume, inspired oxygen for Low and High. Also to be warm setting for Apnea, Low air way pressure, high pressure Provided Autoclavable sensor
- On Castors size diameter: 12.5 cm and brakes: single foot lever locks and unlocks two front castors
- Spare Socket box for other equipment
- With Two Shelf and folding side shelf for accessories
- Leakage current less than 500 micro ampere
- Power Supply: 230Volts +/- 20%, 6A, 60Hz

## **ANNEX 2—SPECIFICATIONS**

### **OPERATION THEATRE**

#### **(continued)**

#### **Suction Regulator:**

- Included regulator, jars, probe (inlet fitting British standard), rail mounted, and hose.
- With overflow safety trap
- Internally well designed with the increments in cmH<sub>2</sub>O & kPa to give accurate vacuum by precision regulating diaphragm
- With two scales -mmHg and -kPa
- With three modes Off, On and Max.
- With the feature of positive pressure relief valve vents accidental positive pressure away from patient and system
- Two modes high continuous Gauge 0-100KPa
- Flow rate 0-80 l/min

### Crash Cart Defibrillator:

- Defibrillator with monitor
- Included Cart
- Enables to monitor ECG (3&Five leads) and Pulse oximetry
- Equipped with ADAPTIV for AED
- Capability of manual operation up to 360 joules with synchronous cardio version and pacing
- ECG, pulse and saturation oxygen to be displayed
- Enables to configure the device setting
- Enables to access records of previous patient for review, transmission, printing, editing or deletion
- Built in battery, minimum capacity Defibrillation (360 Joules)# 90 and monitoring of ECG & SpO<sub>2</sub># 2hrs continuous
- Low battery indication: Visual and Audio
- Resolution Color LCD
- Waveform display sweep speed 25mm/sec for ECG
- Enable to give print our complete report including an introduction with patient information and critical care event
- ECG size 4,3,2.5,1.5,0.5,0.25 cm/mV
- Heart rate display 20 to 350 beats per minute digital display with accuracy of +/- 3 digits, Saturation of oxygen range 1 to 100%, Accuracy for 70 to 100% shall be +/- 2 digits
- Printer paper size: 50mm with speed of continuous ECG 25 mm/sec with +/-5%
- Energy delivery accuracy +/- 1 Joule
  
- Manual Energy Selection: 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50, 70, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325 & 360 Joules or configurable joule sequence: 100 to 200, 100 to 300 and 100 to 360
- Charge time for 200 Joules less than four seconds
- Charge time for 360 Joules less than seven seconds
- Power supply: 220 VAC, 50Hz or 60Hz

### Electrosurgical Unit:

- Microprocessor controlled
- Mono-polar Auto cut
- Endo cut
- Soft Coagulation
- Argon-plasma cut
- Forced coagulation cut
- Bio-polar coagulation
- Included all the accessories to implement the above functions
- Automatically perfect cut. fixed-reproducible cut quality with minimum necrosis
- No Carbonization, Precisely Controlled Coagulation cutting Monopolar-cut
- Included Table on four castor, of which two lockable
- Monopolar cut with automatic voltage control

### ENDOCUT

- With automatic control
- HF power adjustment: with up/down increment keys
- Form of HF voltage: Sine wave
- Nominal frequency of HF Voltage: 350Hz

- Constancy of coagulation effects: Automatic regulated
- Nominal HF output: 200 watts at 5000hrs

#### COAGULATION

- HF power adjustment: with up/down increment keys

#### Monopolar Soft Coagulation

- Form of HF current: Sine wave
- Nominal frequency of HF Voltage: 350KHz
- Nominal HF output: 120watts at 200 Ohms

#### Monopolar Forced Coagulation

- Form of HF current: Pulse modulated
- Nominal frequency of HF Voltage: 1MHz
- Nominal HF output: 120watts at 500 Ohms

## **ANNEX 2—SPECIFICATIONS**

### **OPERATION THEATRE**

**(continued)**

#### Monopolar Spray Coagulation

- Form of HF current: Pulse modulated
- Nominal frequency of HF Voltage: 1MHz
- Nominal HF output: 120watts at 500 Ohms

#### Bipolar Coagulation

- Form of HF current: Sine wave
- Nominal frequency of HF Current: 350KHz
- Nominal HF output: 120watts at 125 Ohms
- Start of coagulation: By foot pedal or Auto start

#### Safety Precautions

- Software check of output error
- Software check of Activation time
- Neutral Electrode Monitoring
- Neutral Electrode Switching Self Check
- Error Display
- Power Supply: 220V AC, 50Hz or 60 Hz

#### Mayo-Stand for Surgical Instruments:

- Instrument Serving table
- With Foot operated pump
- Height Adjustment from 950 to 1350 mm by means of foot bar 18/10 S/S tabletop 700 x 500mm
- With raised edges
- Support column and frame in 18/10 S/S
- Pedestal claded in S/S
- Plastic Double castors diam 75mm Antistatic, rust proof
- Nominal capacity 50 kg

#### Kick Bucket:

- Removable 12 liters bucket in 18/10 stainless steel

- 18/10 Stainless Steel frame with profiled plastic wrap around bumper
- Plastic double castors diameter 50mm, Antistatic and rust proof
- Frame height 230 mm
- With Bucket lid in 18/10 Stainless Steel

## **ANNEX 2—SPECIFICATIONS**

### **OPERATION THEATRE** **(continued)**

#### Light Operation Theatre:

- Ceiling mounted
- With optimum ceiling combination three Arms
- Two arms for light and the other arm for monitor
- Illumination Combination: 80,000 lx + 140,000 lx
- Fully rotate-able
- Infrared filtration: IRC bulb + Reflector
- Manual adjustment
- Neutral white light, true to color and cool
- Two-step interference filter for increased heat filters
- Electronic reserve lamp switch over when the main light source is down  
Integrated On/Off switch
- Sterilizable hand grips
- Fully rotate-ability around the vertical axis and precision positioning in any desired position
- Light field diameter at 1m distance 17cm
- Working distance 70 to 130cm
- Depth of working are with homogenous light 60cm
- Color temp: 4.3K Kelvin
- Temperature increased at Surgeon's head 2 centigrade
- Power supply: 220V AC, 50/60Hz

#### Physiological Monitoring Unit, Surgical:

- Specially designed for use in Operation Theatre
- Parameters included ECG/Respiration, Invasive Blood Pressure, Non-Invasive Blood Pressure, CO<sub>2</sub>, Temperature (2), SpO<sub>2</sub>, Anesthesia gas, Pulse rate
- Touch Screen LCD Display 15"
- 8 channel monitoring system in color
- User-defined start up configurations
- Automatic storage of patient data and module settings for transport purposes
- 12 lead ECG with only five electrodes
- Alarm escalation in life-threatening situations
- Enables to install Twelve (12) modules at a time
- Enables to change or another module to slot in without any interruption in operation
- Patient Electrode leakage current less than 10uA
- Built in Battery operating time min. 4hrs (Internal Battery)
- Power supply 110 to 220Vac. 50/60Hz

## **ANNEX 2—SPECIFICATIONS**

**OPERATION THEATRE**  
**(continued)**

Operating Table:

- Electro-hydro adjustment by means of remote control
- Also enables to do by manual positioning by pump lever
- With remote control, one touch adjustment of table movement
- Activating key, against accidental table movement
- O-position key automatically returns the table top
- By remote control to three positions i.e. High/Low, Lateral, Trendelenburg/Reverse Trendelenburg
- Same three positions by hydraulic foot pump independently
- With the reverse mode key to shifting table functions over to reverse mode when the patient has been positioned in inverted way
- OR table integrated with body/kidney elevator and manual longitudinal displacement of table top by up to max. 250mm
- Overall length w/o head and leg sections 1140mm
- Overall length w/o head rest, with head and leg sections 2130mm
- Width 590mm
- Height adjustment 720 to 1080 mm
- Trendelenburg 30 degree
- Reverse Trendelenburg 30 degree
- Lateral adjustment (L/R) +/- 20degree
- Back section +70degree/-50degree
- Leg Plate(s) +20degree/-90degree
- Nominal capacity 185Kg
- Battery operated
- Included rechargeable batteries. External battery charger with mains cable
- Power supply: 220V AC, 50/60Hz
- Accessories included: Head rest (double adjustment). Divided leg section (two pieces), leg plate (one piece), arm rest, body restraint strap, leg restraint, Anaesthetic frame, Wristlet, infusion rod, Leg support, Attachment Clamp (swivel type), pair of shoulder support
- Rack for accessories: Square-section tubular steel frame with 5 rails for attachment of accessories and 1 basket, stainless steel, antistatic castors, overall dimension: H x W x D = 1430 x 630 x 580

