



Cabo Verde

Ministry of Health

Rehabilitation Project Five Health Centres

Equipment and furniture specifications

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

Lot: **01 Medical equipment, instruments and glassware**

01-0001 Glassware set, laboratory

- 2 Beaker, glass, Pyrex, graduated, low-form, w/spout, 50ml
- 2 Beaker, glass, Pyrex, graduated, low-form, w/spout, 250 ml
- 2 Beaker, glass, Pyrex, graduated, low-form, w/spout, 500 ml
- 2 Beaker, glass, Pyrex, graduated, low-form, w/spout, 1000ml
- 1 Bottle, aspirator, lab., polythene, with carrying handle, 10 litres
- 1 Bottle, aspirator, lab., polythene, with carrying handle, 2 litres
- 1 Bottle, aspirator, lab., polythene, with carrying handle, 5 litres
- 10 Bottle, dropper, amber glass, for stains, 50ml
- 1 Bottle, reagent, amber glass, glass stopper, 1.0 l
- 1 Bottle, reagent, amber glass, glass stopper, 2.5 l
- 1 Bottle, reagent, clear glass, glass stopper, 1.0 l
- 1 Bottle, reagent, clear glass, glass stopper, 2.5 l
- 600 Cover glass, microscope slide, 22x22mm
- 2 Cylinder, measuring, p/p, graduated, 50 ml
- 2 Cylinder, measuring, p/p, graduated, 100 ml
- 2 Cylinder, measuring, p/p, graduated, 500 ml
- 2 Cylinder, measuring, p/p, graduated, 1000 ml
- 1 Forceps, coverglass, KUEHNE, flat, bent tips, 100 mm
- 1 Forceps, microscope slide, KIRBIDE, 125 mm
- 1 Funnel, lab, hrg, ribbed, 115 mm/250 ml
- 1 Funnel, lab, p/e, 100mm diameter
- 1 Funnel, lab, p/e, ribbed, 160mm diameter
- 1 Funnel, lab, pouring, p/e, large, 200mm diameter
- 1 Funnel, lab, filter, Buchner, inside diameter 56mm
- 5 Pipette, serological, hrg, graduated, 1 ml/0.01 ml
- 5 Pipette, serological, hrg, graduated, 5 ml/0.1 ml
- 1 Rack, microscope slide staining, for 25 slides
- 1 Rack, test tube, wooden, 12 tube
- 2 Rod, stirring, glass, 200x7mm
- 2 Scriber, glass marking, tungsten carbide, 125 mm
- 200 Slide, microscope, glass, 25x75mm
- 100 Test tube, glass, borosilicate, with rim, 150x16mm hrg
- 1 Washbottle, polythene, oval, with spout, 500ml
- 2 Washbottle, polythene, oval, with spout, 500ml

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0002 Glassware, set, pharmacy

- 1 Beaker, glass, Pyrex, graduated, low-form, w/spout, 50ml
- 1 Beaker, glass, Pyrex, graduated, low-form, w/spout, 100ml
- 1 Beaker, glass, Pyrex, graduated, low-form, w/spout, 250 ml
- 1 Beaker, glass, Pyrex, graduated, low-form, w/spout, 500 ml
- 1 Beaker, glass, Pyrex, graduated, low-form, w/spout, 1000ml
- 1 Cylinder, measuring, glass, graduated, 100ml
- 1 Cylinder, measuring, glass, graduated, 10ml
- 1 Cylinder, measuring, glass, graduated, 500ml
- 1 Funnel, glass, Pyrex, medium, 150mm diameter
- 3 Mortar & pestle, glass, medium, 150mm diameter
- 3 Mortar & pestle, ground glass, small, 100mm diameter
- 1 Rod, stirring, glass, 200x7mm
- 1 Rod, stirring, glass, 230x6mm
- 1 Rod, stirring, glass, 300x8mm

01-0003 Defibrillator, portable

Suitable for hospital and ambulance use

- ï Large accumulator capacity ensures the unit is not mains dependent.
- ï Self-testing error diagnosis runs automatically every time the unit is turned on
- ï Pictograms and clear program run ensures functional handling.
- ï The unit must be enclosed in a shock resistant plastic casing, protecting the unit when used in emergency situations

01-0004 Electrocardiograph, 6 channel

Six acquisition and printout settings up to 6 channels simultaneously can be fully customized simply by using numeric codes on the keyboard.
 Timer, filters, number of pages to be printed, 3, 6 channels.
 Measurement and Interpretation (optional) formats. Cabrera or Standard leads, can be selected and programmed in the setup of the machine.
 Six automatically controls the ECG baseline in order to provide good quality diagnostic traces and, in manual mode, it identify the faulty lead.
 Six designed in accordance with MDD 93/42 EEC (CE Mark) complies or exceeds the most demanding international quality standards ensuring full compliance with all patient and operator safety rules, biocompatibility of materials and EMC compliance (electromagnetic interference).

TECHNICAL CHARACTERISTICS

Dimensions: 399 (l) x 338 (w) x 104 (h) mm.
 Weight: 4,3 kg
 Power Supply: 100 / 115 V - 220/240 V - 28 VA
 Battery: 12 V lead-acid
 Sampling reate: 1.000 Hz
 Digital Resolutions: 5m V
 Frequency: 0,05 / 150 Hz
 Filters: Myogram 25, 35 Hz, mains adaptive 50/60 Hz
 Enviromental operative conditions: 10[°]to 40[°]- 25 / 95[%]
 humidity(non condensing), 700 / 1060 h Pa.
 Complet with trolley

With

- 5 Pack paper Z fold 210x280mm x240Sheets.
- 10 Tubes of approx 100 gr of electrode gel

01-0005 Eye chart, vision testing, Snellen, alphabet/illiterate

Snellen, alphabet/ illiterate
 reading distance 20 feet. 6.1 meter
 Should be made of durable white plastic with suspender

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0006 Incubator, infant, complete with accessories

Mobile incubator, with base cabinet and integral temperature control. Digital switch for temperature setting, and humidity control. Audible and visual alarms for air circulation failure, over-heating or mains failure. See-through canopy, with end door for baby access, and 4 nursing ports. Oxygen inlet with capacity to achieve a maximum of 35% concentration. External control for cradle tilt to + or -13%. Adjustable height intravenous stand screwed to side. On 4 x 125mm anti-static swivel castors.

