



United Nations Population Fund,
UNFPA - YEMEN
Hadda zone, behind Lazourde Hotel
Sana'a - Yemen
Email: procurement.yemen@unfpa.org
Website: www.unfpa.org

Date: 27/08/2018

Request for Quotation No. YEM-2018-ERFQ-009

Dear Sir/Madam,

UNFPA Yemen hereby solicit your quotation for the supply of **Medical Equipment** as per the technical specifications detailed in Annex 1 of this RFQ.

If you are interested in submitting a quotation for these items, kindly fill in the attached Quotation Submission Form – Annex 2, and send by email to: procurement.yemen@unfpa.org OR to the address indicated below not later than 06/09/2018, by 13:00.

UNFPA Reception: Mr. Khaled Sobae
Street address: Hadda St, behind Lazourde Hotel, Sana'a, Yemen

Email: procurement.yemen@unfpa.org

Quotations submitted by email must be free from any form of virus or corrupted contents, or the quotations shall be rejected.

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNFPA after the deadline indicated above, for whatever reason, shall not be considered for evaluation. If you are submitting your quotation by email, kindly ensure that it is signed and in the .pdf format, and free from any virus or corrupted files.

Full acceptance of the UNFPA General Terms and Conditions is mandatory. They can be located on this webpage at: <http://www.unfpa.org/resources/unfpa-general-conditions-contract>. Non-acceptance of the terms of the General Terms and Conditions (GTC) shall be grounds for disqualification from this procurement process.

Note: Current UNFPA supplier policies apply to this solicitation and can be found at: <http://www.unfpa.org/suppliers>.

Please take note of the following requirements and conditions pertaining to the supply of the above mentioned goods:

Warranty	The warranty period shall be minimum 12 months.
Delivery Terms [INCOTERMS 2010]	<input type="checkbox"/> FCA <input type="checkbox"/> CPT <input type="checkbox"/> CIP <input checked="" type="checkbox"/> DAP
Insurance	Include insurance costs in your quotation.
Delivery Location .	Mas Freight International Warehouse Sana'a- Yemen
Delivery Schedule	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required
Mode of Transport	Trucks / road
Currency of Quotation	<input checked="" type="checkbox"/> United States Dollars <input type="checkbox"/> Euro <input type="checkbox"/> Local Currency (please specify)
All documentations, including catalogs, instructions and operating manuals, shall be in this language	English
Documents to be submitted ¹	<input type="checkbox"/> Duly Accomplished Form as provided in Annex 2, and in accordance with the list of requirements in Annex 1; <input type="checkbox"/> A statement whether any import or export licenses are required in respect of the goods to be purchased including any restrictions on the country of origin, use/dual use nature of goods or services, including and disposition to end users; <input type="checkbox"/> Confirmation that licenses of this nature have been obtained in the past and an expectation of obtaining all the necessary licenses should the quotation be selected; <input type="checkbox"/> Quality Certificates (ISO, etc.); <input type="checkbox"/> Latest Business Registration Certificate ; <input type="checkbox"/> Latest Internal Revenue Certificate / Tax Clearance; <input type="checkbox"/> Manufacturer's Authorization of the Company as a Sales Agent (if Supplier is not the manufacturer); <input type="checkbox"/> Certificate of Exclusive Distributorship in the country (if applicable, and if Supplier is not the manufacturer);

¹ First 2 items in this list are mandatory for the supply of imported goods

	<input type="checkbox"/> Complete documentation, information and declaration of any goods classified or may be classified as “Dangerous Goods”. <input type="checkbox"/> Patent Registration Certificates (if any of technologies submitted in the quotation is patented by the Supplier); <input type="checkbox"/> Written Self-Declaration of not being included in the UN Security Council 1267/1989 list, UN Procurement Division List or other UN Ineligibility List;
Period of Validity of Quotes starting the Submission Date	<input type="checkbox"/> 60 days 90 days <input type="checkbox"/> 120 days
Partial Quotes	<input type="checkbox"/> Permitted Not Permitted
Partial Delivery	Permitted <input type="checkbox"/> Not Permitted
Payment Terms	100% upon complete delivery of goods
Evaluation Criteria	Technical responsiveness/Full compliance to requirements and lowest price Full acceptance of the UNFPA General Terms and Conditions Earliest Dispatch date / Shortest Lead Time
UNFPA will award to:	One and only one supplier <input type="checkbox"/> One and more supplier
Type of Contract to be Signed	Acceptance letter Purchase Order
Conditions for Release of Payment	Written Acceptance of Goods of beneficiary based on full compliance with RFQ requirements
Annexes to this RFQ	<input type="checkbox"/> Specifications of the Goods Required (Annex 1) <input type="checkbox"/> Quotation Form (Annex 2) <input type="checkbox"/> Product Overview Form (Annex 3) Both Annex 2 and Annex 3 need to be duly completed and submitted in order to qualify for the procurement process.

<p>Contact Person for Inquiries (Written inquiries only)</p>	<p>Name : Rani Mansour Title : Procurement Associate Email: al-busaily@unfpa.org</p> <p>Any delay in UNFPA's response shall be not used as a reason for extending the deadline for submission, unless UNFPA determines that such an extension is necessary and communicates a new deadline to the Proposers.</p>
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Technical Specifications