**ANNEX 2—SPECIFICATIONS**

**OPERATION THEATRE**  
**(continued)**

Infusion Pump:

- The volumetric infusion pump for routine tasks and intensive care medicine for use in all wards
- Microprocessor controlled
- Leakage current should be less than 10 micro ampere
- Delivery range 1-999 ml/hr



- Smallest entry step 1ml/hr or 0.1ml/hr in a range of 1.0-999ml
- Delivery precision +/- 5%
- Delivery volume pre-setting up to 999.9 ml
- Function spectrum/Safety system Stand by, chug selection, cc interface operation, pressure limit selection, deactivation of drop control, display of battery capacity, data clock.
- Permanent visualization of Delivery rate, current volume, pressure limit, battery or main driven, mains control, running control
- Info-query Infusion status. current and total volume remaining volume
- Mains/Battery operation
- Voltage 220V, 60Hz
- External low Voltage 12
- Battery type NiCd, rechargeable
- Battery operated time approx: 3.5 hrs

#### Syringe Pump:

- Setting for major syringe brands that is 10ml, 20ml, 30ml, and 50ml available in the market
- 0.1 to 200ml/hr with 10ml syringe. 0.1 to 300ml/hr with 20ml, 30ml or 50ml syringe
- Drive Accuracy +/- 1 %
- Volume Infused display 0.1 to 999.9ml
- With Alarm lamp and Audible alarm in case of small remains or having the problem not infusing
- With the rechargeable battery, battery time minimum 4hrs
- Power supply 240 Volts 60Hz.

#### Blood Warmer:

- Warmer for Blood and solution
- Enables to use for IV and Irrigation
- Flow range ml/min adjustable

## **ANNEX 2—SPECIFICATIONS**

### **OPERATION THEATRE**

#### **(continued)**

- Heat Exchanger technology and set-point temperature Dry heat and 38-40 respectively
- LED Display, temperature range 30 to 42 centigrade with the increment of 0.5 centigrade
- Primary temperature control by Microprocessor
- High temperature cut off at 41 Centigrade
- With High temperature alarm shall be audible, visual and alarm test
- With the IV pole attachment
- Power Supply 220 Volts, 50/60Hz

#### Stool, Anesthetist:

- Specially designed to use in operation theatre
- Mobile Swivel
- Construction of stainless steel 18/10
- On five castors

- Height adjustable 600 to 700 mm high
- Standing space 600mm diameter

Stool, Operating:

- Specially designed to use in operation theatre
- Mobile Swivel
- With round Seat & Back
- Construction of stainless steel 18/1 0
- Height adjustable 600 to 700 mm high
- Standing space 600mm diameter

Laryngoscope Set, Adult/Pediatric w/different blades:

- Size Standard
- Blade type Macintosh in quantity number three (3) Large, adult and child with Lamp installed
- Fitting Blade: hook on fitting
- Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating
- Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard)
- With four locked position light remains illuminated during changing from one position to another
- Blade is McCoy type
- Blade hook on fitting

**ANNEX 2—SPECIFICATIONS**

**OPERATION THEATRE**

**(continued)**

- Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubation
- Complete Set provided in Zippered Case

Table, Instrument:

- 18/10 Stainless steel frame, 18/10 S/S table top 600 x 400mm
- Non rotate able
- Height adjustable 900 to 1,320mm
- Plastic double castors diam, 50mm, Antistatic, Rustproof
- Nominal capacity 12 Kg

Stethoscope for Anesthetist:

- Recommended for use of Anesthetist
- Lithman (Only)
- Manufactured in USA or UK

Suction Machine Mobile:

- Mobile, on four castors antistatic, two of which lockable
- With the overflow safety and bacterial filter
- The air flow rate of the pump can be controlled by integrated regulating valve and vacuum display
- With two collection jars, three (3) liters, plastic, sterilize-able

- All parts which may come into contact with secretion for example collection jar and hoses shall be sterilize-able
- Suction hose: #6mm, length 1.30m and #10mm, length 2meter
- Size: H x W x D # 300 x 330 x 200 mm
- Operating time greater than 240 minutes without switch off at nominal voltage
- Power supply: 220V AC, 60Hz, 75W

Lamp, Ultraviolet:

- For Air Sterilizer
- Wall mounted
- Material stainless steel
- UV Radiation Intensity: total watts #72, micro W/sq cm at 1m # 20
- Slim-line tube, two tubes
- Expected life hrs. 7500
- Power supply: 220V AC, 50/60Hz

## ANNEX 2—SPECIFICATIONS

### AMBULANCE UNIT

Patient Bed:

- Provision for oxygen tank, IV pole and storage utility
- Casters diameter: 150mm with central locking system
- Provision for X-ray cassette. full length X-ray procedure can be carried out
- Protective bumpers
- Bed frame, steel frame work
- Finishing, scratch and chip resistant epoxy coating
- Safety friction lock tilting
- Hydraulic foot pedal controlled Hi-La position
- Collapsible side rail
- Mattress. water resistant

Wheel Chair:

- Folding wheel chair, detachable desk armrests, swinging detachable elevating adjustable height leg rests. safety belt
- Seat width 38cm and 43cm

Oxygen Flow Meter with Humidifier:

- Direct fitted to the Outlet (BOC British Standard), included with the Humidifier.
- Nickel-plated brass base and body
- Clear shroud
- Expanded lower scale 0-5Lpm

Suction Regulator:

- Included regulator, jars, probe (inlet fitting British standard), rail mounted, and hose.
- With overflow safety trap
- Internally well designed with the increments in cmH<sub>2</sub>O & kPa to give accurate vacuum by precision regulating diaphragm
- With two scales -mmHg and -kPa

- With three modes Off, On and Max.
- With the feature of positive pressure relief valve vents accidental positive pressure away from patient and system
- Two modes high continuous Gauge 0-100KPa
- Flow rate 0-80 l/min

Vital Signs Monitor, Wall Mounted:

- Parameters include ECG, NIBP, SpO<sub>2</sub>, Pulse rate and Temperature
- Large LED Display easily able to seen 3 meter distance

**ANNEX 2—SPECIFICATIONS**

**AMBULANCE UNIT**

**(continued)**

- Color Coding clearly presents parameters data second by second
- Built in Printer
- Internal rechargeable battery operating life Minimum two hour
- Technique Automatic Oscillometric
- Range 0-255 mmHg Accuracy +/- 2 mmHg
- Cuff inflation 3 to 20 seconds
- With Alarm for Systolic and Diastolic
- Pulse Oximeter Range 0-90 %, Resolution 1 %
- Accuracy +/- 2%
- Heart rate Range 0-250 bpm, Resolution 1 bpm. Accuracy +/- 1 bpm
- Power Supply 220 Volt 60 Hz

Defibrillator:

- Automatic defibrillator with digital monitor
- Equipped with adaptive for AED
- Energy Select: 2 to 360 Joules or user's configurable sequence
- Charge time to 360 joules in less than 10 seconds
- Distinct tone for Alert. charging, shock, Ready
- Defibrillator pads, solid gel type, self-adhesive disposable
- ECG Analysis available for monitoring and pulse oximetry
- Built in Battery: Rechargeable Nickel-Cadmium battery pack with capacity of 50 energy discharges or 3.5 hrs monitoring
- Digital chart recorder and built in printer
- Power supply 220V 60Hz

Resuscitator, Adult:

- Silicone Resuscitator w/ exceptional bag re-expansion and superior feel for lung compliance
- Fully autoclavable bag and Adult face mask (2 sets)
- Include with Oxygen Reservoir bag (2600ml), Silicone extension tube and complete with patient valve

Resuscitator, Pediatric:

- Silicone Resuscitator w/ exceptional bag re-expansion and superior feel for lung compliance
- Fully autoclavable bag and Adult face mask (2 sets)

- Include with Oxygen Reservoir bag (2600ml), Silicone extension tube and complete with patient valve

## **ANNEX 2—SPECIFICATIONS**

### **LABORATORY**

#### Hematology Analyzer:

- Performs automated blood counts for aspirating blood, dilution, measuring, calculations, print out and computer transfer
- Advance data management
- With two printer (Graphic and Ticket)
- Parameters shows on 14 inch screen
- Parameters WBC, LYM%, LYM#, MON#, GRA#, GRA%, RBC%, HGB, HCT, MCV, MCM, MCHC, RDW, PLT, MPV, PDW, PCT
- Histograms WBC, RBC, PLT (Three distribution curves)
- Power Supply 11 0V/220 Volts 50Hz or 60Hz

#### Chemistry Analyzer:

- Fully Automatic with a minimum operator involvement, fast and accurate results
- Dry Slide Technology
- Capable of performs over 35 tests including basic chemistries, Electrolyte, enzymes, esoterics and full lipid profile. (pH, H, pCo2, pO2, Na, K, Ca, Cl, Hct etc.)
- Analyze time 40 to 60 seconds
- Individual packaged test slide
- Sample type Whole blood. If plasma/serum required must be provided Centrifuge with machine and necessary requirement
- Sample 10 micro liters of serum or plasma
- Special chemistry test and Electrolytes separate modules connected to the Main System Analyzer
- Power Supply: 110V/220 V AC 50-60 Hz

#### Centrifuge, Bench Top:

- Compact Unit, Versatile
- Enable to use as Micro-Hematocrit Cyto centrifuge, included accessories
- Enable to use standard tube sizes
- With sixty minutes timer
- Display for time and speed
- Up to 12000 rpm enables to change by steps
- Automatically shut off the unit if sample load is not properly balanced
- Auto-dynamic Electric Braking
- All metal cabinet
- Exterior backed enamel finish
- Guard bowl Stainless Steel
- Power Supply: 220V AC, 50Hz or 60Hz

## **ANNEX 2—SPECIFICATIONS**

### **LABORATORY**

**(continued)**

### Microscope Basic:

- Combine advanced optics with the operating simplicity of a standard laboratory Microscope
- Long Ann design
- Well-Balanced Arm Perfect Positioning
- High-Intensity Halogen illumination
- Well-Balanced Arm Perfect Positioning
- Objective Lens  $f=200\text{mm}$
- Variable angle binocular tubes
- 12.5x eyepieces with a scale
- Included Lenses and necessary accessories
- Flatness of field, color correction and image quality superior to those obtainable with conventional achromatic system
- With the four objective
- With the capability variations to accommodate a wide a wide range (to advanced bacteriology)
- Rotate able Body: Inclined Monocular
- Automatic Linkage of illumination And Zoom Control
- Stage Plain with slide clips
- Focusable Revolving Nose Piece Double
- Condenser: in stage condenser and Disc Diaphragm
- In base illuminator with transformer
- Power supply 220 Volts 50/60 Hz

### Shaker:

- Double Deck, removable trays which hold up to forty six 10 ml Vacutainers
- Complete Silent
- Accepts tubes of any diameter up to 6"
- Shaking Speed from 22 to 70 reversible per minute
- Trays may be added or removed during operation

### Mixer:

- Continuous gentle mixing in hematology, chemistry research for blood samples
- Can hold serum bottles or other vessels, separately or collectively
- Top plate is robber dimple
- Power supply 220 Volts 50/60 Hz

## **ANNEX 2—SPECIFICATIONS**

### **LABORATORY** **(continued)**

### Rocker:

- Producing uniform, homogeneous test-tube specimens in hematology. chemistry and Urology
- 16-tube capacity
- Washable tube pad
- 24 rocking cycles per minutes
- Speed: 24 cycles per minutes
- Rocking platform can hold 16 standard test tubs up to 20 x 150 nun

- The friction-grip. silicon rubber cushion holds test tubes firmly in place and prevents bumping
- Capped test tubes can be easily loaded and 'unloaded' without turning the mixer off
- Power supply 220 Volts 50/60 Hz

Bath, Water:

- Bath Capacity 2.5 liter to 5 liters
- Temperature Range 40 to 260 Centigrade
- Bath Uniformity +/- 0.01 Centigrade
- Microprocessor controlled, Digital
- LED, display
- Adjustable High limit control 20 to 320 Centigrade
- Press pumps max. Flow 20 liters/min
- Suction Max. Flow 14 liters/min
- Enable to connect for programmer or Remote Control
- Enable to connect Remote Sensor
- Enable to connect recorder or visual/audio alarm
- Power Supply 220V AC, 50Hz or 60 Hz

Incubator, Electronic:

- Precision designed for smaller work load
- Temperature range +5 Centigrade to 70 Centigrade, with uniformity of +/- 1.0 Centigrade at 37 Centigrade
- Hydraulic thermostat to protect against temp overshoot
- Interior and exterior shall be enameled steel
- Inner glass door permit visual inspection of samples without disturbing contents or temperature uniformity
- Inside size 13" x 13" x 14"
- Power Supply 220V AC, 60Hz

**ANNEX 2—SPECIFICATIONS**

**LABORATORY**  
**(continued)**

Refrigerator, Low Temp (Freezer):

- Upright Freezer
- Adjustable Stainless Steel two Shelf
- 6 Cubic ft
- Storage for flammable or nonflammable material
- Enable to fit under the table
- Low noise Level (Better than 56 dB)
- Set Temperature +20 Centigrade to -16 Centigrade (+20C to -16C)
- Power Supply 220 Volt 50/60 Hz

Refrigerator:

- Upright Freezer
- Adjustable Stainless Steel two Shelf
- Storage for flammable or nonflammable material
- 6 Cubic ft

- Enable to fit under the table
- Low noise Level (Better than S6 dB)
- Set Temperature +2° Centigrade to +8° Centigrade (2°C to 8°C)
- Power Supply 220 Volt 50/60 Hz

Timer:

- With three functions: Single Action, Time In/Time Out and Continuous
- Timings read out to 59 minutes, 59 seconds and 9 tenths on LED
- With rechargeable battery with AC adapter
- Power Supply 220V AC, 50Hz or 60Hz (Adapter)

Distillation Unit:

- Produce two gallons of distilled water (Bio-pure water) per hour
- Wall fitted
- Distillate shall be pyrogen-free
- Included Storage Tank with a draw-off faucet
- Power Supply 220V AC, 50/60hz

Blood Bank Refrigerator:

- Compact Unit
- 8 cu. ft. to 10 cu. ft.
- Two Stainless Steel Drawers and with convenient flat counter Surface
- Dual Automatic controls and maintain cabinet temperature 2°c to 8°c centigrade

**ANNEX 2—SPECIFICATIONS**

**LABORATORY**  
**(continued)**

- Automatic off cycle defrost
- Neoprene thermo-break seat
- Audio/visual temperature monitor
- Condensate evaporator
- Included front, sides, top and interior or unit are stainless steel
- Back and bottom are galvanized steel
- Power supply: 220volts, 50/60hz

Urine Analyzer:

- Immediate start up the system as soon power turn on (with no warm up time or calibration required)
- Automatic Calibration
- Large display screen with touch-sensitive action streamlines operation
- Both tone and display guide operation through each stop
- Automatic sample color determination
- 500 Samples per hour
- Perform the multiple chemistry tests
- Bilirubin, Glucose, Ketone, leukocyte, Nitrite, occult blood, protein, specific gravity, pH
- Power Supply 100V/240, 50/60 Hz

Couch (for Blood Draw):



- Electrical operated through 3 independent 24V electric motors
- Four antistatic castors with the central locking system
- Arms rests can be adjusted in height and locked
- Power Supply 220V AC, 50/60Hz

#### Hot Air Sterilizer:

- Automatic hot air sterilizer assures that the temperature can reach in 5/8mins.
- Adjustable capillary thermostat 0- 210°C
- Adjustable manual timer from 10 min. to 120 min.
- Continuous service 24 hrs on 24 hour timer position
- Stainless steel chamber
- 3 stainless steel trays with 1 extractor for trays
- Suitable for laboratory instruments, glasswares, etc.
- Volume capacity: 40 to 50 liters
- Power requirements: 220volts AC, 50/60Hz