01-0007 Light, examining, floor standing

Articulated, standard bulb 100W, 230V
 On 5 prong stand with 40 mm castors
 Rugged construction
 supplied with two power saving bulbs

01-0008 Light, operating, mobile

Shadow free, high intensity 30,000 lux, 4 enclosed bulb, light source. Minimum 4m length cable.
 Stable base on anti-static castors. Approx height 1750 mm.
 Adjustable focus with sterilisable handle for lamp positioning.
 Vertical adjustment through approx 90 degrees.
 Lamp head pivots through approximately 180 degrees.

01-0009 Light, operating, mobile, with battery backup

Shadow free, high intensity 30,000 lux, 4 enclosed bulb, light source. Minimum 4m length cable.
 Stable base on anti-static castors. Approx height 1750mm. Adjustable focus with sterilisable handle for lamp positioning. Vertical adjustment through approx 90 degrees. Lamp head pivots through approximately 180 degrees. A 12 V No-break powersupply has to be provided for this lamp. With battery capacity of 80Ah

01-0010 Monitor, foetal heart detector

Pocket obstetric Doppler:
 LCD screen shows foetal heart rate in beats per minute along with a heart symbol that flashes with each detected foetal heart beat. Permanent 2 Mhz waterproof probe with recessed storage
 Extended life battery with low-battery indicator
 Two auto-shut off features that enable to get optimal battery life.
 Dimension approx 140 (l)x74(w)x27(h)mm
 Battery: 9 V alkaline
 Accessories:
 Supplied with soft carry pouch, stereo headphones, gel, neck-cord and battery

01-0011 Monitor, vital functions, ICU

For use in hospital care settings
 Multiple patient modes to care for adults, pediatrics, even neonates
 NBP: non-invasive blood pressure technology
 SpO 2: motion tolerant pulse oximetry
 Temp: electronic predictive thermometry
 Multiple blood pressure modes and a variety of BP cuffs
 Custom rollstand
 Full array of programmable alarms
 A/C 230/240 V 50 Hz or 6-hour battery operation

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0012 Nebulizer, ultrasonic

Ultrasonic nebulizing system
 With movable stand and adjustable tray.
 With support for bottle and automatic continuous feeding system for 1- to 5-litre-bottle
 Timer for continuous operation or up to 59 min. working time.
 Adjustable air delivery volume
 Exchangeable air- and bacterial-filter. Sterilizable fan-wheel.
 Nebulizing chamber and chamber lid to be sterilizable in steam
 Interruptors to prevent the nebulizer from operation without liquid.

Performance:

Nebulizing rate
 0 - 120 ml/hr Particle size
 0,5 - 15 µm Mist density
 0 - 200 mg/l Air flow, adjustable 0 - 10 l/min
 Tubing sterilizable (silicone)

Stand:

On castors
 Knock down construction
 Tray for nebulizer and support arm for tubing
 Flask holder
 Stand, base and supports in stainless steel

To be supplied with

10 Masks, children
 10 Masks, adults
 10 Bacterial filter elements

01-0013 Needle destroyer

Designed for safe and hygenic disposal of used needles and syringes

01-0014 Neonatal resuscitation unit, with accessories

A mobile unit with attached baby cradle. With facility of Warming, Oxygenation, Suction & Intubation.

Warming

Temp. Controller: To provide thermal regulation with highest degree of accuracy, User friendly feather touch control along with safety alarms and cutoffs.

Heater Box

Made up of highly insulated Molded HIP cover along with Ceramic heater, reflector and Spot light

Baby Tray

With Acrylic collapsible side panels, Head Up/ Down Facility, Thick foam mattress, X-ray cassette tray, Facility to incorporate under Surface Phototherapy etc.

Attachment

Lower Shelves or 3 Drawer Storage Cabinets, Side Mounted Monitor tray, Pole for Syringe Pump / Infusion Pump & S.S. IV Stand.

Oxygenation

Oxygen regulator with Hose pipe, Place to keep Cylinder, Flow meter, Humidifier bottle, Silicone Patient Tubing, Manual Silicone Resuscitator 250ml with 00 & 01 size mask, Round shape Polycarbonate O2 Hood.

Suction

Electrically operated low pressure Suction unit with 2 Autoclavable 500 ml suction jar, Regulator and silicone tubing.

Intubation

Laryngoscope with size 0 & 1 Straight Blades, Silicone Airways 000, 00 & 0

Unit must be powder coated

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0015 Operating table, mechanical

Mechanical controlled operating table for minor surgery
a) adjustable to all essential operating positions
b) movement controls at the head of the table (non removable levers)
c) Leg section controlled by selflocking handlever
d) Reinforced three section polished stainless stell top
e) Mounted on 100 mm approx rubber castors with floor brakes
f) Accessories:
(i) adjustable leg holders with canvas strap
(ii) adjustable heel stirrup, chrome plated
(iii) anaesthetist's screen
(iv) moulded seamless, sectioned anti-static mattress with minimum thickness of 75 mm.