SN	Item	Quantity	Specifications
1	Sonic aid	100	<p>Heart Rate Display (LCD) Automatic Display Freezing After remove from the body Heart Rate Range 50-240 bpm Accuracy ± 2 or 2% Ultrasound Frequency 2MHz Ultrasound Intensity <10mW/cm² Out put Headset with Volume Control Double Audio Output sockets for Headset Power Supply: 1.5V Battery x 2 Sensitivity From 10 - 12 weeks PC Interface cable</p>
2	Delivery bed	150	<p>Product description Bed,labour delivery, with accessories Specifications Bed,labour and delivery, 2 sections All sections fit with padded mattresses, entirely detachable from bed for easy cleaning Mattress covers removable via side zipper Transfer bars connect all lower distal portions of the 4 supports, providing maximal structural strength Body section: Mounted on 4 sturdy supports, all finished with height adjustable feet Padded knee crutches are height and width adjustable, set with robust clamps with heavy knob Fixing of the crutch holders is solid steel and welded to the frame of the bed Leg section: Mounted on 4 swivel castors, heavy duty, all 4 with brakes This section can be lowered and recesses entirely under the body section When fully extended, both the body and leg section align to perfectly flat surface Materials: High resistance to corrosion (tropical environment) Frame: epoxy coated tubular steel Adjustable feet: rubber or nylon Sliders/fixtures for the knee crutches: tubular steel, welded to the bed frame Recession track and guiding wheel for the leg section are smoothly finished for easy in/out sliding Mattress: high-density polyurethane foam, density 27-33 kg/m³ Cover: plastic, flexible, highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable Caster frame/bracket: steel or nylon Caster brake: total-lock type (wheel and rotational lock) Caster wheel: single wheel, mold-on type, non-hooded (for easy</p>

		<p>maintenance) Wheel bearing: sealed bearing in the swivel and the wheel Swivel is ball-bearing Dimensions: Body section, including mattress: 108-132x72-88x72-88cm (l x w x h) Leg section, including mattress: 63-77x67-82x72-97cm (l x w x h) Frame: 2.7-3.3 cm (outside, across), 1.8-2.2mm (thickness) Swivel castor wheel: 2.7-3.3x9-11cm (w x diameter) Mattresses: 9-11cm (h) Carrying capacity: 135-165kg Knockdown construction: yes</p> <p>Supplied with 1 x complete set of tools required for assembly 2 x leg holders, adjustable height and width 2 x knee crutches, adjustable height and width 2 x knee crutches, adjustable height and width 1 x set fitting removable mattresses, body and leg section List of accessories and parts Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only) Packaging, labelling, instructions: One (1) unit per box Identify Packaging Standards and provide Packaging Test Reports Dimensions: Unit Weight in Kg (including its packaging) Unit Volume in M3 (including its packaging) Dimensions of box, length x width x height in cm Labelling: Compliance with EAN 128 bar code requirements</p>
3	Instrument table Mayo type	<p>Product description Table, instrument, Mayo type, stainless steel, on castors Specifications Movable height adjustable instrument table, Mayo type Heavy carriage mounted on 4 swivel castors, of which two with brake and two with anti-static wheel Support column side-on-base, facilitates positioning under low clearance table (e.g. operating table) Both castors with brake mounted at the short side of the base Solid manual lever allows setting telescopic upper part at required height A brake prevents exceeding the maximum height setting Upper section fit with smooth finished removable instrument tray Materials: High resistance to corrosion (tropical environment) Frame and tray: Austenitic stainless steel 18/10 Caster frame/bracket: steel or nylon Caster brake: total-lock type (wheel and rotational lock) Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance), anti-static (for 2) Wheel bearing: sealed bearing in the swivel and the wheel Swivel is ball-bearing Dimensions: Height, adjustable: 72-88 to 108-132cm Upper tray: 54-66x36-44x2.7-3.3cm (l x w x h) Thickness tray: 1.35-1.65mm Frame: 2.7-3.3cm (outside, across), 1.35-1.65mm (thickness) Swivel castor wheel: 2.25-2.65x6.75-7.75cm (w x diameter)</p>

			<p>Carrying capacity: 36-44kg Knockdown construction: yes</p> <p>Supplied with 1 x complete set of tools required for assembly List of accessories and parts Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only)</p>
4	Mobile examination light	100	<p>A light used during examinations or treatment of the patient. It is usually used during examination or treatment during minor events Designed to be easily moved from one location to another. Arm: 105 +/- cm articulated, spring loaded arm, arm with on/off switch and incorporated electronically transformer. Integral rechargeable battery for operation without mains electricity. Mobile stand with swivel castors. Lamp emits natural white light: colour temperature approx. 4000 K. Halogen bulb approx. 12V/20W Light intensity: approx 20.000 Lux at 40 cm. Reflector adjustable for positioning. Free cord: length approx 3 m. Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. Supplied with: 1 x spare bulb a 1x spare fuse. 1x Instructions for use: Manual with instructions for use, cleaning, diagrams for assembly/disassembly (if applicable) and maintenance , storage and handling in English, French, and Spanish) Accessories/ spare parts/consumables 1 spare fuse 1 spare bulb</p>
5	Infant Weighing Scale	100	<p>Product description Scale for weighing babies to monitor growth. Material: Outside made of plastic or metal coated with thermo hardened white paint, very strong. Materials: body made of stainless steel, metal (white baked enamel) or plastic. Measuring range: 0 to approx. 16kg Graduation: minimum every 5g. Readout in kg and in lbs. Easy readable in low light working situations. Reading time: maximum 15 seconds. Includes removable tray for infant. Stable and non-tilting tray. With easy zero adjustment possibility. Adjustable feet allow for horizontal levelling. Design allows rough handling. Smooth surface/finishing allows for easy cleaning/disinfection. All vital parts made of proof materials. Easy maintenance and repair in low tech settings. Splash proof and shock resistant light-weight body. Sturdy design allows heavy duty use. Supplied with: - Text and pictorial user instructions for operation, preventive maintenance and troubleshooting in English/French/Spanish - Splash proof carry bag</p> <p>Instructions for use:</p>