### **ANNEX 2—SPECIFICATIONS**

#### **STERILIZATION UNIT**

#### Sterilizer Unit, Steam:

- Cycles: Gravity and Vacuum combination-(121 °C Pre-vacuum, 134°C Pre-vacuum) Leak: Test and Bowie-Dick Test
- Impact Printer/Recorder of all pertinent cycle data, Data should be printed at the beginning and end of each cycle and at transition points during the cycle.
- Single Door, Power Door type, Stainless Steel chamber
- Automatic Controller
- Insulated Doors to reduce surface temperature of stainless steel door cover.
- Power supply, 380 3060Hz (to conform on site)
- Built in steam generator
- Chamber Size: 110 liters (or nearest volume available)
- Complete with loading trolley, trays and other accessories

#### Washer, Disinfecter:

- Electric Heated
- Floor Mounted
- Microprocessor Controlled
- Chamber Load Capacity 50 liters
- Vertical sliding power door constructed of tinted, tempered glass
- Door opened or closed automatically by using the touch pads on control board if power failure occurs door can be opened manually
- Pump powered by dual-speed motor
- Automatic detergent injection assures that the right amount of detergent is dispensed into the water
- Provided special enzymes pretreatment for a highly effective cleaning
- Heating system enables to be achieved high temperature (95 Centigrade) and maintained throughout the thermal rinse phase
- Drying temperature enables to set 66 Centigrade to 116 Centigrade
- Walls are well insulated for minimum heat loss
- Enable to complete the cleaning process within 26 to 33 minutes
- Complete with loading trolley, trays and other accessories.

Cleaner, Ultrasonic, Floor Mounted:

- Sonic cleaning chamber: 15 to 20 Liters
- Same size rinsing and drying chamber
- Bottom of the sonic chamber contains piezoelectric transducers powered by a solid-state Generator
- Resonant frequency of transducers 40 to 4S KHz

**ANNEX 2—SPECIFICATIONS**

**STERILIZATION UNIT**

**(continued)**

- Provided a radio frequency filter to prevent undesirable line feed back between the transducers plate and the bottom of the cleaning chamber
- Automatic lid opens at the end of cleaning process and closes by actuated kick plate electrically, Same function for rinsing and drying chamber
- Completely transistorized
- Power Supply 220 V AC 50/60Hz

**ANNEX 2—SPECIFICATIONS**

**PHARMACY**

Cabinet Medicine:

- Size: H x W x D = 1750 x 1000 x 450 mm
- Ground mounted, Heavy Duty
- Material should be Aluminum and painted

Storage Medicine Cabinet, Two Door:

- Two hinged sheet steel doors
- Powder coated, complete
- With lock, five adjustable plastic shelves
- Pull out shelf: plastic, guiding rails of sheet steel
- 14 adjustable plastic containers, set in the inner side of doors
- Size: H x W x D = 1750 x 1000 x 450mm
- Included One medicine compartment, lockable, sliding door
- Dimension of medicine cupboard: 330 x 945 x 265mm = D x H x W

Cabinet, Narcotic, Double Door, Wall Mounted:

- Wall mounted
- Constructed of steel
- 1 shelf, double door
- Meet safety to drugs law
- Lock able
- Dimension 257 x 347 x 298 (H x W x D)

Refrigerator, Pharmaceutical:

- Capacity 6 cu ft
- Lockable

- Adjustable thermo-state control form 1 centigrade to 10 Centigrade
- With display
- Temperature control +/- 0.5 centigrade at 4 centigrade
- 2" foamed-in-place polyurethane Insulation
- With 4 Shelves, space can be increase or decrease
- Vinyl, exterior coating, durable, chemical resistant
- Digital display temperature read out
- Built in chargeable battery for 24 hours to work capacity.
- Power Supply: 220V AC, 50/60Hz

## **ANNEX 2—SPECIFICATIONS**

### **PHARMACY** **(continued)**

#### **Counter, Tablet, Electrical Automatic, Bench Top:**

- Microprocessor controlled
- Hospital Module
- Bench top
- Enable to count 1 to 1000 tablets
- Accuracy 100%
- Power supply: 220V AC, 60Hz

#### **Bin, Unit Dose Medication, Medium:**

- Good quality Vinyl Plastic
- Unbreakable

#### **Bin, Unit Dose Medication, Large:**

- Good quality Vinyl Plastic
- Unbreakable

#### **Bin, Unit Dose Medication, Small:**

- Good quality Vinyl Plastic
- Unbreakable

## **ANNEX 2—SPECIFICATIONS**

### **OPHTHALMOLOGY CLINIC**

#### **Eye Examination System with patient chair, Ophthalmic Stand with overhead lamp and complete with slit lamp, Autokerato-refractomete, Phoroctor Unit and Autochart Projector:**

- Ophthalmic unit complete w/ ophthalmic stand w/ overhead lamp, patient chair, with lens bag.
- Table top w/ mechanical brake can hold Slit lamp and autokerato-refractometer
- Rigid scratch resistant base
- Fully integrated Main Control Panel for overhead lamp. chairs and instruments as well as the room Light
- Main power switch: 220VAC, 60Hz, 1.7KW

- PATIENT CHAIR
  - Electronically operated, Full reclining, Foldable armrest, and w/ footrest, Foot switch, up/down capability
- DOCTOR CHAIR
  - Swivel stool
  - 5-arm polished aluminum base with friction-braked double castors for smooth floors
  - Height adjustment by means of "anatomic-lift" gas spring
  - Leatherette upholstered seat w/ backrest
- VISUAL PROJECTOR
  - Auto chart projector
  - Remote control operation
  - 30 Test Charts Including "E": of different sizes
  - Projection Magnification 30X
  - With Horizontal line, Vertical Line and Single Character Masking
  - Enables to program to project specific sequence of Charts
  - With tilt function
  - With Polarized Metal Screen
  - Auto Shut-Off function
  - Illumination by Halogen Lamp
  - Power supply: 220V AC, 60Hz

## **ANNEX 2—SPECIFICATIONS**

### **OPHTHALMOLOGY CLINIC**

**(continued)**

- PHOROPTOR UNIT
  - Power range:
    - Myopia: 0 to -19.00D
    - Hyperopia: 0 to +16.75D
    - Astigmatism: 0 to -6.0 D, increased to -8.0D w/ accessory lens
  - Cross cylinder: +0.5D (+ 0.25D - optional)
  - Pupillary distance: 50 - 78mm
  - Automatic near-point convergence mechanism
  - Synchronized cross cylinders
  - Rotary prism available
  - Wide selection of auxiliary lenses
  - Sealed Lens systems for dust and finger prints
- AUTOKERATO-REFRACTOMETER UNIT
  - Spherical power range: - 25D to + 22D
  - Cylinder power range: 0 to + 10D
  - Axis: 0 to 180 degree
  - Minimal pupil diameter: 2.00mm to measure small pupil
  - Corneal curvature radius: 5.0 to 10.0 MM

- Corneal refraction: 67.5D to 33.75D
- PD measurement range 85mm maximum
- Rotary prism measuring to enable accurate and reliable data
- Auto measurement function
- Built in color LCD display and printer
- Stores measurement of each eye in memory
- Omni directional joystick enabling operation of the machine by one hand
- Corneal diameter measurement mode
- SLIT LAMP UNIT
  - Binocular Stereoscopic w/ erect image
  - Infinitely adjustable Slit width and length
    - Slit length: 1mm to 8mm
    - Slit width: 0 to 9 mm
  - Magnification: 10X to 25.6X
  - Eyepieces: 10X to 16X

## **ANNEX 2—SPECIFICATIONS**

### **OPHTHALMOLOGY CLINIC** **(continued)**

- Slit Beam Inclination: up to 20 degree
- Four built in printers: Cobalt blue, Red – free, Neutral density, and Heat absorbing

#### Ophthalmoscope, Indirect:

- Compact and light weight
- Enables to raise and lower the light source without converging the viewing optics
- Scratch resistant coated optic
- Brilliant natural halogen illumination
- Illumination rheostat shall be located on the hand band
- Built in UV, Blue and Red free filters
- Minimum pupil diameter: 2mm
- Pupillary distance adjustable from 52 to 76 mm
- Power supply: 220V AC, 60Hz
- Included carrying case. Battery pack set

