



Cabo Verde

Ministry of Health

Rehabilitation Project Five Health Centres

Equipment and furniture specifications

Lot	SNr	Descriptor/Specifications
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Lot: **04 X-ray equipment**

04-0001 **Gloves, protective, X-ray, pair**

Pair of seamless lead rubber gloves with inner gloves.
Length about 400 mm.
0,25 mm pb, size medium
Large, medium and small size
2 pairs of each size

04-0002 **Protective apron, X-Ray, set, lead, with hanger**

Garments suitable for use in routine procedures, fabricated of multi-ply leaded vinyl fabric, configuration to cover from over shoulders through over thighs, 0.5 mm lead equivalent. With hangers.
2 large size, one with 0.25 mm pb and another 0.5mm pb covers front only.
2 medium, one with 0.25 mm pb, and another with 0.5mm pb covers front only.
2 small one with 0.25 and another with 0-5 mm pb covers front only.

04-0003 **Screen, protective, X-Ray, mobile**

Screen with 2 Foldable flaps with more than 6 castors
Size flaps: 600 mm (w) x 2000 mm (h)
Size main screen: 800 mm (w) x 2000 mm (h)
Window 300mm high x 250mm wide
Level window position, center is approx 155cm from floor in middle panel.
Lead equivalent not less than 2mm Pb

04-0004 **Shield, gonad, female**

OVARIES Shields with 1.00mm Pb equivalent, covered in PVC.
They are adjustable in the width and fitted with locating side tabs for correct positioning

04-0005 **Shield, gonad, male**

T SHAPED GONAD Shields with a centre section of 1.00mm lead, fully encased in a PVC Covering

04-0006 **View box, X-Ray, single, PVC coated**

Opal Perspex front with film retainer bar and stainless steel wet film hanger studs and attachments.
Size 430 x 350 x 120 mm
On/off switch with appropriate cable 230v 50Hz
Supply with fluorescent tubes

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04-0007 X-Ray unit, Direct Digital, Basic system

Direct Digital basic X-ray system, WHO approved;

Tube Stand

Maximum Stand dimensions L 1.8m x W 2.2 m x H 2.5 m
 Source - image distance - SID . 1400 mm (WHO specifications)
 Vertical travel . 1400 mm (Arm in horizontal position), Swivel arm rotation. . +90°/-45°

Digital image acquisition system

- DDR system, Maximum image size. . 400*400 mm
- Cooled CCD camera. .16 bits - 1024*1024 pixels, Maximum resolution. . up to 25 lp/cm (with 2x magnification factor)
- Image Processing software

Noise reduction, Edge enhancement, Digital Zoom, Distances & angles measurement
 File exportation in JPG/BMP/DICOM, Brightness & contrast adjustment
 Patient Management software (Patient data and patient images), Dicom Worklist compatible

Generator

- High frequency generator. 40 kHz
- Battery supplied generator. 30 lead acid batteries of 9Ah
- Power line requirement single phase. 230/240VAC/50/60Hz (standard Outlet - 10Amps)
- Maximum power 32 kW, kVp range from 46 to 120 kVp, mAs available from 0.5 to 500 mAs - 30 steps

X-ray tube, Focus .. 0.3 - 1 mm

Power; Large focus . 36.5 kW (50 Hz), Small focus . 3.2 kW (50 Hz), Nominal voltage 150 kVp

Collimator

Manual collimator . 2 pairs of blades + extra focal
 X-ray field selection (140 cm FFD) . 400*400 mm
 Light field indicator luminosity, (100 cm from focus) . 160 lx
 FFD measurement precision with retractable tape . < 2% of FFD
 Inherent filtration at 75 kV. min.2.0 mm Al., Leakage radiation < 40mR/h

Patient table/ trolley mobile, Mounted on large wheels, swivel type. diameter 200mm anti-static with brakes

Single sided trolley with X-ray transparent top

Control PC, Including:

- 17 inch LCD Display - Image processing software - Patient management
- Mini tower configuration, Intel Core2 Duo processor, 2 GB RAM memory
- Graphic board, Resolution 1280 x 1024, 32 bits colours
- DVD R/RW Burner - 2 x 250 GB Hard disks - 7200 rpm (SATA)
- 6 USB 2.0 (2 in front panel - PS2 - 1 RJ45 10 -100 - USB Optical mouse - Qwerty keyboard.
- Windows XP Pro English

Laserprinter 600 DPI, Compatible With operating software (see above)

Emulation; PCL 6, PCL 5e, postscript level 2

Interface; USB 2.0

Memory 16 Mb

Print Resolution 600 x 600dpi

Print Speed - 14 PPM

Tray Capacity - Input 250 sheets

Incl. starting consumables / cartridges for 10 000 copies