			<p>Scale used for weighing babies to monitor growth. Scale must be used and maintained according manufacturer's instructions</p> <p>Accessories/ spare parts/consumables N/A</p>
6	Suction machine 1.5 - 2 Liters capacity, electric, with infant and adult tubes	100	<p>For use in minor surgical procedures, E.N.T., resuscitation and for aspiration of secretions, pus, bloods etc.</p> <p>Mounted on a stable, portable stand with castors/wheels and handle Castors / wheels to have fully 360 degree swivel, minimum size 75mm. Sturdy shock resistant casing, easy to carry and easy clean.</p> <p>Vacuum Extractor for intermittent and continuous suction. Reciprocating, oil free pump, twin piston type (metallic).</p> <p>Adjustable suction from 0-675mm/Hg (800 mbar) Suction flow maximum, approximately 17L/minute</p> <p>Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 100%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 100%.</p> <p>Suction pipe length: approx. 1.5 m. Explosion proof foot switch for control of vacuum (vacuum 9 bar) Supplied with graduated plastic jar auto-clavable of 3 liters with overflow safety device and antibacterial filter</p> <p>Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. Power consumption, approximately 100W</p> <p>Material: Graduated jar: polysulphone Connection/suction tube: silicone (medical grade) Supplied with: Sterilizable/disposable silicone tubes set for molar aspiration & missed abortion sizes 6, 7, 8, 9 and 10 mm , length approximately 2.5m Connectors for fitting the silicone tubes. Instruction for user: manual with instructions for assembly, use and maintenance, and list accessories and spare parts, in 3 languages (English, French and Spanish). Accessories/Spare parts/Consumables: 1 x Set of silicone tubes 1 x Set of connectors fitting the silicone tubes 1 x Spare jar with cover, gasket and overflow valve 1 x Set of spare antibacterial filters 1 x Set of spare fuses</p>
7	Infant Radiant Warmer (Table, resuscitation, newborn, w/accessories)	30	<p>General Description: Table, resuscitation, newborn, with accessories</p> <p>Product Description: Mobile newborn resuscitation table with radiant warmer Sturdy and stable construction on 4 antistatic ball-bearing swivel castors, 2 with breaks</p>

Two side handles facilitate positioning
 Table surface, approx: 0.60 x 0.90 m (w x l)
 Side panels in transparent acryl, drop down and lockable
 With one storage drawer, under table surface
 Integrated support for two 10 L oxygen bottles
 Side rails to the table surface allows for mounting of accessories
 Fixed-height hood above the table integrates heating element and overhead light
 Vertical column integrates controls and displays
 Overhead examination light: 2 x 40 W halogen spot
 Heating element: emitter with parabolic reflector and protected by metal grid
 Servo temperature control: electronic (thermistor based)
 Preset skin temperature, range approx: 34 to 38 C, increments 0.1 C
 Skin temperature pre-set drives heater output in servo mode
 Easy switch between servo and manual mode
 Skin temperature monitoring via sensor, range: 30 to 42 C (sensitivity ± 0.1 C)
 Sensor thermostat based and factory calibrated
 Manual mode, pre-set heater output: 0 to 100%, in 10% increments
 Integrated timer, preset: 1 to 59 min with up/down count feature, increments 1 min
 Auto-off at time elapse
 Audiovisual alarm on skin temperature (+/- 0.1 C of preset value) and time (elapse)

Large LED display shows:
 Heater output preset in Watt Mode (servo or manual)
 Mode (servo or manual)
 Preset skin temperature
 Actual skin temperature
 Air temperature
 Elapsed or remaining time
 Display reports system errors such: sensor malfunction, timer failure, low/high temperature
 Mattress covering entire table surface, thickness 5 cm
 Cover is waterproof, flame retardant and resistant to common disinfection and cleaning solutions
 Dimensions, approx: 0.90 x 0.80 x 1.90 m (l x w x h)
 Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO.
 Power consumption, approx: 800 W

Supplied with:
 1 x Mattress
 1 x Reusable skin temperature probe, incl. connection cable and plug
 2 x Spare reusable skin temperature probes, incl. connection cable and plug
 1 x Spare heating element
 1 x Set of spare fuses
 Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish).

Accessories/Spare parts/Consumable

		<p>Reusable skin temperature probes, halogen bulbs and fuses.</p> <p>Instructions for use: For neonatal resuscitation, general baby care (specifically additional controlled warming) and roaming in wards. New born resuscitation table with radiant warmer should be operated by qualified staff only, and must be used and maintained properly according manufacturer's instructions. Recommendation: wall plug shall be made available at locally.</p> <p>Packaging & Labelling: Unit presentation: 1 (one) Table, resuscitation, newborn, w/access Symbols used according ISO 15223 CE mark and notified body number</p> <p>Regulation & conformity requirements CE mark conforming to Medical Device Directive (MDD) 93/42/EEC CE certificate (for class IIb, with Notified body number) Classification Class IIb (MDD 93/42/EEC) Safety & product Standards: Must comply with following standards IEC 60601-1:2012 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance IEC 60601-1-1:2000 Medical electrical equipment - Part 1-1: General requirements for safety - Collateral standard: Safety requirements for medical electrical systems IEC 60601-1-2:2007 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests IEC 60601-2-21:2009 Medical electrical equipment -- Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers IEC 60601-2-41:2009</p>
8	IV stands	<p>200</p> <p>Product description Stand, infusion, double hook, on castors Specifications Movable height adjustable infusion stand Heavy carriage mounted on 5 swivel castors Lower-end support column is deep and securely fixed into the carriage-base Solid manual lever at the upper-end of the support column, allows setting telescopic upper part at the required height A brake prevents exceeding the maximum height setting Double hook fixed at the top of telescopic rod Materials: High resistance to corrosion (tropical environment) Support and telescopic column: Austenitic stainless steel 18/10 Carriage-base: single molded unit, polypropylene Caster frame/bracket: polypropylene or nylon Wheel bearing: polypropylene or nylon Castor fixation into carriage base: stainless steel Dimensions: Height, adjustable: 140-200 cm Carriage-base, diameter: 54-66cm Support column: 2.7-3.3cm (outside, across), 1.35-1.65mm (thickness)</p>

