# Technical Specifications

## Medical Equipment for Global Fund

<table>
<thead>
<tr>
<th>ITEM :1</th>
<th>DIAGNOSTIC SET OPHTHALMOSCOPE/ OTOSCOPE</th>
<th>QTY :10</th>
</tr>
</thead>
</table>

**SPECIFICATIONS:**
- Good brand
- Portable (hand held)
- Case type
- Including the following:
  - Ophthalmoscope
  - Otoscope complete with handle and earring heads
  - Ophthalmoscope lamp
  - Otoscope lamp

Complete with all accessories and consumables needed to work completely as specified

**OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:**
- Ophthalmoscope lamp
- Otoscope lamp

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- Country of origin and source (clarification certificate), date of start manufacturing this model, and date of last upgrading, are clear in the offer
- New catalogue is attached with the offer, including data sheet.
- Warranty two years from installation or 30 months from delivery at least
- Warranty for not less than 10 years for spare parts.
- Prices for all mentioned accessories and spares.
- Service and operation manuals original and copy (2 sets in English) are included
- Certificates (agency approvals): FDA, TUV, CSA, UTRL, CE will be taken into consideration, the offer must include the certificates for evaluation
- The equipment must pass the acceptance test of MOH biomedical Engineering unit
ITEM :2 | ADULT SCALE | QTY :10

**SPECIFICATIONS :**
- Mechanical scale.
- Capacity: 140kg x 100g.
- High rod included.
- Hand post included.
- Wheels for transportation.
- Platforms cover.

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### Technical Specifications:

**ITEM :3**
EMERGENCY TROLLEY COMPLETE

**QTY :10**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Backboard</td>
<td></td>
</tr>
<tr>
<td>Iv pole holder</td>
<td></td>
</tr>
<tr>
<td>Two small drawers with partitions</td>
<td></td>
</tr>
<tr>
<td>One large drawer</td>
<td></td>
</tr>
<tr>
<td>Defibrillator swing arm</td>
<td></td>
</tr>
<tr>
<td>Lockable drawer for dangerous drugs</td>
<td></td>
</tr>
<tr>
<td>Mobile on 4 castors with break mechanism</td>
<td></td>
</tr>
<tr>
<td>Oxygen tank holder</td>
<td></td>
</tr>
<tr>
<td>Drawer cassette for top cavity</td>
<td></td>
</tr>
</tbody>
</table>

Complete with :-

- O2 cylinder complete with regulator flow meter and mask
- Diagnostic set
- Laryngoscope
- Fully catheters all sizes 10 each
- Ambo bag set silicon infant, child, adult
- Dressing set (specify)
- Endotrachial tube all sizes 10 each

Complete with all accessories and consumables needed to work completely as specified

**OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:**

- Diagnostic set
- Laryngoscope
- Fully catheters all sizes 10 each
- Ambo bag set silicon infant, child, adult
- Dressing set (specify)
- Endotrachial tube all sizes 10 each

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ITEM : 4  SPHYGMOMANOMETER WALL TYPE  QTY : 20

**SPECIFICATIONS:**
- GOOD BRAND
- Wall type
- Mercury
- Including cuff and tubes
- Including basket

Complete with all accessories and consumables needed to work completely as specified

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ITEM : 5 SUCTION MACHINE QTY : 20

**SPECIFICATIONS :**
- Front panel with transported handle
- 2 Jars, 2Lt. Each at least
- Mobile with 4 Casters
- Noise level : less than 50 dB
- Operating time: continuous operation
- Air flow rate of pump: around 35L/min
- Power: 220V/50Hz
- Filters and tubes are included
- Vacuum adjustment
- Vacuum gauge is included

Complete with all accessories and consumables needed to work completely as specified

**OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY :**
- JARS
- FILTERS

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<table>
<thead>
<tr>
<th>ITEM</th>
<th>STETHOSCOPE</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS:**
- Chrome-plated, Dual-head chest piece
- 48 mm chest-piece has white diaphragm
- Complete with 2 spare ear tips and a spare diaphragm.