#### Lensometer with Marking Device:

- Fully automated operation
- LCD display (320 x 240dot). showing the indication of Single, right-left, prism, addition, S.C.A, Abbe
- Built in Printer
- Enables to measure Frame Lenses, Contact Lenses. Bifocal and Progressive Lenses
- Identifies Progressive Lenses
- Spherical Power range: 0 to +/- 25D
- Cylinder Power range: 0 to +/- IOD

- Cylinder Axis range: 0 degree to 180degree
- Prismatic power 0 to 10 Prism
- Lens Diameter: 5 to 98mm
- Power Supply; 220V AC. 60 Hz

Lenses, Trial, Complete Set in Case:

- Included lenses, trial frame, accessories and case

Trial frame:

- Light weight durable metal construction
- Horizontal and Vertical frame
- Adjustable Mechanism assures comfortable nose fit of different sizes

**ANNEX 2—SPECIFICATIONS**

**OPHTHALMOLOGY CLINIC**

**(continued)**

- Separate PD adjustment for each eye
- Individual adjustment for Temple Length and angle
- Adjustment for rotating cylinder to correct the axis
- The frame on the ear is extendable or reduce able
- Space for setting 4 lenses at a time
- Scale with large, easy to read numerals

Trial lens:

- Lenses are marked on one side only to ensure correct position in the frame  
Lenses have sturdy, light weight aluminum rings that are different color coded and marked for fast, positive identification for minus, plus, prism and accessories
- Lenses cemented and firmly clamped to ensure precise alignment
- 260 Pieces of lenses
- Included prisms and accessories included, Stand with Carry Case
- On four castor, two castor brake able, Case removable from the stand

Sternest (Stereopsis Test Book or Drawing):

- Complete Kit
- Included glasses, book, occluder.
- Enable to use for adult and pediatric

Retino Scope:

- Enable to use either streak or spot beam with simple bulb change
- Neutralization check to allow rapid of neutralization in both streak and spot modes
- 360 degree access to single control for both rotation and convergence adjustment
- With rechargeable batteries
- Included table top Charger

Tonometer, Ophthalmic:

- Portable measurement of eye Intraocular Pressure
- Battery operated with digital display

Binocular Loop:

- Spectacle frame or head band mounted
- With three stages magnification 2.0X, 2.5X, 3.0X and wide range of working distances

**ANNEX 2—SPECIFICATIONS**

**OPHTHALMOLOGY CLINIC**

**(continued)**

- With optical alignment reduces eyestrain
- With Individual interpupillary adjustment allows adjustment allows more than one user's to benefit
- Constructed of high quality light weigh glass and light weight aluminum
- Flip-up magnification during when not in use

**ANNEX 2—SPECIFICATIONS**

**DENTAL CLINIC**

Dental Chair Unit, Complete:

- Dental Chair:
  - Chair base
  - Back rest
  - Headrest: push headrest in or pull it out to suit the patient height. Bring the headrest to the desired position.
  - Armrest: easier for the patient to get into dental chair, the arm rest can be swiveled upward.
  - Seat adjustment control
- Unit base:
  - Supply element: connection of electric (110/220 volts, 50/60Hz)
    - Water pressure: 2.5 - 6bar
    - Air pressure: 5.2 - 7bar
    - Suction air:  $\geq$  65mbar at inlet
    - Waste water drainage
  - Main fuse
  - Main switch
- Unit body w/ Patient Parts:
  - Spittoon
  - Tumbler filler
  - Central control is housed in the unit body Pressurized water bottle
  - Footswitch controller
- Assistant elements:
  - Three function Syringes
  - Suction tubing
  - Comfort keypad and display
  - Saliva ejector
  - PolyLux handpiece
- Dentist elements:
  - Three function Syringe
  - Keypad and display

- Locking brake
- Compact X-ray viewer
- Tray support
- Scaler
- Alternatively intra Lux motor Turbine

## **ANNEX 2—SPECIFICATIONS**

### **DENTAL CLINIC** **(continued)**

- Keypad Functions:
  - Group A:
    - Dental chair up or automatic position
    - Dental chair down or automatic position (rinse position)
    - Backrest up or automatic position
    - Backrest down or automatic position
    - Last position or automatic position
  - Group B:
    - X-ray viewer
    - Flushing of spittoon bowl
    - Tumbler filler
    - Cold light at the instrument
    - Spray selection at the removed instrument
    - Motor reserve pre-selection treatment light ON when instrument set down
    - Dental chair plate safety switch
- Dental Chair/Foot Control:
  - Foot control switch for chair up, down, backrest up, backrest down, load position automatic operation
- Dental Unit Foot Control
  - Switch for foot control "ON" of the unit, spray indication, ccw/cw motor operation
- Dental Light:
  - The Lighting unit has removable (autoclave-able) handles
  - Light output of 25000 lux, highlight performance fan cooled bulb ensures optimum illumination that is indistinguishable from natural daylight.
- Dental Stool:
  - Doctor Stool
    - Cast aluminum base with five casters
    - Seamless upholstery
    - Integral gas cylinder for height adjustment
    - Two way adjustable lumbar support
    - Seat height range 18.0 inch - 25 inch (470mm-635mm)
  - Assistant stool:
    - Cast aluminum base with five caster
    - Seamless upholstery
    - Integral gas cylinder for height adjustment
    - Height adjustable torso support

## **ANNEX 2—SPECIFICATIONS**

### **DENTAL CLINIC**



**(continued)**

Height adjustable foot ring  
Seat height range: 22 inch - 29 inch (572mm-737mm)

**Amalgamator:**

- Microprocessor controlled
- Touch pad controls
- Led Display
- Programmable preset memories
- Spring tensions, molded capsule holder
- Timer 1-30 seconds
- Cycle speed 4200 CPM - 3600 CPM
- Sealed mix area
- Accepts all types of capsules including amalgam and ionomer
- Power requirements: 110 volts/220volts, 50/60Hz

**Light Curing Unit:**

- 450mw / cm<sup>2</sup> minimum curing output
- 3 to 13mm light guide selection
- 360 rotation light guide
- Autoclavable and sterilizeable light guide
- 100 hours lamp life
- Ultraquite cooling fan
- Pistol handpiece with trigger activated blue light
- Audible tones every ten seconds for curing time control
- Eye protection shield

**Film Processor, Dental:**

- Daylight dental film processor with automatic program control
- Removable baths for developer, fixer and water for cleaning
- Inclined viewing window for easier observation of internal working process
- Thermostatically-controlled bath heating and film drying
- Complete with film clip for all miniature format and standard intra-oral film
- Power supply: 110v/220volts, 50hz/60hz

**Dental X-Ray Unit:**

- Wall mounted w/ 45 or 90cm extension arm, folding arm
- Compatibility with Digital Intra Oral Radiology machine
- Automatic set up of working conditions by selections of patient size (child or adult), and tooth type

**ANNEX 2—SPECIFICATIONS**

**DENTAL CLINIC**  
**(continued)**

- Tube head is equipped w/ beam limiting device (collimation) and a tiny focal spot compatibility with Digital Intra Oral Radiology machine
- Microprocessor controlled electronic timer
- Digital display of exposure time in seconds

- Special low dosage switch to work w/ digital imaging sensor.
- Safety leakage radiation
- Mains voltage (selectable 110volts/220 volts, 50/60Hz w/ +/-10% correction of mains fluctuation)

Dental Scaler Unit:

- Titanium hand piece for cool and long life operation
- Powerful scaling for the most stubborn stains and calculus
- No heat generation of hand piece even under persistent use
- User control of delivered power and water supply
- Equipped w/ endodontics function providing easy and rapid root canal enlargement and treatment
- Standard accessories: Hand piece, 3 tips, torque wrench, foot switch, power cord and hose
- Output frequency: 29khz, Delivered power: 20 watts, Hand piece cable: 2.5m
- Mains supply: 100 - 240volts, 50/60Hz

Dental Cabinet System with Sink:

- Made of electrogalvanized, cold rolled steel
- The work tops are made of post-form laminated scratch-proof plastic
- Equipped w/ sink - a long lever mixer faucet for hot/cold water, and a waste bin

Dental Instrument Table, Mobile:

- Made of electrogalvanized cold rolled steel
- Four (4) drawers with locking mechanism and locking castors

Ultrasonic Cleaner:

- Provides quick, effort less and thorough cleansing of delicate difficult to clean dental instruments
- Cleaning temperature: 10°C to 70°C
- Power requirement: 110V/220V, 50/60hz

**ANNEX 2—SPECIFICATIONS**

**DENTAL CLINIC**

**(continued)**

Autoclave Unit, Dental:

- Capacity 17 liters (Bench top)
- Microprocessor management and digital display
- Automatic functioning
- Thermodynamic initial vacuum
- Thermal drying system
- Fully automatic chamber water filling and safety mechanism

**ANNEX 2—SPECIFICATIONS**

**ENT CLINIC**

#### ENT Treatment Unit, Complete:

- Ergonomic arrangement of mirror heating, light source switching and control for suction and compressed air
- Central operating and display panel
- Automatic control of all pumps and light sources
- Suction performance (max. 55 li/min) for all ENT applications
- Maintenance free and vibration free suction pump
- Service compartment of pump area easily accessible for doctor and staff
- Endoscope storage with integrated heating and optical system/ lightsource
- Connection for head lamp! Nystagmus binoculars complete with headlamp suspension automatic switching function of the light source
- Cabinet with two fold instrument deposit with subjacent writing and working plate with integrated tongue patches and swab dispenser
- Integrated removal deposit tray for used instrument and for safe hygienic instrument management
- Endoscopy programme to document and visualize doctors finding
- Microscopy integration with light source control on the tmit and expandable with camera system and LCD Oat screen
- Ear and hose rinsing system, independent of water supply and waste water connection and complete with general accessories.
- Adjustable power source for warm light headlamp, cauterization and complete with accessories
- Patient Chair, electromotive height adjustment, rotary seat
- Doctor Chair with height adjustment and back rest

#### Audiometer, Clinical:

- Large backlight graphical LCD display
- True two channels include microphone, assistant phone
- Automatic data transfer to computer and data printer
- Test signals: pure, pulse, warble tone, narrow band, white and speech masking noise with two channels
- Inputs: CD/Tape, stereo live speech microphone, external masking, patient microphone, patient response switch
- Air conduction range: -10 to 120dB, include headphone
- Bone conduction range: -10 to 70db
- High tone audiometry for AC to BC 16khz
- Free field range: -10 to 90dB at 1m distance include speaker 120dB
- Selectable range of Test frequencies

### **ANNEX 2—SPECIFICATIONS**

#### **ENT CLINIC** **(continued)**

#### Middle Ear Analyzer:

- Fast, full automatic tympanometric test
- Ipsi and contralateral reflex test with 4 frequencies
- Reflex test with adjustable levels from 70 to 10Sres. 70 - 110db or automatic
- Reflex decay testing, Eustachian tube function test
- Fast integrated printer and PC interface

## **ANNEX 2—SPECIFICATIONS**

### **X-RAY**

#### **X-Ray Unit, General:**

- Adjustable Patient Table variable from 59 to 89 cm with foot control pedal located on both front and rear of table to allow easier patient positioning
- Longitudinal/lateral electromagnetic and electromechanical locks to provide safety and security
- Floor mounted tube radiography system allow easy positioning with flexibility and functionality to accurately position the tube in all radiographic procedures
- Bucky wall stand (adjustable height) with cassette function using automatic cassette size sensing
- Collimator (manual or automatic) which effectively limits the field of exposure during radiography and an easily changeable collimator bulb
- Frequency generator available in 4 power configurations of 30/ 50/ 65/ 80KW
- Self calibrating variable frequency operation delivers higher accuracy, shorter exposure time and lower patient dose
- Control-console includes manual mode technique and parameter control, anatomical programmer, and automatic exposure control

#### **X-Ray Film Processor, Bench Top:**

- Rapid processing cycles for fully processed 35x43 cm (14x17 in) radiograph, dry and ready to read
- Automatically feeds exposed films into the processor
- Processing tanks molded in polyurethane with three sections for developer, Fixer And washer
- Thermistor/logic circuit, water heat exchanger, and developer recirculation system control developer temperature to +/- 2°C
- Dryer temperature control is thermostatically controlled and easily adjustable
- Automatic standby control when no film is processed and reduces water consumption.
- Power requirements: 110volts/220volts, 50/60hz

#### **X-Ray Film Viewer, Double:**

- White enameled steel casing
- Edge to edge viewing
- Clear Perspex spring-loaded film clips
- Twin Tropical Daylight tubes with illuminated switching per panel
- Dimensions: Height x Width = 505 x 724 mm
- Power Supply: 110V/220VOLTS, 50/60HZ

## **ANNEX 2—SPECIFICATIONS**

### **X-RAY**

#### **(continued)**

#### **Apron Patient Protective:**

- Flexible lead rubber in tear resistant plastic cover
- Sleeveless, half length at back
- Fastening with crossed elastic straps with Velcro end

- 0.5 lead thickness for small, medium and large sizes

X-Omatic Identification Camera, Digital:

- Enables to print patient data digitally with the all types of cassette
- Portable and built in battery power
- Adjustable exposure light intensity
- Films and Cassettes: all 15mm cassettes with standard ID window Film size: all film types
- Imaging: Enables to both black on white and white on black exposures
- Characters: Standard font: 4 lines of 38 characters Larger font: 4 lines of 28 characters

## **ANNEX 2—SPECIFICATIONS**

### **PRIMARY CARE CLINIC**

Examination Table:

- Rectangle steel tube frame, chromium plated
- 2 section
- 70 mm thick foam rubber upholstery
- Reclining head section
- Adjustment by means of clamp lever
- With leveling feet
- Included paper roll holder, 500 mm wide
- Dimension: 650 x 1950 mm

Vital Signs Monitor:

- Parameters include NIBP, SpO<sub>2</sub>, and Temperature, Pulse rate.
- Large LED Display able to be seen 1 meter distance
- Color Coding clearly presents parameters data second by second
- Built in Printer
- Internal rechargeable battery operating life Minimum One hour
- Technique Automatic Oscillometric
- Range 0-255 mmHg Accuracy +/- 2 mmHg
- Cuff inflation 3 to 20 seconds
- With Alarm for Systolic and Diastolic
- Pulse Oximeter Range 0-90 %, Resolution 1 %
- Accuracy +/- 2%
- Heart rate Range 0-250 bpm, Resolution 1 bpm, Accuracy +/- 1 bpm
- Power Supply 220 Volt 60 Hz

Suction Regulator:

- Included regulator, jars, probe (inlet fitting British standard), rail mounted, and hose.
- With overflow safety trap
- Internally well designed with the increments in cmH<sub>2</sub>O & kPa to give accurate vacuum by precision regulating diaphragm
- With two scales -mmHg and -kPa
- With three modes Off, On and Max.
- With the feature of positive pressure relief valve vents accidental positive pressure away from patient and system

- Two modes high continuous Gauge 0-100KPa
- Flow rate 0-80 l/min

## **ANNEX 2—SPECIFICATIONS**

### **PRIMARY CARE CLINIC** **(continued)**

#### OTO/Ophthalmoscope:

- Diagnostic Set
- Battery Handle with chargeable batteries
- Charging holder with the transformer
- Ophthalmoscope with halogen bulb
- Otoscope head with halogen bulb
- One each reusable ear speculum sizes: 2, 3, 4 and 5mm
- Five each disposable ear specula 2.5 and 4.0 mm
- One magnifying glass for operation 2.5
- With spare bulb

#### Thermometer Electronic:

- Liquid Crystal Display
- Enables to read in Celsius/Fahrenheit
- Probe storage
- Temperature range: 31.6 centigrade to 42.2 centigrade  
88.9 Fahrenheit to 108.0 Fahrenheit
- Accuracy +/- 0.1 C +/- 0.2 F
- Information display, Monitor mode, rechargeable battery, return to base charger, battery low, Broken probe
- Power requirements: 220volts AC, 50/60hz