01-0016 Oxygen concentrator, 6ltr/min

With alarms and Oxygen Sensor
Delivery rate 0.5 - 6L/min
Oxygen percentage up to - 93%
Includes 2 adult cannulae with 2m tubing
Soft Oxygen tubing 2 connectors, humidifier adaptor kit, humidifier bottle and flow meter Long life intake filter
Mains lead
230Vac, 50Hz approximately 400w

Spare set of: Inside filters
Accessories: Oxygen administration masks for adult an children, Nasal prongs

01-0017 Oxygen therapy apparatus, w/masks, flowmeter, cylinder, trolley

Oxygen therapy apparatus with face masks, flow meter cylinder and trolley with antistatic wheels.
- Oxygen cylinder 6.8m³
- Reducing valve to fit cylinder(bull nose) reducing valve with gauge and flow meter graduated in litres per minute at 1 litre interval up to a flow rate of 15l/mun.
With adapter to fit humidifier and with outlets to fit patient tubing.

Accessories;
Oxygen masks
Nasal prongs
Complete with oxygen key (spanner)

01-0018 Phototherapy unit, infant, with accessories

Fluorescent tubes of either, bluelight or northlight wavelength, mounted in a canopy.
The unit is mounted on 2 fixed and 2 swivel castors and has a height adjustment facility.
Light source of suitable intensity in the 420 to 480 nanometer wavelength range.
On/off switch. Supply with spare set of tubes.

01-0019 Refrigerator, mortuary, 3 body

Exterior: Front - Type 304 stainless steel. Top, Sides, and Back embossed aluminum
Interior: Walls and Ceiling; embossed aluminum
Dimensions: Approx Width 1000 mm; Depth 2500 mm; Height 1800 mm
Insulation: 100 mm in-situ foamed urethane
Doors: (3) 700 x 560 mm, flush style with magnetic gasket
Carriage frame: (3) three piece telescopic fabricated of extruded aluminum with nylon rollers
Removable tray: (3) Type 304 stainless steel
Lighting: 1 - lighted switch, and 1 vaporproof light
Thermometer: 1 - dial thermometer
Refrigeration: Condensing unit - QHP air cooled with R134A refrigerant
Cooling unit - automatic off-cycle
Operating Temperature 3°C
Adjustable temp from 1 to 5 Celsius
Electrical: 230 V, 50Hz, single phase

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0020 Resuscitator, manual, adult

like AMBU Self inflating bag and non rebreathing valve

Adult and children > 15 Kg

Maximum stroke volume approx 1300 ml

Consisting of :

- non-rebreathing valve AMBU E2 or E 1
- self inflating resuscitation bag

Consisting of:

- Inlet Valve, T piece, reservoir tube
- Each Rendell-Backer mask size 1, 2, 3, 4 and 5

Self inflating bag:

- Rubber silicone complete in a case with inlet valve
- Dimensions: approx 320 mm x 125 mm
- Volume approx 1500 ml
- Inlet port for air: 22 mm ED or equipped with removable connector piece (22 mm ED) to connect a standard 22 mm T piece or anaesthetic hose

Valve

- Type: non-rebreathing valve of anaesthetic type , detachable
- Patient connector: 22/12 mm (ISO)
- Expiratory connector 30 mm or 22 mm (ISO)
- Inspiratory resistance approx 0.10 kPa at 50 l/min
- Expiratory resistance approx 0.15 kPa at 50 l/min
- Automatic control valve for auto adjustment of maximum pressure to 700 mm H2O

Reservoir tube

- Dimensions L approx 1000 mm x 22 mm (capacity approx 1000 ml)
- T piece 22 mF/22 mmF with small arm tapered 5-3 mm M

01-0021 Resuscitator, manual, infant

like AMBU, Babies and children , 15 Kg

Maximum stroke volume approx 300 ml

Operating temperature - 20°C to + 50°C

All components autoclavable or high-level of disinfection possible

Consisting of :

- non-rebreathing valve
- self inflating resuscitation bag
- Inlet Valve, T piece, reservoir tube
- Each transparent round face mask for baby
- Each Rendell-Backer mask size 00, 0, 1 and 2

Self inflating bag:

- Rubber silicone
- Dimensions: approx 240 mm x 75 mm
- Volume approx 500 ml
- Inlet port for air: 22 mm ED or equipped with removable connector piece (22 mm ED) to connect a standard 22 mm T piece or anaesthetic hose

Valve

- Type: "paedi valve" detachable
- Dead space: approx 4ml
- Patient connector: 22/15 mm (ISO)
- Resistance approx 0.15 kPa at 10 l/min
- Automatic control valve for auto adjustment of Maximum pressure to 400 mm H2O

Reservoir tube

- Dimensions approx 1000 mm x 22 mm (capacity approx 1000 ml)
- T piece 22 mF/22 mmF with small side arm 5-3 mm M

01-0022 Sterilizing unit, dry heat, medium, electric

Constructed of stainless steel.

Temperature range up to 200°C.

Time control 0 to 120 minutes.

Override switch and twin pilot lights; complete with two perforated trays.

Approximate chamber size approx. 350h x 400w x 350d mm.

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0023 Sterilizing unit, steam, non-vacuum, horizontal, tabletop, automatic, 20 l

Overall size approx 440 (h) x 380 (w) x 490 (d) mm.
 Chamber size approx 250 mm (y) x 320 (d) mm.
 4 sterilization cycles for sterilising at 134°C and 121°C for unwrapped instruments

Should meet EN13060 (or equivalent) for type B Small sterilizers
 Safety locking door under pressure.
 Progress indicator. Overheat safety cut-out.
 230V; approx 2 kW

Accessories;

- i) instrument tray
 - ii) Gasket (spare)
 - iii) To be supplied with stainless steel grid baskets
 2 x full chamber height
 and sterilizing drums
 2 x full chamber height
- Dimensions of grid baskets and sterilizing drums must optimally use the chamber size.