Complete with all accessories and consumables needed to work completely as specified

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**Technical Specifications**

**Medical Equipment for Global Fund**

<table>
<thead>
<tr>
<th>ITEM : 7</th>
<th>ELECTROCARDIOGRAPH</th>
<th>QTY 03</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECIFICATIONS :</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leads: 12 standard leads acquired simultaneously and continuously</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three real times continuous with rhythm, interpretation and measurements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult and Pediatric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writer speed: 5, 10, 25 or 50 mm/sec</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD display: backlit graphic display around 5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display channel: 1, 3, 6, 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation modes: Auto or Manual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy button for generating multiple copies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal printer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rechargeable battery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery power capacity: not less than two hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power: 220V AC 50/60Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cart Is included</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable holder is included</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECG cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limp electrodes 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chest pump electrodes 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jell tube 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECG paper 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete with all accessories and consumables needed to work completely as specified</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:**

- ECG cable
- Limp electrodes 4
- Chest pump electrodes 8
- Jell tube 5
- ECG paper 10

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## Technical Specifications

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<tr>
<th>ITEM :8</th>
<th>GLUCOMETER</th>
<th>QTY :10</th>
</tr>
</thead>
</table>

**SPECIFICATIONS:**

- Hand held type Glucometer
- Battery operated
- Memory up to 10 measurements
- Sticks method measurements
- Code of sticks interring is available
- Indication of high and low measurements
- Case is included
- One box of sticks and punctures is included
- Operating instructions is included

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**Complete with all accessories and consumables needed to work completely as specified**

**OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:**
- One box of sticks and punctures

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## Technical Specifications
### Medical Equipment for Global Fund

<table>
<thead>
<tr>
<th>ITEM :9</th>
<th>ULTRASONIC NEBULIZER</th>
<th>QTY :10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECIFICATIONS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desk Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nebulization : 0.4-0.7 ml/min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Cup capacity : 8ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Particles :1-5 micron</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oscillating frequency: 2.4 MHz approx.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD display for time , and air flow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On/off button</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Including mouth piece , tubes , filters , masks for infant and pediatrics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220v/50hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Technical Specifications:

#### Important Note:
Product is provided with software also allowing enumeration of CD4 percentage versus total T-lymphocytes; the reagents for it are detailed below. For existing systems respective software is provided free-of-charge [ref BD 339011].

#### General Description:
CD4 [abs] counter, FACSCount, with accessories.

#### Technical Specifications:
Absolute CD4 counter, FACSCount, with accessories

- Bench top flow based fluorescence-activated cell sorter.
- Volumetric, provides absolute T-lymphocyte counts per unit of volume.
- Enumerates CD3, CD4 and/or CD8 cells: approximately ranges 50 to 2500 cells/ul.
- Sample volume, for analysis: approximately 50 ul whole blood.
- Fit LCD and built-in b/w thermal printer.
- Micro-computer with memory stores/retrieves measured results per patient ID.
- Alphanumeric display informs about device status and on-going analysis.
- Energy requirements: 100 to 220 V AC
- Consumption: approximately 500 W

#### CD4 [abs] counter, FACSCount is supplied with:

- 1 x Software diskette CD4[abs]
- 1 x Software diskette CD4[abs] and CD4[perc] (ref BD 339011)
- 1 x Pre-programmed electronic FACSCount pipette,,
- 1 x System fluid, saline
- 1 x Waste reservoir, 2L
- 1 x Set of cleaning tubes
- 1 x Set of dispensing bottles
- 1 x Instruction manual (User’s Guide) in 3 languages (English, French and Spanish)
- 1 x Service manual in 3 languages (English, French and Spanish)
- 1 x UPS, 1000 VA

Special note: On-site installation and training are included.
**Technical Specifications :**

**Medical Equipment for Global Fund**

<table>
<thead>
<tr>
<th>Packaging and labelling:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit presentation: 1 (one) CD4 [abs] counter, FACSCount , with accessories</td>
</tr>
<tr>
<td>Manufacturer's name and logo.</td>
</tr>
<tr>
<td>Manufacturer's product reference.</td>
</tr>
<tr>
<td>Manufacture and expiry date, lot number (if applicable)</td>
</tr>
<tr>
<td>Main characteristics (dimensions, capacity)</td>
</tr>
<tr>
<td>Recommended storage conditions (if applicable)</td>
</tr>
<tr>
<td>Information for handling (if applicable)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protective packaging:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of units/pieces</td>
</tr>
<tr>
<td>Manufacturer's name and logo</td>
</tr>
<tr>
<td>Manufacturer's product reference</td>
</tr>
<tr>
<td>Manufacture and expiry date, lot number (if applicable)</td>
</tr>
<tr>
<td>Main characteristics (dimensions, capacity)</td>
</tr>
<tr>
<td>Recommended storage conditions (if applicable)</td>
</tr>
<tr>
<td>Information for handling (if applicable)</td>
</tr>
</tbody>
</table>

**Accessories/Spare parts/Consumable:**

NOTE: The following consumables are required to function.