#### Gulcometer:

- Hospital Module
- Enable to use individual strip
- Built-in rechargeable batteries and with battery charger
- Power Supply 220V AC, 60Hz

#### Scale Standing Digital:

- Electronic Scale with large display
- Enables to show TARE, HOLD and BMI
- Graduation 100 gm/ 0.2 Lbs
- Enable to switch over to lbs-kgs
- With Transport Castors
- With rechargeable batteries, built in adopter
- Power Supply 220 V AC, 60Hz

## **ANNEX 2—SPECIFICATIONS**

### **PRIMARY CARE CLINIC** **(continued)**

#### Suction, Portable:

- Air flow rate: 18 l/min
- Vacuum-meter: 0 to 1 Bar
- 1.5 liter bottle
- With Grip & Bacterial filter
- Suction device sterilize-able
- Over flow protection
- Two meter silicone-suction tubing
- Dimension approx: W x H x D = 320 x 140 x 255
- Rechargeable built in battery
- Approx. Weight: 3 to 4 Kg
- Power Supply 220 Volts 60 Hz

Examination Light:

- With the stand and four Castor made of quality material
- Base Five arm on Castors
- Flexible (Swan neck system)
- Chromium-plated arm
- 50W Halogen cool bulb, provided spare Bulb
- Built in Auto transformer
- Power Supply 220V AC, 60Hz

Laryngoscope Set:

- Size Standard
- Blade type Macintosh in quantity number three (3) Large, adult and child with Lamp installed
- Fitting Blade: hook on fitting
- Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating
- Uses four different angles between the blade and handle i.e. 90 degree, 45degree, 180 degree and 135 degree (Standard)
- With four locked position light remains illuminated during changing from one position to another
- Blade is McCoy type
- Blade hook on fitting
- Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubation
- Complete Set provided in Zippered Case.

## **ANNEX 2—SPECIFICATIONS**

### **PRIMARY CARE CLINIC** **(continued)**

X-Ray Viewer, Single:

- White enameled steel casing
- Edge to edge viewing
- Clear Perspex spring-loaded film clips
- Twin Tropical Daylight tubes with illuminated switching per panel
- Dimensions: Height x Width = 505 x 724 mm
- Power Supply: 220Volts, 50/60hz

Oxygen Flow Meter with Humidifier:

- Direct fitted to the Outlet (British Standard), included with the Humidifier.
- Nickel-plated brass base and body
- Clear shroud
- Expanded lower scale 0-5Lpm

Sphygmomanometer, Wall Mounted:

- Wall mounted or rail fitted as hospital requirements
- 6 in. to 8 in. diameter anemometer
- 7ft extendable neoprene tubing
- Easily read scale
- Pair of cuff for adult and child
- Cuff able to fits neatly at instrument grilled basket

**ANNEX 2—SPECIFICATIONS**

**IN-PATIENT UNIT**

Patient Bed, Electric:

- Integrated collapsible side rail w/ control and Foot Board control with lock out
- Electrical Controlled Movement: Bed up/down: 74cm/36cm  
Backrest: 0 - 65 Deg  
Knee Gatch: 0 - 24 Deg  
Trend/Rev. Trend: +/- 14Deg
- Weight Capacity: 500lbs (228kgs)
- Supplied with Bedside cabinet and Table Top Server
- Power requirements: 220 volts, 60 HZ
- Lowest Height of 13.5 inch (34.30 cm), enhances patient safety
- Mobile on four double castors to be activated by foot pedal.
- Complete w/ IV receptacle and IV pole

Vital Signs Monitor with Trolley:

- Parameters include ECG, NIBP, SpO<sub>2</sub>, Pulse rate and Temperature
- Large LED Display easily able to seen 3 meter distance
- Color Coding clearly presents parameters data second by second
- Built in Printer
- Internal rechargeable battery operating life Minimum two hour
- Technique Automatic Oscillometric
- Range 0-255 mmHg Accuracy +/- 2 mmHg
- Cuff inflation 3 to 20 seconds
- With Alarm for Systolic and Diastolic
- Pulse Oximeter Range 0-90 %, Resolution 1 %
- Accuracy +/- 2%
- Heart rate Range 0-250 bpm, Resolution 1 bpm, Accuracy +/-1 bpm.
- Power Supply 220 Volt 60 Hz

Infusion Pump:

- The volumetric infusion pump for routine tasks and intensive care medicine for use in all wards
- Microprocessor controlled
- Leakage current should be less than 10 micro ampere



- Delivery range 1-999 ml/hr
- Smallest entry step 1ml/hr or 0.1ml/hr in a range of 1.0-999ml
- Delivery precision +/- 5%
- Delivery volume pre-setting up to 999.9 ml

## ANNEX 2—SPECIFICATIONS

### IN-PATIENT UNIT (continued)

- Function spectrum/Safety system Stand by, drug selection, cc interface operation, pressure limit selection, deactivation of drop control, display of battery capacity, data clock.
- Permanent visualization Delivery rate, current volume, pressure limit battery or main driven, mains control, running control.
- Info-query Infusion status, current and total volume remaining volume.
- Mains/Battery operation
- Voltage 220V, 60Hz
- External low Voltage 12
- Battery type NiCd, rechargeable
- Battery operated time approx: 3.5 hrs
- Mains/Battery operation
- Voltage 220V, 60Hz
- External low Voltage 12
- Battery type NiCd, rechargeable
- Battery operated time approx: 3.5 hrs

#### Oxygen Flow Meter with Humidifier:

- Direct fitted to the Outlet (British Standard), included with the Humidifier.
- Nickel-plated brass base and body
- Clear shroud
- Expanded lower scale 0-5Lpm

#### Suction Regulator:

- Included regulator, jar, probe (inlet fitting British standard), rail mounted, and hose.
- With overflow safety trap
- Internally well designed with the increments in cmH<sub>2</sub>O & kPa to give accurate vacuum by precision regulating diaphragm
- With two scales -mmHg and -kPa
- With three modes Off, On and Max.
- With the feature of positive pressure relief valve vents accidental positive pressure away from patient and system
- Two modes high continuous Gauge 0-100 KPa.
- Flow rate 0-80 l/min

### Annex (3)

#### Specification of a long chassis truck 6 x 4

Item	Manufacturer	Model	Description
Qty			

Number	Country		
Long 27 Chassis Truck	Freightliner U.S.A.	4900	<p><b>Engine:</b> Diesel engine (turbo charger)</p> <p><b>Number of cylinders:</b> Minimum 6</p> <p><b>Horsepower:</b> 400 minimum</p> <p><b>Engine cooling:</b> via cooler not less than 100 liters in capacity</p> <p><b>Gearbox:</b> full automatic with 16 F speeds</p> <p><b>Tires and rims:</b> minimum 6 tires plus a spare tire fitted with loading and unloading winch</p> <p><b>Diesel tank:</b> capacity minimum 400 liters</p> <p><b>Steering wheel:</b> hydraulic 3 year warranty 10 year parts availability</p>

**Annex (4)**  
**Specification of a Forklift**

Item Qty Number	Manufacturer Country	Model	Description
Forklift 3	Hyster U.S.A.	P300	<p><b>Load:</b> 12 ton which it can lift up to 3 meters</p> <p><b>Engine:</b> Diesel engine with 160 HP at least</p> <p><b>Number of cylinders:</b> 6</p> <p><b>Fork:</b> Length minimum 2 meters. Can be moved right and left. Height up to 4 meters, thickness minimum 82 mm. Width minimum 180mm.</p> <p><b>Fuel:</b> Diesel</p>

**Safety System:** The equipment will not move until after the driver has sat on the driver's seat.

Can be shipped on C 130 aircraft. That means its width is not more

than

2.4 meters and its height is not more than 2.4 meters.