01-0024 Sterilizing unit, steam, vacuum, horizontal, tabletop, automatic, 20 l

Overall size approx 440 (h) x 380 (w) x 490 (d) mm.
 Chamber size approx 250 mm (y) x 320 (d) mm.
 4 sterilization cycles for sterilising at 134°C and 121°C for wrapped and unwrapped instruments
 capable of pre and drying vacuum.

Should meet EN13060 (or equivalent) for type B Small sterilizers
 Safety locking door under pressure.
 Progress indicator. Overheat safety cut-out.
 230V; approx 2 kW

Accessories;

- i) instrument tray
 - ii) Gasket (spare)
 - iii) To be supplied with stainless steel grid baskets
 2 x full chamber height
 and sterilizing drums
 2 x full chamber height
- Dimensions of grid baskets and sterilizing drums must optimally use the chamber size.

01-0025 Suction apparatus, electric, 1 bottle, 600mmHg

Totally enclosed motor with built-in fan and thermal cut-out.

- suction capacity 15/25 litre / min
- on/off switch and operating indicator light
- vacuum range 0-600 mm Hg approx
- clear vacuum gauge- bacterial filter
- carrying handle - autoclavable graduated 2 litre suction jar
- power 240 vac, 50Hz

Supply extra 2 No. bottles and 2No PVC tubings

01-0026 Suction apparatus, foot operated, 635mmHg, 1.25 ltr

Suction pump foot operated of heavy duty design consisting of a wide metal base plate for good stability; foot/hand operated pump and bottle. The bottle of capacity of approx 600ml.

- 1 x 600ml graduated autoclavable suction jar
- safety valve
- tubing and probe to fit suction outlet.

Design like Ambu Maxipump
 Supply with 2No spare bottles and 2 No PVC tubings

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0027 Vacuum extractor, manual, Bird's modification of Maelstrom

Birds Vacuum extractor, with three extraction cups (40, 50, 60mm opening diameter) complete with rubber enclosed extraction chains and extraction handles, hand operated vacuum pump, wire hanging rack, vacuum gauge, vacuum bottle and all necessary fittings, gaskets and vacuum tubing, supplied with the following:
 3 metres extra vacuum tubing
 1 each spare vacuum bottle
 1 set spare gaskets
 1 each spare extraction chain
 3 each spare packing for vacuum pump.

01-0028 Weighing scale, adult, physician, metric, 140kgx100g

Personal with height scale, heavy duty. To weigh up to 140kg x 100 gr. The platform should have a non-slip surface fitted with an aluminium and boxwood height measuring stand with metric measurement from 760mm to 2 m.

01-0029 Weighing scale, baby, basin type, 16 kg

Infant top tray. Sliding weight type, heavy duty, metal frame, hospital model. 0-16kg with 10g divisions. With quick removable baby tray for easy cleaning.

01-0030 Weighing scale, toddler, springtype

The scales to be metric and graduated in 100g divisions up to 25kg. The scale body, top and bottom hooks, to be stainless steel, and the chart cover to be unbreakable polycarbonate or similar material. Complete with 3 weighing pants, made from strong waterproof covered nylon, and shoulder carrying bag in same material.

01-0031 Wheel chair

Frame constructed from chrome-plated steel tube.
 Seat and back in reinforced nylontex, with rear pouch.
 Upholstered armrests.
 Detachable clothes guards.
 Detachable folding footplates.
 Solid tyred rear propelling wheels, ~ 570 mm
 Solid tyred castors wheels, ~ 210 mm
 Seat width: 450 mm
 Seat depth: 400 mm
 150 Kg Weight Capacity.

01-0032 Amalgamator, dental

Amalgamator for mixing either pre-prepared or encapsulated amalgam. Overall system features:
 1). With timer.
 2). To be supplied with all mixing attachments

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0033 Dental unit, complete with chair, cuspidor, compressor, operating lamp, air-turbine drill and x-ray unit

Dental chair

Dental chair should have the following features: three sections (head, back, foot). Adjustable, hydraulic patient chair with foot control. Tilting backrest, with integrated arm supports. Height adjustable from 350 to 800mm. Pilot foot switch for up/down movements and push button control for other movements. Physical characteristics: 1. Robust basic technology. 2. Metal should be epoxy-coated. 3. Wipe-clean surfaces designed with asepsis in mind. 4. Upholstery must be easy to clean and replace, and have minimum seams. 5. Must conform to international safety standards.

Dental stool

five-pronged base with 50mm diameter, anti-static castors and fitted foot ring. Gas cylinder/column for height adjustment from approx. 430 mm to approx. 530 mm. Seat pad with seamless upholstery and lumbar support. All must be easy to clean.

Treatment unit

Treatment Unit must have built-in spittoon, touch button control, instrument foot control, balanced air/water pressure delivery. Must be complete with: Dental light, air micro-motor, mobile turbine module, 3 way syringe module. Tray table. Heated tumblers, filter and bowl, hydraulic saliva ejector, suction device. Must be very flexible and easy to handle in horizontal position. The arm must allow maximum rotation. Light: Twin reflector, swivel through 270° and rotation through 180°. Illumination level gradually progressive from 5000 to 28000 lux. Operating field 11 x 28cm.

Dental X-ray unit

Dental X-ray unit for mounting on dental unit, or independent floor standing, for intra and extra oral/dental radiography with microprocessor-controlled time and automatic selection. Focus x-ray tube External radiation < 100mr/hr at a distance of 1 meter. Total filtration 2mm/2.5mm AL. Primary controlling limited to a diameter of 6cm on skin level. With wall plate and double pantograph arm. Electrical characteristics: Anode tension 70 kVp, Tube current output: 8mA, focal spot 0.8 mm, focus slant distance (FSD): 20cm

Dental treatment trolley

Must be epoxy coated sheet metal frame and have a compact cupboard working top and the following drawers: left side: 1 x 180mm drawer, 3 x 120mm drawers, 2 x 90mm drawers; on the right side - 2 x 90mm drawer, 1 x 120mm drawer. Mounted on 4 anti-static castors, two with brakes.