			<p>Telescopic upper part: 2.25-2.75cm (outside, across), 1.35-1.65mm (thickness) Swivel castor twin-wheel: 3.6-4.4 x 4.5-5.5cm (w x diameter) Carrying capacity: 1.8-2.2 x 4.5-5.5kg Knockdown construction: yes</p> <p>Supplied with 1 x complete set of tools required for assembly List of accessories and parts Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawing)</p>
9	Autoclave 24 liters	40	<p>Steam sterilizer, pressure type, capacity 24 litres. Product Description: Steam sterilizer/autoclave for sterilizing medical materials such as dressings and surgical instruments under superheated steam. Metal vessel with high-pressure seal suitable for sterilization under superheated steam. Maximum pressure: 21 PSI / 1.5 bar. Maximum temperature: 259°F / 126°C. Metal to metal seal (no rubber gaskets). Safety clamping locks: retaining bayonet clamp and (6) Bakelite wing nuts to prevent displacement of cover while sterilizer is under pressure. Inner Chamber dimensions: Chamber, approximately: diameter 315mm x height 290mm. Aluminium container, approximately: diameter 285mm x height 250mm. Sterilization capacity, approximately: 24 litres. Removable cover equipped with: Bakelite handle. Dial type geared steam gauge graduated in kg / cm², PSI and degrees Fahrenheit, and with colour-coding showing sterilizing zone (green) and caution zone (red). Control valve and flexible metal exhaust tube. Excess pressure relief valve and over-pressure rubber plug. Supplied with: 1 x spare over pressure rubber plug Instructions for use and cleaning/maintenance and with diagrams for assembly/disassembly; in 3 languages (English, French and Spanish). Listing of parts, accessories and spare parts.</p>
10	Sphygmomanometer	200	<p>Type: Blood Pressure Monitor Measure:0-300mmHg, Aluminium, Manual</p>
11	Stethoscope	200	<p>Dual Head Stethoscope, dual head chestpiece with non-chill rubber rings, binaural, aluminium with plastic tips. Supplied with spare diaphragm and two pair soft eartips.</p>
12	Cusco's Speculum Large size	70	<p>Product Description: Vaginal speculum, Cusco, for examining the walls of the vagina and cervix of the uterus</p> <p>Material: Austenitic steel (non-quenched, non-magnetic steel). composition: From 16.5% to 18.5% chromium; From 10.5% - 13.5% nickel; From 2 % to 2.5% molybdenum. Double beaked, vaginal speculum self-retaining.</p>
13	Cusco's Speculum Medium size	70	<p>Product Description: Vaginal speculum, Cusco, for examining the walls of the vagina and</p>

			<p>cervix of the uterus</p> <p>Material: Austenitic steel (non-quenched, non-magnetic steel). composition: From 16.5% to 18.5% chromium; From 10.5% - 13.5% nickel; From 2 % to 2.5% molybdenum. Double beaked, vaginal speculum self-retaining.</p>
14	Adult weighting scale	100	<p>General Description: Physician scale beam balance for growth monitoring of adults.</p> <p>Product description All metal construction (stainless steel preferred) Leaf spring beneath poise to facilitate zeroing. Knob on handpost (support pole) to be glued and screwed in place. Beam mechanical scale with 2 sliding weights, one for kg and one for gram. Beam to be secured so that steelyard rods cannot become disconnected. Calibration screw of stainless steel. Strong and stable. Paint thickness 50 microns or more. All screw heads used for assembly to be hexagonal. All exposed parts treated with a rust inhibitor. All moving parts must be secured and retained during shipment. Non-skidding surface. Attached measuring apparatus: 60 - 230 cm. Graduation: every 50 g. With 100 g precision. Measuring range: 0 to 200 kg. Colour: White.</p> <p>Supplied with: - Instructions for use, preventive maintenance and troubleshooting in English, French and Spanish, appropriately illustrated with pictograms and graphics.</p> <p>Instructions for use: Physician scale beam balance used for growth monitoring of adults. Must be used and maintained according manufacturer's instructions Accessories/ spare parts/consumables N/A</p> <p>Packaging & Labelling: Each scale must be individually packed in a triple wall carton with sufficient insert wrappings to protect the scale during transit. Symbols used according ISO 15223 CE mark with notified body number Regulation & conformity requirements CE mark conforming to Council Directive 93/42/EEC on Medical Devices CE certificate (for Class Im with Notified Body number) CE mark conforms to EU 90/384/EEC for non-automatic weighing instruments Classification Class Im – Class I measure (Devices with a measuring function ,MDD 93/42/EEC)</p> <p>Safety & product Standards: Must comply with following standards</p>

			IEC 60601-1:2005; IEC 60601-1-1:2000 IEC 60601-1-2:2007; IEC 62366:2007
15	Incubator	100	<p>General Description: Incubator, infant, automatic, with accessories</p> <p>Product Description: Automatic infant incubator operated by electricity for use in neonatal intensive care unit. Controlled by microprocessor or microcontroller. With digital servo/air control Temperature control modes air and skin Head end raise facility with auto lock. Trendelenburg and inverse trendelenburg positions. Dimension for hood: approx. W82 x H48 xD 50 cm Dimension for cabinet: approx. W100 x H70 xD65 cm Dimension for mattress: approx. W70 x H38 Mattress tilting angle: 0 to 12 degrees</p> <p>Display parameters: - Patient temperature - Air Temperature - Visual and audible alarms for: i. Patient and air high/low temperature alarm. ii. Air circulation / probe / system / power failure alarm. iii. Humidity alarm. - Temporal alarm silencer. - Heater power indicator</p> <p>Components: - Transparent cabinet. - Double-wall with air circulation between the hood and the double wall. - One door with air curtain. - Mattress with washable and waterproof cover. - Accommodates shelves and I/V poles. - Mounted on stationary table, base of which is at least 80 cm high - At least four ports for tubes access to the interior of the hood. - At least four ports to access the patient. - At least one door or drawer or accessories base. - Monitor console platform to fit vital monitor or pulse oxymeter preferred.</p> <p>Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO</p> <p>Incubator performance: - Starting temperature: approx. 20°C. - Warm up time: 20 minutes or less. - Servocontrolled mode to adjust patient's skin temperature not lower than 34°C up to 37°C. With an amplified range from 37°C to 38°C. - Servocontrolled mode to adjust air temperature from 23°C or less to 37°C or more. - With an amplified range from 37°C to 39°C. - Minimal resolution of 0.1 °C. - Measurement accuracy: +/- 0.1 degree Celsius. - Microcontrolled humidifier with range 40 to 80%</p>