Quantities and products required for 200 tests during 3 months:
- 4 x S0001201 FACSCount,Reagent kit,50 tests (ref BD 340167) for CD4[abs]  
- 4 x U342300 FACSCount,Reagent kit,50 tests (ref BD 339010) for CD4[abs & perc]  
- 1 x S0001202 FACSCount,Control kit,25 tests (ref BD 340166)  
- 1 x S0001203 FACSCount, Thermal paper, roll (ref BD 332889)  
- 1 x S0001220 FACSClean solution, 5L (ref BD 340345)  
- 1 x S0001221 FACS Rinse solution, 5L (ref BD 340346)  
- 1 x S0001222 FACS Flow solution, 20L (ref BD 342003)

Instructions for use:
The CD4 [abs] counter, FACSCount must be operated by adequately trained staff only.
Important: Assess test volume and order required consumables as start-up, when ordering the CD4[abs] counter, FACSCount

Component of a kit: N

**Complete with all accessories and consumables needed to work completely as specified**
Technical Specifications :
Medical Equipment for Global Fund

Your offer will not be taken in consideration unless (must be mentioned in the offer):-
ITEM :11 AMBO BAG SET QTY :10

SPECIFICATIONS :
Hand held silicon type.
Main unit consists of:
Pressure regulator with mask and plastic hood.
Face mask for child (3 pieces)
Face mask for adult (3 pieces).
Oxygen reservoir bag with safety valve (1 piece)
Oxygen feeding tube (4 pieces)
Including carrying bag.

Specifications:
Self inflating bag volume: approx 1600ml
Oxygen reservoir bag volume: approx 2600 ml, autoclavable

Materials:
Self inflating bag: semi.
Transparent silicon rubber.
Valve housing: transparent polysulfone
Shell of mask: transparent polysulfone.
Cushion of mask: transparent silicon rubber

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## Technical Specifications

### Medical Equipment for Global Fund

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<thead>
<tr>
<th>ITEM :12</th>
<th>OXYGEN CYLINDER 40LT</th>
<th>QTY :10</th>
</tr>
</thead>
</table>

**SPECIFICATIONS:**
- Capacity: 40Lt.
- O2 Regulator
- O2 Humidifier
- Adult mask
- Infant mask
- Nasal tube
- O2 tubing

*Complete with all accessories and consumables needed to work completely as specified*

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**Medical Equipment for Global Fund**

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<tr>
<th>ITEM :13</th>
<th>X-RAY VIEWER</th>
<th>QTY :10</th>
</tr>
</thead>
</table>

**SPECIFICATIONS:**  
2part viewers (Double)  
Power 220 V, 50/60 HZ  
Fluorescent light

Complete with all accessories and consumables needed to work completely as specified

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### Technical Specifications:

**Medical Equipment for Global Fund**

<table>
<thead>
<tr>
<th>ITEM :14</th>
<th>EXAMINATION COUCH</th>
<th>QTY :10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECIFICATIONS</strong> :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium-plated rectangular steel tube frame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-section mattress</td>
<td></td>
<td></td>
</tr>
<tr>
<td>head section adjustable up to +40°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension 1950 * 650 * 650h mm approx.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper roll holder is included</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper roll 500mm wide is included</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Complete with all accessories and consumables needed to work completely as specified*

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ITEM :15 | CHEMISTRY ANALYZER | QTY :5

SPECIFICATIONS :
- Full Automatic Chemistry Analyzer
- Open system for reagents & tubes
- Samples type: serum, plasma, C.S.F. urine Samples
- Routine, STAT ,Random fully test selective
- Photometric method
- Throughput: not less than 180 test/hour
- Reagent tray: approx 40
- Sample tray: approx 90 samples
- Measurement modes: kinetic, low-point, end point
- Calibration: Linear & non linear with possibility of 2 point Calibration
- Sample cup: about 5µl
- Sample volume : not more than 60 µl
- Reagent volume: not more than 250 µl
- Wavelength range: 340-700 nm
- Measurement range: 0-3 A
- Dilution : automatic dilution pre and post analysis
- Real time Q.C: Q.C chart print outs, daily & cumulative reports
- Interface RS-232
- Power supply: 220v,50Hz
- Including:
  - Laser printer
  - PC
  - Software
  - LCD display
  - priming bottle, reagent bottles, 100 sample vials, 3000 reaction cups
  - UPS 3KVA

Complete with all accessories and consumables needed to work completely as specified

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ITEM :16 TUBE CENTRIFUGE QTY :5