Dental compressor

Dental compressor, Displacement around 50 liters/minute at maximum pressure of around 8 bars air receives around 10lts. Noise level not more than 1 dB at 40m. power rating 400 Watt.

01-0034 Light, dental resin curing

Automatic LED cold light model for continuously cool operation. Blue light operation, acoustic signal every 10 secs, light guide handle and end tip with 360 degree rotation, protective eye shield and disposable shields.

01-0035 X-Ray film processor, dental, daylight

X ray Film Processor dental daylight, comprising:

- Electronically controlled
- Specific for intra - oral dental X - ray films
- complete with day light hood, with robust anti- corrosive casing
- Processing time : 5 - 7 minutes
- Dimensions: 63cm, length, 25 cm width, 40 cm height

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0042 Counting chamber, Fuchs-Rosenthal ruling

with 10 cover glasses

01-0043 Counting chamber, Neubauer ruling, improved

with 10 cover glasses

01-0044 Distilling unit, electric, 4 ltr per hour

Distillation unit , water, electric fitted with stainless steel boiling chamber, pipe and tube, assembly and inner baffles. Outer lid and inner baffle cup made of Boro-Silicate Heat resistant glass. The electric elements should have protective cut outs. The still must have wall brackets for mounting. Electrical specifications: 2x 1.5 kW., 230 VAC., 50 Hz..

01-0045 ESR apparatus, Westergren, stand & pipettes.

Stand made of enamelled metal or aluminium with hangers to suspend 12 no. Westergren tubes (polystyrol) with axis vertical. Complete with special closing caps.

01-0046 Haematology analyser, 19 parameters

Automated Cell Analyser with the following 19 parameters (Whole Blood mode)
WBC, RBC, Hgb, Hct MCV, MCH, MCMC and Plt
NEUT%, LYMPH%, MXD%, NEUT#, LYMPH#, MXD#, RDW-SD or RDW-CV, PDW, MPV, P-LCR
Fully automatic sample aspiration, dilution & analysis. up to 60 samples per hour.
Incl. Ticket printer.
The equipment must be able to use reagents from different reagent suppliers.
Power requirements 230 V, 50 Hz

Like Sysmex-21N (due to combined reagents procurement this model has strong preference)

01-0047 Microscope, binocular, dual light source, moving mechanical stage

1:Composition:

Microscope basic Unit with fixed quadruple, nosepiece, square plain stage and halogen illumination base.

- Field lens Unit
- Vinyl Dust Cover
- Wooden case with lock key.
- Instruction Manual

2.Specification:

Optical System : Chromatic Aberration free optical System
Magnification range : 10 x 1,000x
Mechanical Tube length : 160 mm
Nose piece : Quadruple revolving Mechanism knobs coaxially positioned 26.5mm coarse/ fine focusing range fine motion 0.2mm per rotation with 2 micron scale increments

Substage : Vertical range of condenser movement 18mm
Eye Piece tube : Binocular, anti- mould type 450
Eye piece lens :10x inclined, 360 degrees rotatable
Stage ; Rectangular plain stage 120 (w) x 128(D)mm
Attachable Mechanical Stage : Travel 76mm (x) (direction) and 50 mm (v direction) with right hand control, vernier reading 0.1mm

Objectives : x 10, x 40, x 60, x 100, achromatic and spring loaded
Condenser : Abbe Condenser, aperture diaphragm accepting 33mm diameter filters
Filter : 33mm blue filter
Illumination : 6V 20W halogen lamp / Mirror
Power Supply ; AC 230/ 50 Hz/ 20 VA

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0048 Pipette, volumetric, micro, set, adjustable, robust

Adjustable pipette
 0.5 -10 µl
 10 - 200µl
 100- 1000µl
 1000 - 5000µl
 - include disposable tips for the above sizes
 - 0.5 - 10 µl clean
 - 10 - 200µl - yellow
 - 100 1000 µl blue
 supply 5 packets of 1000 each

01-0049 Rack, test tubes, metal, 20 tubes

01-0050 Shaker, VDRL, rotator variable, electric, VDRL tests

Main Unit: Spring Shaking plate
 Instruction and service manual
 Spares and consumables
 Multi shaking plates
 Flask holders (50ml, 200ml, 500ml,1000ml,2000ml)

Specifications:
 Motion : Reciprocating/ orbital
 Plate size : 300 x 250mm
 Shaking width : 25mm
 Speed : 20 - 200 times/min, feedback Control
 Speed display : Digital
 Power supply : AC 230/50Hz

01-0051 Tally counter

Hand tally counter, single register, range 0 to 9999, with zero reset knob.

01-0052 Timer, interval, mechanical, 60 minx1min, with signal, spring-wound

The end of the cycle being signalled by alarm of approx. 4s

01-0053 Water bath, with thermostat, 10 ltr

Approx capacity 10 litres. Dimensions: 440 (l) x 270 (w) x 200 (d) mm. Stainless steel in chamber, enamelled outer case, thermostatically controlled temperature +/- 0.1°C with thermal safety cutout, indicator thermometer, temperature adjustable 25-90°C. Gabled lid, complete with stainless steel test tube rack. 230V 50 Hz.