- Oxygen input flow rate 5 to 15 litres/min or oxygen concentration range 25 to 70%.
 - Maximum CO₂ concentration inside incubator 0.2%.
 - Air filter: 0.57m
 - Air filter capacity: 98% (for 0.57m).
 - Noise level in the interior of the hood less to 50 dBA
- Incubator monitoring:
- Integrity testing of all system parameters.
 - Clear text display of operating and alarm situation, with set and measured values.
 - Safety availability test: approx. every 5 minutes.
 - Permanent automatic verification of probes and control heating devices.
 - Possible technical monitoring via PC (thorough communication plug).
 - Audible and visual alarms: Power failure, system failure, sensor failure, over temperature failure, air flow failure, heater failure, air temperature failure, skin temperature failure, low-water.

Supplied with:

- 1 x Spare set of skin probes
- 2 x IV pole (with medical rail fixation clamp if applicable)
- 3 x Set of spare air filters
- 1 x Set of spare fuses
- 1 x Instructions for assembly, use and maintenance in English

Instructions for use:

Automatic incubator for use in neonatal care units. Incubator should be operated by trained staff only.
 Air filters to be replaced every 6 months.
 Incubator must be used and maintained according to manufacturer's instructions.
 Recommendation: wall plug shall be made available locally.

Accessories/ spare parts/consumables

Spare air filter and fuses, set of skin probes.

Packaging & Labelling:

Unit presentation 1 (one) Pump, suction, surgical, 2 bottles, w/access
 Symbols used according to ISO 15223
 CE mark and notified body number

Regulation & conformity requirements

CE mark conforming to Medical Device Directive (MDD) 93/42/EEC
 CE certificate (for class IIb with Notified body number)

Classification

Class IIb (MDD 93/42/EEC)

Safety & product Standards:

Must comply with following standards
 (IEC 60601-1:2005 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
 IEC 60601-1-1:2000 Medical electrical equipment - Part 1-1: General requirements for safety - Collateral standard: Safety requirements for medical electrical systems
 IEC 60601-1-2:2007 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance -

			Collateral standard: Electromagnetic compatibility - Requirements and tests IEC 60601-2-19:2009 (Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators)
16	ICU bed with mattresses	30	<p>Product description Bed, hospital, Intensive Care Unit, with mattress.</p> <p>Specifications Hospital bed, intensive care, 4 sections Mounted on 4 swivel castors, heavy duty, 2 with brake Transfer bars connect lower distal portions of the 2 foot-end and the 2 head-end legs, providing maximal structural strength Protective bumpers at all four corners Bed-ends, finished with panels Four section platform, epoxy-painted steel mesh with side supports to immobilize mattress Mattress cover removable via side zipper Manually operated crank allows adjusting backrest (to 80 degree), leg section and foot section Crank-handle folds away underneath the bed With adjustable and removable folding side rails</p> <p>Materials: High resistance to corrosion (tropical environment) Frame: epoxy coated tubular steel. Mattress: high-density polyurethane foam, density 27-33 kg/m³ Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable Caster frame/bracket: steel or nylon Caster brake: total-lock type (wheel and rotational lock) Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance) Wheel bearing: sealed bearing in the swivel and the wheel Swivel is ball-bearing</p> <p>Dimensions: Sleeping surface: 180-220x81-99cm (l x w) Height of surface, without mattress, fixed: 45-55cm Mattress: 11-13cm (h) Bed frame: 4.5-5.5x2.7-3.3cm, 1.8-2.2mm (thickness) Leg frame 2.7-3.3cm x 1.8-2.2mm (Thickness) Swivel castor wheels: 2.7-3.3x11-13cm (w x diameter) 2 castors with brakes Carrying capacity: 135-165kg. Knockdown construction: yes</p> <p>Supplied with 1 x complete set of tools required for assembly 1 x fitting mattress with cover 2 x removable folding side rails List of accessories and parts Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only)</p>
17	Stretcher, patient, with side rails	40	<p>Product description Stretcher, patient, with side rails</p> <p>Specifications Stretcher designed specifically for patient transport, 2 sections Heavy duty carriage mounted on 4 swivel castors, two with brake and two with anti-static wheel Both sections fitted with non-removable padded upholstery</p>