**Annex (5)  
Specification of trailers (low beds)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>Low bed</b>	<b>3</b>	Fontaine U.S.A.	Lowboy	<p><b>Design:</b> low bed</p> <p><b>Capacity:</b> 60 tons</p> <p><b>Suspension system:</b></p> <ol style="list-style-type: none"> <li>1. Tri-axel, 16000 kg each (48000 kg for all axels)</li> <li>2. Leaf spring</li> <li>3. (12) Michelin tires, size 12R 20, double configuration for each end designed for paved and unpaved roads (highway and off highway use).</li> <li>4. (2) spare tire with the same above mentioned specifications</li> </ol> <p><b>Dimensions:</b></p> <ol style="list-style-type: none"> <li>1. Low bed length (15m)</li> <li>2. Low bed width (3.2m)</li> <li>3. Deck height not exceeding (1.25m) without load</li> </ol>

**Annex (5)  
Specification of trailers (low beds)  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
------------------------	------------	---------------------------------	--------------	--------------------

**Brake system:** Two lines air brake systems works on all tires.

Additional manual brakes during stop.

**Kingpin:** 3.5 inches, fixed on the upper sliding plate (gooseneck).

**Front legs:** High performance, mechanical, two speeds, flat stands.

**Electrical system:** 24V electrical system. Trailer shall be fitted with rear lights, signal lights and side lights.

**Accessories:** The trailer must be fitted with the following:

1. (2) spare tire holders
2. (2) tire rooming
3. Mud flaps set
4. Lockable toolbox

**Annex (5)**  
**Specification of trailers (low beds)**  
**(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
				5. Sixty liter potable water tank
				6. Tire replacement tools containing an additional long rod for lifting during removal/replacement. Hydraulic jack capable of lifting (1) loaded axle.
				7. Set of (6) connecting chains (6m) each including drops. Each chain must bear at least (10) tons.
				8. (2) air connecting points on both right and left sides above the axles. Air points disconnects quickly and are linked to the trailer's air system.

9. Air hose, minimum length (5m)  
fitted with a (male) fast connecto **Annex (5)**

**Specification of trailers (low beds)  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
				<p>Tire air pressure gauge containing both systems and clear numbering and ranges between 0 and 160 PSI.</p> <p><b>Towing tools:</b> Trailer shall be fitted with a towing winch at the front of the low bed (fixed) to tow vehicles. Capacity 25 tons. <b>Annex (6)</b></p>

**Specification of a Flat Bed Trailer**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>Flat Bed</b>	<b>3</b>	Chaparral U.S.A.	2001	<p><b>Length:</b> 12.5 meter</p> <p><b>Height:</b> Not more than 1.25 from the ground.</p> <p><b>Axles:</b> 2 axles with 4 tires each, long springs.</p> <p><b>Resting legs:</b> Front, match loads, works with two speeds, flat base.</p> <p><b>Flatbed width:</b> 3 meters</p> <p><b>Base:</b> The main cover of iron sheet granular not less than 5mm thick, longitudinally welded in full without voids.</p>

**Specification of a Flat Bed Trailer  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
				<p><b>Towing pin:</b> 3.5 inches fixed on the upper sliding plate (gooseneck).</p> <p>High quality paints treated for harsh climatic resistance.</p> <p>(2) spare tires.</p> <p>Potable water tank and tool boxes.</p> <p>Side climbing ladders to the flatbeds.</p> <p>5-year warranty of welding and compiling works and a 1-year warranty</p> <p>on the support legs and hydraulic system.</p> <p>Matching illumination and signal system.</p>

**Annex (6)  
Specification of a Flat Bed Trailer  
(continued)**

<b>Item Number</b>	<b>Qty</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
				<p>Airbrakes for axles.</p> <p>Electric link system with towing heads.</p> <p>Additional loading chains.</p> <p>Chassis 40 cm.</p>

**Annex (7)**  
**Specification of a Refrigerator Truck**  
**The vehicle comprises a chassis + box + a refrigeration unit**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Qty</b>	<b>Unit Price</b>	<b>Total Price</b>	
<b>Number</b>	<b>Country</b>		
<b>(USD)</b>	<b>(USD)</b>		
<b>Vehicle</b>	Freightliner/	M2106	1. Engine: diesel 6 cylinder
<b>6</b>			
<b>Specifi-</b>	Mercedes		2. Engine power: minimum 120
<b>cations</b>	U.S.A.		horse
			3. Cooling: water cooling specially
			designed for hot regions.
			4. Steering: power steering.
			5. Tires: (6) tires + spare tire of the
			same size and best international
			quality brands.
			6. Location: rear
			7. Fuel tank capacity: 100 liter
			minimum
			8. Gear: floor (ground) engagement
			–
			5 speed and one rear speed.
			9. Brakes: hydraulic
			10. Payload: 5 tons minimum
			11. Chassis length: minimum 5 m
			12. General fittings: first aid kit +
			warning triangle + fire
			extinguisher

**Annex (7)**  
**Specification of a Refrigerator Truck**  
**The vehicle comprises a chassis + box + a refrigeration unit**  
**(continued)**

<b>Item</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>
<b>Qty</b>	<b>Unit Price</b>	<b>Total Price</b>	
<b>Number</b>	<b>Country</b>		
			+ tire air pressure gauge meter
			13. Latest model: 2008
<b>The Box</b>			1. Length: minimum 5 meters
			Width: minimum 2 meters

- Height: minimum 2 meters
2. Special material (wood of appropriate thickness or other) between the vehicle's main chassis and the box's chassis to absorb shocks.
  3. Doors:
    - (2) rear doors at the full box opening
    - (1) side door for necessary loading and unloading
 Galvanized, pre-painted metal sheets from inside and outside.

**Annex (7)**  
**Specification of a Refrigerator Truck**  
**The vehicle comprises a chassis + box + a refrigeration unit**  
**(continued)**

Item Number	Qty Country	Manufacturer	Model	Description
				<ol style="list-style-type: none"> <li>4. The iron used inside the walls, floor and doors shall be galvanized stainless steel.</li> </ol>
				<b>Refrigerator Specifications</b> <ol style="list-style-type: none"> <li>1. Works by vehicle engine and without it.</li> <li>2. Sufficient to cool the box.</li> <li>3. Of a known brand.</li> <li>4. Cooling temperature ( 5-20C )</li> </ol>
				<b>Other Specifications</b> <ol style="list-style-type: none"> <li>1. Install a rear bumper of hard iron to protect the box from shocks.</li> <li>2. Install mud flaps to protect rear tire from mud.</li> <li>3. Internal light (2) lamps. External front light (2) lamps, all controlled from driver's cabin.</li> </ol>



**Annex (8)**  
**Service Vehicle Specifications**

<b>Item Qty Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>Service 12 Vehicle</b>	General Motors U.S.A.	XL1500	<ol style="list-style-type: none"> <li>1. (8) cylinder, 4.5 liter at least, 250 HP minimum power.</li> <li>2. (4) doors.</li> <li>3. Automatic gearbox.</li> <li>4. Electronic fuel injection.</li> <li>5. Aircushion for driver and front passenger.</li> <li>6. ABS brake system.</li> <li>7. Hydraulic steering wheel.</li> <li>8. Electric side mirrors</li> <li>9. Electric window glass.</li> <li>10. Central locks.</li> <li>11. Hot/Cold AC.</li> <li>12. Speed fixer.</li> <li>13. Radio cassette.</li> <li>14. Latest model: 2008</li> <li>15. 3 year warranty <b>Annex (9)</b></li> </ol>

**Four-wheel drive Vehicle Specifications**

<b>Item Qty Number</b>	<b>Manufacturer Country</b>	<b>Model</b>	<b>Description</b>
<b>Four- 3 Wheel Drive Vehicle</b>	General Motors U.S.A.	XL2500	<p><b>Speeds:</b> 5 speeds manual.</p> <p><b>Passenger Number:</b> 7 passengers minimum.</p> <p><b>Fuel:</b> Benzene</p> <p><b>Fuel tank capacity:</b> two tanks, main and spare, total tank capacity 130 liters.</p> <p><b>Other specifications:</b> 4 doors. Hydraulic, adjustable steering wheel. Front adjustable mattresses.</p>

Hot/Cold AC.  
Radio cassette.  
Aircushion for driver and front  
passenger.  
Central locks.  
Electric window glass.  
3 year warranty.

**Shipping / Delivery / Set-Up**

<b>Item Number</b>	<b>Specifications</b>	<b>Qty</b>
1	Trailer / Hospital	1
2	Generator	1
3	Tanker (fuel)	1
4	Trucks / autos	1
5	Miscellaneous containers	1
6	Additional shipping	1
7	Crates / Shipping Materials	1