01-0054 Cold box, insulated, vaccine storage, 22 ltr

For transport of vaccines, insulated to keep vaccines cold during transport. Capacity 22 litre, Like RCW 25, complete with ice packs.
 External dimensions 560(l) x 50(w) x 710(h) mm
 Of sturdy construction, polyethylene filled with polyurethane foam.
 Cold life at 32°C equals approx 250 hours

01-0055 Vaccine carrier

Insulated with polyurethane, 20 mm thickness, External dimensions 32 x 26 x 24 cm. Complete with icepacks

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0056 Diagnostic equipment set for MCH

- 2 Depressor, tongue, metal, Adult / Child
- 1 Reflex hammer, solid rubber head
- 1 Speculum, vaginal, bi-valve, GRAVES
- 1 Sphygmomanometer, aneroid
- 1 Stethoscope, foetal, aluminium
- 1 Stethoscope, nurse
- 1 Syringe, aural
- 1 Tape measure, cloth, 2m
- 5 Thermometer, clinical, oral, prismatic, °C, °F
- 5 Thermometer, clinical, rectal, °C

01-0057 Diagnostic equipment set for MD/CO

- 5 Depressor, tongue, metal, Adult / Child
- 1 Ophthalmoscope, standard
- 1 Otoscope
- 1 Proctoscope, child / adult
- 1 Reflex hammer, solid rubber head
- 3 Speculum, vaginal, bi-valve, GRAVES
- 2 Sphygmomanometer, aneroid
- 2 Stethoscope, binaural, dual chestpiece
- 2 Stethoscope, foetal, aluminium
- 1 Syringe, aural, irrigating, KRAMER, metal, 90ml
- 1 Tape measure, cloth, 2m
- 5 Thermometer, clinical, oral, prismatic, °C, °F
- 5 Thermometer, clinical, rectal, °C
- 2 Torch, examination, penlight
- 1 Tuning fork, 512 Hz

01-0058 Diagnostic equipment set for ward/nurse

- 2 Depressor, tongue, metal, Adult / Child
- 1 Reflex hammer, solid rubber head
- 2 Sphygmomanometer, aneroid
- 2 Stethoscope, foetal, aluminium
- 2 Stethoscope, nurse
- 2 Tape measure, cloth, 2m
- 5 Thermometer, clinical, oral, prismatic, °C, °F

01-0059 Instrument set, delivery and suturing

- 1 Bowl, lotion, s/s, 110mmO x 40mm
- 1 Box, instruments, s/s, w/knobbed cover, 300x200x50 mm
- 2 Forceps, Kocher, toothed 1x2t, 230 mm
- 2 Forceps, artery, SPENCER WELLS, straight, 175mm
- 1 Forceps, swab holding, FOERSTER, straight, grooved jaws, 200mm
- 2 Forceps, tissue, 1x2teeth, 0.7mm
- 1 Gallipot, p/p, 75mm diameter
- 1 Kidney dish, s/s, 825ml
- 1 Needle holder, MAYO-HEGAR, straight, 160mm
- 2 Needle, suture, curved, cutting, s/s, assorted
- 1 Scissors, MAYO, curved, 150mm
- 1 Scissors, episiotomy, BRAUN-STADLER, 145mm
- 1 Scissors, umbilical, 105mm

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0060 Instrument set, dental surgery

- 1 Band for dental matrix retainer, 48 assorted
- 1 Blade, knife, surgical, No.11
- 1 Blade, knife, surgical, No.12
- 1 Brush, dental, scratch, scratch, flexible wire
- 1 Burnisher, dental, long handle, SSW No.27, s/s
- 1 Burnisher, dental, long handle, SSW No.33, s/s
- 1 Burnisher, dental, long handle, SSW No.34, s/s
- 1 Carrier, dental, amalgam, gun-type, chrome-plated
- 1 Curette, alveolar, McCALL, long handle, No.13 SS
- 1 Curette, alveolar, McCALL, long handle, No.14 SS
- 1 Curette, alveolar, McCALL, long handle, No.17 SS
- 1 Dispenser, mercury, dental, dropper, cap plastic
- 1 Elevator, dental periosteal mead, No.MD-2 SS
- 1 Elevator, dental root
- 1 Elevator, dental root, apical fragments, SSW No.301
- 1 Elevator, dental root, apical fragments, SSW No.302
- 1 Elevator, dental root apical, fragments, SSW No.303
- 1 Elevator, dental root seldin, No.4-L SS
- 1 Elevator, dental root seldin, No.4-R SS
- 1 Excavator, dental, double-ended, SSW, No .5, SS
- 1 Excavator, dental, double-ended, SSW, No.17, SS
- 1 Excavator, dental, double-ended, SSW, No.18, SS
- 1 Excavator, dental, double-ended, SSW, No.19, SS
- 1 Explorer, dental, double-ended, SSW, No.2, SS
- 2 Explorer, dental, double-ended, SSW, No.5, SS
- 1 Explorer, dental, double-ended, SSW, No.6, SS
- 2 Handle, mouth-examining mirror, s/s
- 1 Holder, cotton, dental, No 1, metal chrome plated
- 1 Instrument, plastic-filling, double-ended, SSW, No.2, SS
- 1 Instrument, plastic-filling, double-ended, SSW, No.3, SS
- 1 Instrument, plastic-filling, double-ended, SSW, No.5, SS
- 1 Instrument, porcelain-filling, No.3, SS
- 1 Knife handle, surgical, BARD PARKER, No. 3
- 3 Mandrel, dental, screwhead, No.303, for angle handpiece
- 3 Mandrel, dental, screwhead, No.303, for straight handpiece
- 2 Mirror, mouth-examining, magnifying, w/o handle
- 4 Mirror, mouth-examining, plane glass, w/o handle
- 2 Pliers/tweezers, dental cotton & dressing, No.311, s/s
- 1 Plugger, amalgam, BLACK, long handle, No.1, s/s
- 1 Plugger, amalgam, BLACK, long handle, No.2, s/s
- 1 Retainer, dental matrix, Tofflemire, s/s
- 1 Scaler, dental, DARBY-PERRY, long handle, SSW, No.1, SS
- 2 Scaler, dental, JACQUETTE, long handle, SSW, No.1, SS
- 2 Scaler, dental, JACQUETTE, long handle, SSW, No.2, SS
- 2 Scaler, dental, JACQUETTE, long handle, SSW, No.3, SS
- 1 Scaler, dental, McCALL, long handle, No.4, SS
- 1 Scaler, dental, McCALL, long handle, No.7, SS
- 1 Scaler, dental, McCALL, long handle, No.8, SS
- 1 Scaler, dental, McCALL, long handle, No.9, SS
- 1 Syringe, air, dental, rubber bulb, No.22
- 1 Syringe, water, dental, MOFFAT, w/bulb