			<p>Backrest angle adjustable via secured pawl and gear ratchet, safe for patient and operator</p> <p>When fully extended, both sections align to perfectly flat surface</p> <p>Transfer bars connect all lower distal portions of the 4 castors, providing maximal structural strength</p> <p>Base of stretcher fit with large meshed utility shelf</p> <p>Shelf is securely fixed, free from shaking and vibrations during transport</p> <p>With fold-away side rails</p> <p>Protective bumpers at all four corners</p> <p>Head-end side has removable height adjustable IV-pole, height is set with robust clamp with heavy knob</p> <p>Fixings of the fold-away side rails and IV-pole is solid steel and welded to the frame of the stretcher</p> <p>Material:</p> <p>High resistance to corrosion (tropical environment)</p> <p>Frame: epoxy coated tubular steel</p> <p>Padded upholstery: high-density polyurethane foam, density 2.7-3.3 kg/m³</p> <p>Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable</p> <p>Caster frame/bracket: steel or nylon</p> <p>Caster brake: total-lock type (wheel and rotational lock)</p> <p>Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance), anti-static (for 2)</p> <p>Wheel bearing: sealed bearing in the swivel and the wheel</p> <p>Swivel is ball-bearing</p> <p>Dimensions:</p> <p>Stretcher, two sections extended, including upholstery: 160-200x50-60x72-88cm (l x w x h)</p> <p>Fold away side rails: 50-80-x35-45-33xcm (l x h)</p> <p>Frame: 2.7-3.3cm (outside, across), 1.8-2.2mm (thickness)</p> <p>Swivel castor wheel: 2.7-3.3x11-15cm (w x diameter)</p> <p>Upholstery: 4.5-55cm (h)</p> <p>Carrying capacity: 135-165kg</p> <p>Knockdown construction: yes</p> <p>Supplied with</p> <p>1 x complete set of tools required for assembly</p> <p>1 x meshed utility shelf</p> <p>2 x fold-away side rails</p> <p>1 x IV pole</p> <p>List of accessories and parts</p> <p>Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only)</p> <p>Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only)</p>
18	Ventilator	40	<p>ICU ventilators provide artificial respiratory support to the critical patients in the Intensive Care Units.</p> <p>2. Operational Requirements</p> <p>2.1 Microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for New born to adult ventilation.</p> <p>2.2 Demonstration of the equipment whenever required</p> <p>3. Technical Specifications</p> <p>3.1 Imported hinged arm holder for holding the circuit</p> <p>3.2 Colored TFT screen, 10 Inch or more</p> <p>3.3 Facility to measure and display a) (line deleted) b) min 2 waves-</p>

Pressure and Time, Volume and Time and Flow and Time. c) min 2 loops-P-V, F-V, P-F with facility of saving of min 2 Loops for reference. d) Graphic display to have automatic scaling facility for waves e) Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock etc

3.4 Trending facility for minimum 48 hours with minimum 5 minutes resolution for recent 24 hours

3.5 Automatic compliance & Leakage compensation for circuit and ET tube

3.6 Following settings for all age groups. a) Tidal Volume b) Pressure (insp) c) Pressure Ramp d) Respiratory Rate e) SIMV Respiratory Rate f) CPAP/PEEP g) Pressure support h) FIO2 i) Pause Time

j) Pressure & Flow Trigger

3.7 Monitoring of the following parameters a) Airway Pressure (Peak & Mean) b) Tidal volume (Inspired & Expired) c) Minute volume (Inspired and Expired) d) Spontaneous Minute Volume e) Total Frequency f) FIO2 dynamic g) Intrinsic PEEP and PEEPi Volume h) Plateau Pressure i) Resistance & Compliance j) Use selector Alarms for all measured & monitored parameters

3.8 Modes of ventilation a) Volume controlled b) Pressure Controlled c) Pressure Support d) SIMV (Pressure Control and volume control) with pressure support e) CPAP/PEEP f) Inverse Ratio Ventilation g) Advanced mode like pressure controlled volume guaranteed h) Non Invasive ventilation i) APRV or equivalent

3.9 Apnoea /backup ventilation

3.10 Expiratory block should be autoclavable and no routine calibration required or with expiratory autoclavable filter. In case of filter, min 10 nb should be provided with the machine.

3.11 Should have the ability to calculate /Procedure a. Intrinsic Peep & Intrinsic PEEP Volume b. Occlusion Pressure c. Spontaneous Breathing trial d. Facility to calculate lower and upper inflection point

3.12 Nebuliser with capability to deliver particle size of < 3 micron & to be used in both Off and On line

3.13 Automatic Patient Detection facility preferable

3.14 Medical Air Compressor. a) Imported standalone Medical Air compressor from same manufacturer as ventilator. b) Snap fit with the Ventilator module to provide an oil free Medical air. c) Peak output flow should be minimum 160 LPM. d) Air quality should comply with ISO compressed air purity class. e) Medical Air Compressor should automatically activate in the event of wall air supply loss. f) Replacement of internal filters should be performed without removing the compressor g) should have washable air filter.

3.15 Technical Specifications for reusable face mask & nasal mask. Reusable face & nasal mask with textured dual flap silicone cushion flap for easy fit. Removable forehead support and pad to match the angle of patient's forehead Stability Selector for easy fit and angle. Ball & Socket headgear attachments. Should be autoclavable.

3.16 Battery backup for minimum 30 minutes (for ventilator)

3.17 RS 323C interface for communications with networked devices.

3.18 Automatic patient detection facility preferable.

4. System Configuration Accessories, spares and consumables

4.1 ICU Ventilator-01

4.2 Adult and Paediatric autoclavable silicone breathing circuits-02 ea

			<p>4.3 Reusable Masks (Small, Medium, Large) with each machine.-02 sets ea</p> <p>4.4 Medical Air Compressor.</p> <p>4.5 Humidifier-Servo controlled with digital monitoring of inspired gas temperature complete with internal heating wire-01</p> <p>4.6 Filter paper for humidifier for 100 uses-01</p> <p>5. Environmental factors</p> <p>5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%</p> <p>5.2 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.</p> <p>5.3 The unit shall be capable of operating continuously in ambient temperature of 10-40deg C and relative humidity of 15-90%</p> <p>6 Power Supply</p> <p>6.1 Power input to be 220-240VAC, 50Hz</p> <p>6.2 Resettable overcurrent breaker shall be fitted for protection</p> <p>7 Standards, Safety and Training</p> <p>7.1 Certified to be compliant with ANS/IEC60601.2.12-01 Medical Electrical Equipment—Part 2-12; Particular Requirements for the Safety of Lung Ventilators—Critical Care Ventilators</p> <p>7.2 Should be FDA and European CE approved product</p> <p>7.3 Certified to be compliant with ISO-7767 for Oxygen monitoring.</p> <p>7.4 Should meet IEC 529 Level 3 (IP3X)(spraying water) for enclosure protection , water ingress.</p> <p>7.5 Demonstration of quoted equipment whenever asked for.</p> <p>7.6 Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carryout preventive maintenance test as per guidelines provided in the service/maintenance manual.</p> <p>7.7 Comprehensive warranty for 3 years and provision of CMC for next 3 years.</p> <p>7.8 Back to back warranty to be taken by the supplier from the principal to supply spares for a minimum period 10 years.</p> <p>8. Documentation</p> <p>8.1 Certificate of calibration and inspection from factory.</p> <p>8.2 List of Equipment's available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.</p> <p>8.3 User Manual in English</p> <p>8.4 Service manual in English</p> <p>8.5 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>8.6 List of important spare parts and accessories with their part number and costing.</p> <p>8.7 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.Any point ,if not substantiated with authenticated catalogue/manual, will not be considered.</p> <p>8.8 Must submit user list and performance report within last 3 years from major hospitals.</p> <p>8.9 Back to back comprehensive warranty to be taken by the supplier from the principal to supply spares for minimum 10 years</p>
19	Bedside I Patient Monitor	40	<p>Product Description: Bedside patient monitor for monitoring of vital signs of all patient categories.</p>