SPECIFICATIONS :
Speed: not less than 600 rpm step of 100
Specimen capacity: 12 tube/run
Sample size: 10 ml tube
Built in timer and speed control
Digital display
Brake
Door lock and safety protected lid
Power supply: 220VAC,50Hz

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#### Medical Equipment for Global Fund

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<thead>
<tr>
<th>ITEM :17</th>
<th>BLOOD CELL COUNTER(CBC)</th>
<th>QTY :5</th>
</tr>
</thead>
</table>

#### SPECIFICATIONS:

- Full Automatic
- Open System use any standard reagents
- Whole blood mode
- 18 parameter: WBC, RBC, HGB, HCT, PLT, MCV, MCH, MCHC, MPV, RDW, lymphocytes (% and #), Monocytes (% and #), granulocytes (% and #)
- Calculated parameters and histogram are available
- Throughput: around 50 samples/hour
- Automatic shut down, start up, electronic self checking, filling and background check
- Full Automatic calibration
- Reagent bag and start up kit included
- Printer included
- Power Supply: 220 VAC, 50Hz

Complete with all accessories and consumables needed to work completely as specified

#### OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:

- Reagent bag
- WBC aperture
- RBC aperture

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- Warranty two years from installation extendable for the same down time period during warranty or 30 months from delivery at least
- Warranty for not less than 10 years for spare parts.
- Prices for all mentioned accessories and spares.
- Service and operation manuals original and copy (2 sets in English) are included
- Certificates (agency approvals): FDA, TUV, CSA, UTRL, CE will be taken into consideration, the offer must include the certificates for evaluation
- The equipment must pass the acceptance test of MOH biomedical Engineering unit
ITEM: 18 | ELISA READER WITH RINTER, WASHER AND INCUBATOR | QTY: 5

SPECIFICATIONS:

Complete consist of:

**Micro plate Elisa reader:**
Linear measurement range: 0-4 absorbance (A)
Photometric accuracy 1 %
Wave length: 340-700 nm
Standards 96 well micro titer plates or strip trays
Power requirement: 230 V AC, 50-60 HZ
Interactive touch screen LCD
Speed: read absorbance of 96 wells within 10-20 seconds
Plate transport: stepper motor

**Software:**
Point to point curve fit
Polynomial regression, linear & sigmoidal regression, log &linear
User programmable open system
Selective plate formatting
Alphanumeric test name
Duplicate well options
Curve plotting and editing
Flags and error massage
Built in printer

**Microplate Elisa washer**
Residual volume: < 3 Micro liter
Dispense accuracy: < 3% CV at 300 micro liter
Processing time (full plate): 40-50 seconds, the aspirate / dispense with single or double aspirate
With 8 & 12 probe head
Power requirement: 230 V AC, 50-60 Hz
Programmable
Washing programs: aspirate, dispense, mix, soak and up to 99 minutes 99 seconds
Bottles should be three (wash 2 liter, waste 2 lit, rinse 1 lit), the bottles should be plastic with volume sensor probes
Programmable mix time during soak cycle.

**Incubator / shaker for Elisa (thermo shaker)**
Temperature range: 0-45 C
Resolution: 0.1 C
### Medical Equipment for Global Fund

**Technical Specifications**

- **Warm uptime:** 10-15 minutes, display temperature to check
- **Mixer speed:** 250-1800 rpm
- **Thermo shaker with cover**
- **Timer:** set time, view time remaining, range 1 second - 90 minute and 99 seconds
- **Power requirement:** adapter available for 230 V power sources.

### PRINTER:
- External Parallel
- 80 column
- 2k byte capacity

Complete with all accessories and consumables needed to work completely as specified

### OPTIONAL ACCESSORIES TO BE PRICED SEPARATELY:-
- Lamp qty 5
- Standard vessel with 96 wells qty 100

Your offer will not be taken in consideration unless (must be mentioned in the offer):
- Country of origin and source (clarification certificate), date of start manufacturing this model, and date of last upgrading, are clear in the offer
- New catalogue is attached with the offer, including data sheet.
- Warranty two years from installation extendable for the same down time period during warranty or 30 months from delivery at least
- Warranty for not less than 10 years for spare parts.
- Prices for all mentioned accessories and spares.
- Service and operation manuals original and copy (2 sets in English) are included
- Certificates (agency approvals): FDA, TUV, CSA, UTRL, CE will be taken into consideration, the offer must include the certificates for evaluation

The equipment must pass the acceptance test of MOH biomedical Engineering unit