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0061 Instrument set, dental, hand

- 1 Box, instruments, s/s, w/knobbed cover, 300x200x50 mm
- 5 Clip, towel, MAYO
- 1 Elevator, dental root, apical fragments, SSW No.301
- 5 Excavator, dental, double-ended, SSW, No.17, SS
- 5 Excavator, dental, double-ended, SSW, No.18, SS
- 1 Forceps, dental extration, lower anterior, child, s/s
- 1 Forceps, dental extration, lower anterior, s/s
- 1 Forceps, dental extration, lower full molar, s/s
- 1 Forceps, dental extration, lower pre molar, s/s
- 1 Forceps, dental extration, upper anterior, child, s/s
- 1 Forceps, dental extration, upper anterior, s/s
- 1 Forceps, dental extration, upper left molar, s/s
- 1 Forceps, dental extration, upper pre molar, s/s
- 1 Forceps, dental extration, upper right molar, s/s
- 5 Handle, mouth-examining mirror, s/s
- 2 Instrument, plastic-filling, double-ended, SSW, No.3, SS
- 10 Mirror, mouth-examining, magnifying, w/o handle
- 5 Plugger, amalgam, BLACK, long handle, No.2, s/s
- 2 Scaler, dental, McCALL, long handle, No.7, SS
- 2 Scaler, dental, McCALL, long handle, No.8, SS
- 2 Scaler, dental, McCALL, long handle, No.9, SS
- 2 Slab, mixing , for semi solids, 152x76x19mm
- 2 Spatula, dental cement, SSW, No.322, SS
- 3 Syringe, dental, cartridge type, 2.2ml
- 5 Tweezers, dental, bayonette form, smooth, s/s

01-0062 Instrument set, dressing

- 1 Bowl, lotion, s/s, 110mmO x 40mm
- 1 Clippers, hair
- 1 Forceps, dissecting, STILLE, 1x2 teeth, 120mm
- 2 Forceps, dressing, standard, straight, 115mm
- 1 Forceps, sinus , 178mm
- 1 Forceps, splinter, with magnifying glass, 90mm
- 1 Forceps, swab holding, FOERSTER, straight, grooved jaws, 200mm
- 2 Gallipot, p/p, 75mm diameter
- 2 Kidney dish, assorted sizes, s/s
- 1 Scissors, MAYO, straight, 150mm
- 1 Scissors, dressing, LANGE, straight, 180mm
- 1 Scissors, ligature , SPENCER, 130mm
- 2 Shaving stick

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0063 Instrument set, ENT, casualty

- 1 Auriscope, plastic handle and speculae
- 1 Box, instruments, s/s, w/knobbed cover, 300x200x50 mm
- 2 Depressor, tongue, metal, Adult / Child
- 1 Forceps, aural, HARTMANN
- 1 Forceps, nasal dressing and tampon, TROELTSCH
- 1 Forceps, swab holding, FOERSTER, straight, grooved jaws, 200mm
- 2 Gallipot, s/s, medium, 75mm diameter
- 1 Hook, foreign body lever, GARDINER BROWN, DOWNS
- 2 Kidney dish, assorted sizes, s/s
- 1 Knife handle, surgical, BARD PARKER, No. 3
- 1 Knife handle, surgical, BARD PARKER, No. 4
- 1 Scissors, dressing, LANGE, straight, 180mm
- 1 Speculum, nasal, s/s
- 1 Syringe, aural

01-0064 Instrument set, incision and drainage of abscess

- 1 Box, instruments, s/s, w/knobbed cover, 300x200x50 mm
- 2 Forceps, artery, curved, Crile, 160 mm
- 2 Forceps, artery, straight, Crile, 160 mm
- 1 Forceps, dressing
- 2 Forceps, tissue, Allis, 5x6 t, 150 mm
- 2 Knife handle, surgical, BARD PARKER, No. 3
- 1 Needle holder, MAYO-HEGAR, 178mm
- 1 Scissors, MAYO, curved, 162mm
- 1 Scissors, dissecting, curved, 145 mm
- 1 Scissors, dissecting, straight, 145 mm

01-0065 Instrument set, insertion/removal, IUCD

- 1 Box, instruments, s/s, w/knobbed cover, 300x200x50 mm
- 1 Forceps, artery, SPENCER WELLS, straight, 180mm
- 1 Forceps, sponge, 240mm
- 1 Forceps, uterine, vulsellum, LEWER, 230mm
- 1 Gallipot, s/s, medium, 75mm diameter
- 1 Scissors, dissecting, Mayo, straight, dbl. blunt, 170mm
- 1 Sound, uterine
- 1 Speculum, vaginal, bi-valve, GRAVES
- 1 Speculum, vaginal, bi-valve, Graves, Large, s/s
- 1 Speculum, vaginal, bi-valve, Graves, small, s/s

01-0066 Instrument set, IV cut-down

- 3 Forceps, artery, HALSTEAD, straight
- 3 Forceps, artery, MOSQUITO, curved, 1x2 teeth
- 1 Forceps, dissecting, fine, 1x2 teeth
- 1 Forceps, dissecting, fine, plain ends
- 1 Hook, sharp
- 1 Hook, skin, McINDOE
- 1 Knife handle, surgical, BARD PARKER, No. 3
- 1 Needle, Aneurysm
- 1 Needle holder, KILNER
- 1 Scissors, iris