Measures and stores patient status for the following:
 ECG, with ST Segment Analysis
 Heart rate (HR)
 Respiration rate (RR)
 Invasive blood pressure (IBP)
 Non-invasive blood pressure (NIBP)
 Arrhythmia
 Pulse rate
 Temperature
 Cardiac output
 (Central) apnea
 SpO2
 With colour display monitor. At least 3 channel
 Digital display of all active parameters and trace display of at least three selectable parameters
 Unwanted parameters can be deselected from display

Measurements, ranges:
 ECG leads I, II, III
 HR at least 30 to 250 bpm, with accuracy better than ± 5 bpm and minimum gradation 1 bpm
 RR at least 0 to 100 bpm, minimum gradation 1 bpm
 Blood pressure monitoring at least 30 to 300 mmHg, minimum gradation 1 mmHg
 Temperature range at least 30 to 40 deg C, minimum gradation 0.1 deg C
 SpO2 at least 70 to 99 %, with accuracy better than $\pm 3\%$ and minimum gradation 1%

NIBP oscillometric step deflation, manual/automatic, initial inflation pressure user selectable.
 Sensitivity (amplitude) of all signals user adjustable
 Standardising marker, 1mV
 User pre-set of high/low alarms on all monitored parameters
 Temperature probe to be reusable, external skin contact type
 Alarm override and temporary silence facility to be included
 Audio-visual alarms required: high and low levels for each parameter (operator variable settings), sensor / wire / probe disconnected, low battery
 Trend display from 2 to 24 hours
 Data interface (for ECG) RS232, BNC, USB or equivalent
 Viewing monitor: minimum 10-inch

Memory storage: minimum 72 hours
 Event management save feature
 Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO.

Supplied with:
 1 x Set of spare fuses
 NIBP accessories:
 3 x NIBP hose (1 x neonate, 1 x infant, 1 x adult)
 3 x Blood pressure cuff (1 x infant, 1 x child, 1 x adult)
 ECG accessories:
 2 x Patient cable extremities (1x neonate/paediatric, 1 x adult)
 2 x Set of electrodes (1x neonate/paediatric, 1 x adult)

			<p>Temperature accessories: 2 x Skin temperature probes (incl. connection cable)</p> <p>Pulse oximetry (SpO2) sensors with cable and plug 2 x Adult size, reusable clip-on type 2 x Infant size, reusable clip-on type 3 x New-born size, reusable clip-on type 10 x New-born size, single-use wrap-around type 1 x Instructions for use ; instruction manual including instructions for assembly, use and maintenance, and list of accessories and spare parts, in 3 languages (English, French and Spanish) Accessories/ spare parts/consumables NIBP accessories, ECG accessories , SpO2 accessories, temperature accessories, spare fuses (if non-resettable fuses used)</p> <p>Packaging & Labelling: Unit presentation 1 (one) Monitor unit, with accessories and Instructions for use. Symbols used according ISO 15223 CE mark and reference number of notifying body.</p> <p>Regulation & conformity requirements CE mark conforming to Medical Device Directive 93/42/EEC CE certificate (Class IIb) ISO 13845:2003 certified</p> <p>Classification MDD 93/42/CEE – Class IIb</p> <p>Safety & product Standards: Must comply with following standards: ISO 13845:2003 IEC 60601-1:2005; IEC 60601-1-1:2000 ; IEC 60601-1-2:2007; IEC 60601-2-49:2011; IEC 60601-1-8 :2012</p>
20	Operating light mobile type	40	<p>Light, operating, mobile MODEL TRIS-LED MOBILE STAND</p> <p>Product Description: Device used for providing a specialized source of light for illumination of a site of medical intervention. It provides a high intensity, high colour rendering field of light that minimizes shadows and the emission of heat. Mobile on heavy sturdy stand, On 4 antistatic ball-bearing swivel castors, 2 with breaks Spring balanced articulating arm Low centre of gravity for optimal stability and reach 4 LED MODULES Adjustable Operating field diameter with focus control Illumination: 100.000 lux Colour temperature: approximately: 4300K Backup battery 3 hours autonomy, automatic recharge Automatic switch from mains to batteries in case of power failure With battery status indicator Removable autoclavable handle Power supply: Voltage 100 - 240V, Schuko plug</p>