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0067 Instrument set, post-mortem

- 1 Blowpipe, 150mm
- 1 Chisel, No. 3
- 1 Chisel, with cross handle
- 1 Forceps, bone, 178mm
- 1 Forceps, dissecting, 127mm
- 1 Hammer
- 3 Hook, sharp
- 1 Knife, CATLIN, solid forged, 120mm blade
- 2 Knife handle, surgical, BARD PARKER, No. 3
- 1 Knife, brain, 203mm
- 1 Knife, cartilage, 83mm
- 1 Knife, single edge, 95mm
- 6 Needle, 102mm
- 1 Saw, fixed back
- 1 Scissors, fine point, 127mm
- 1 Scissors, bowel, 178mm
- 1 Skull coronet
- 1 Twine reel, 4.5 metres
- 1 Wrench, spine, for post mortem

01-0068 Instrument set, stitch removing

- 1 Box, instruments, s/s, w/knobbed cover, 200x150x50 mm
- 1 Forceps, clamp removing, MICHEL
- 1 Forceps, dissecting, STILLE, 1x2 teeth, 120mm
- 1 Forceps, swab holding, FOERSTER, straight, grooved jaws, 200mm
- 1 Gallipot, s/s, medium, 75mm diameter
- 1 Scissors, dressing, LANGE, straight, 180mm
- 1 Scissors, ligature , SPENCER, 130mm

01-0069 Instrument set, suture

- 1 Box, instruments, s/s, w/knobbed cover, 200x150x50 mm
- 2 Forceps, artery, HALSTEAD, straight
- 1 Forceps, artery, MOSQUITO, curved, 1x2 teeth
- 1 Forceps, dissecting, 1 plain, 127mm
- 1 Forceps, dissecting, 1 Theves, 127mm
- 1 Forceps, swab holding, FOERSTER, straight, grooved jaws, 200mm
- 1 Gallipot, s/s, medium, 75mm diameter
- 1 Needle holder, MAYO-HEGAR, straight, 160mm
- 1 Scissors, suture

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0070 Hollow ware set, ward, duty station

- 3 Bedpan, adult, s/s
- 3 Bedpan, child, s/s
- 5 Bowl, dispensing, s/s, 25 ml.
- 3 Bowl, wash, s/s, 6 ltr
- 1 Box, soap, 2-piece, hinged, plastic
- 1 Forceps, steriliser, CHEATLE, 270mm
- 1 Gallipot, s/s, medium, 75mm diameter
- 1 Jar, for Cheatles forceps, s/s, 100mm Diam x 200mm
- 2 Jug, measuring, various sizes, s/s
- 3 Kidney dish, s/s, 203mm
- 3 Mug, sputum, s/s
- 3 Tray, serving, s/s
- 2 Urinal, male, s/s

01-0071 Hollow ware, set, consulting room

- 1 Bottle, round screw-cap, amber glass, 50ml
- 1 Bottle, dropper, polyethylene, with pipette, 60ml
- 1 Bottle, flat, plastic, 120ml
- 1 Bowl, sponge, s/s, 600ml
- 1 Box, soap, 2-piece, hinged, plastic
- 1 Jar, ointment, plastic, 60ml
- 2 Kidney dish, s/s, 475ml

01-0072 Hollow ware, set, delivery room

- 2 Basin, utility, p/p, 4 litre
- 1 Bedpan, adult, s/s
- 2 Bowl, sponge, s/s, 600ml
- 1 Bowl, wash, s/s, 6 ltr
- 1 Box, soap, 2-piece, hinged, plastic
- 2 Brush, surgeon's, scrub, autoclavable, nylon bristles
- 1 Forceps, steriliser, CHEATLE, 270mm
- 1 Jar, for Cheatles forceps, s/s, 100mm Diam x 200mm
- 2 Kidney dish, s/s, 203mm
- 2 Kidney dish, s/s, 825ml
- 1 Pail, waste, with cover
- 1 Tray, instrument, p/p, large

Lot	SNr	Descriptor/Specifications
-----	-----	---------------------------

01-0073 Hollow ware, set, treatment room

- 1 Basin, utility, p/p, 4 litre
- 1 Bedpan, p/p
- 1 Bottle, eye dropper, glass, 60ml
- 3 Bowl, dispensing, s/s, 25 ml.
- 2 Bowl, lotion, s/s, 152mm
- 2 Bowl, lotion, s/s, 255mm
- 1 Box, soap, 2-piece, hinged, plastic
- 1 Brush, surgeon's, scrub, autoclavable, nylon bristles
- 1 Douche can, enema, p/p, with tubing
- 1 Douche nozzle
- 1 Eye bath, glass
- 1 Forceps, steriliser, CHEATLE, 270mm
- 3 Gallipot, p/p, 75mm diameter
- 2 Gallipot, s/s, 57ml
- 1 Jar, for Cheatles forceps, s/s, 100mm Diam x 200mm
- 1 Jug, measuring, p/p, 1ltr
- 1 Jug, measuring, various sizes, s/s
- 2 Kidney dish, s/s, 152mm
- 2 Kidney dish, very large, s/s
- 2 Lid for kidney dish, s/s, 152mm
- 2 Lid for lotion bowl, s/s, 152mm
- 1 Measure, medicine, glass
- 2 Measure, medicine, p/p, 50ml
- 1 Tray, instrument, p/p, 350x250x50mm
- 1 Urinal, male, p/p

01-0074 Jug, measuring, graduated in mls & ozs, 2ltr

01-0075 Tray, instrument, set of 3 sizes, covered, s/s, 305x254x51mm