			<p>Supplied with: Spare halogen bulbs are not necessary (LED sources 50.000 hours autonomy)</p> <p>Supplied with: 1 x Spare handle 1 x Set of spare fuses</p> <p>Instructions for use: Manual with instructions for use, cleaning, sterilization, diagrams for assembly/disassembly (if applicable) and maintenance, storage and handling in English</p> <p>Instructions for use: For basic health infrastructures; in support of surgical interventions in operating theatres, delivery rooms, dressing rooms and emergency departments. After each intervention, the handle should be disinfected, cleaned and sterilized by steam sterilizer. Must be used and maintained properly, according manufacturer's instructions.</p> <p>Regulation & conformity requirements CE mark conforming to Medical Device Directive 93/42/EEC CE self-declaration (Class I) ISO 13845:2003 certified Classification Classification Class I (MDD 93/42/EEC) Safety & product Standards: Must comply with following standards: ISO 13845:2003 IEC 60601-1:2005; IEC 60601-1-1:2000 IEC 60601-1-2:2007; IEC 60601-2-41:2009 Environmental requirements: LED technology Low consumption Rosh compliance</p>
21	Portable ultrasound	60	<p>Ultrasound, scanner, digital, portable, with accessories Portable high-performance ultrasound system, main unit. Compact and lightweight, easy to carry Size WHD 29-x32x25cm, weight: 10kg Monitor with screen: simple controls, straightforward operation. Scanning method: electronic convex sector probe, electronic linear. Imaging display modes: B, dual B, M, and B and M Imaging technologies: dynamic frequency imaging, multi-stage focusing and aperture control. Image gray-scale: 64 levels Depth range selection: convex sector image and linear image, 3 steps. Image orientation: lateral and vertical inversion (in B mode).</p> <p>Measuring and analysis: Calibre control: trackball. On B-mode image: distance, area and circumference via ellipse or trace method; and volume, ratio, gestational age, foetal weight, angle. Gestational table: user programmable. On M-mode: velocity, time interval, depth, heart rate, LV function</p>

			<p>Characters & graphics: Patient information, annotation area, body mark display. Automatic display: date and time, focal-point setting, image orientation mark, image scrolled position, distance scale mark, M-mode time mark, and grey scale for calibration Selectable On/Off automatic display: gain setting, near gain setting, far gain setting, probe frequency, and puncture guide line. Viewing monitor: 7-inch diagonal monitor with non-reflexion filter. Video output: 625 lines per frame</p> <p>Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO.</p> <p>Operation temperature -10 to +40°C, relative humidity 30 to 85% non-condensing. Storage temperature -10 to +50°C, relative humidity 10 to 90% non-condensing. Supplied with: 1 x scanner, ultrasound portable system, main unit with accessories. 1 x standard electronic convex sector probe: frequency 3.5MHz, scanning angle 60°, radius 60mm 1 x ultrasonic gel 5-litre container. 1 x Instructions for assembly, use and maintenance in English, French and Spanish</p>
22	Electrosurgical Unit	40	<p>Product Description: Electro surgical generator for use in general surgery for the cutting of soft tissues and coagulation</p> <p>Microprocessor controlled generator provides mono-polar and bi-polar output High frequency Suitable for monopolar cutting and coagulation Suitable for bipolar electro surgery Monopolar maximum power up to 200W (cutting), up to 100W (coagulation) Bipolar maximum power up to 45 W (coagulation) Modes: cutting (pure, blend and hemostasis) and coagulating (soft, force, spray and bi-polar)</p> <p>Front panel allows control of: power cutting, power coagulation, on/off</p> <p>Double function foot switch (mono and bi-polar), with yellow pedal cutting and blue pedal coagulation Hand switch mode when button-activated probes are connected Return circuit sensing monitors and deactivates generator in case patient plate fails Display reports: output power, system errors and electrode failure Automatic limitation of output voltage Reduced emission of interferences and limitation of HF leakage current Alarm in case of HF overpower Visual and audible activation indicators required Visual and audible cable disconnection alarm required Protected against defibrillation shocks</p> <p>Autoclavable handle and electrodes that can withstands more than</p>

			<p>250 sterilization cycles at 134°C.</p> <p>Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO.</p> <p>Supplied with:</p> <p>1 x Foot switch, two pedals, yellow and blue, with connecting cable</p> <p>2 x Patient plate, reusable, with connecting cable (adult & child)</p> <p>2 x Mono-polar electrode handle, reusable, foot switch controlled, with connecting cable</p> <p>2 x Mono-polar electrode handle, reusable, finger switch controlled, with connecting cable</p> <p>1 x Set different mono-polar reusable electrodes (needle, blade, ball and loop)</p> <p>2 x Bi-polar forceps, reusable, foot switch controlled, with connecting cable (short, straight, tip-angled)</p> <p>2 x Bi-polar forceps, reusable, foot switch controlled, with connecting cable (long, straight, tip-angled)</p> <p>1 x Instructions use: Manual with instructions for assembly, use and maintenance in English,</p> <p>Instructions for use:</p> <p>To be used for cutting and coagulation of soft tissues and blood vessels during surgical interventions.</p> <p>Electrosurgical unit must be used and maintained properly according manufacturer's instructions.</p> <p>Accessories/ spare parts/consumables</p> <p>Two sets of spare fuses (if replaceable fuses used)</p> <p>2 reusable, sterilizable, monopolar patient plates with minimum 2m long connection cable</p> <p>Two each of reusable, sterilizable, monopolar and bipolar probe</p> <p>Disposable plates Connection cable for plates..Removable</p> <p>Electrodes:</p> <p>Packaging & Labelling:</p> <p>Unit presentation: 1 (one) Electrosurgical unit,w/access</p> <p>Symbols used according ISO 15223</p> <p>CE mark and reference number of notifying body.</p> <p>Regulation & conformity requirements</p> <p>CE mark conforming to Medical Device Directive (MDD) 93/42/EEC</p> <p>CE certificate for class IIb</p> <p>ISO 13845:2003 certified</p> <p>Classification</p> <p>Class IIb (MDD 93/42/EEC)</p> <p>Safety & product Standards:</p> <p>Must comply with following standards</p> <p>ISO 13485:2003</p> <p>IEC 60601-1:2005</p> <p>IEC 60601-1-1:2000</p> <p>EC 60601-1-2:2007</p> <p>IEC 60601-2-2:2009</p> <p>Environmental requirements:</p> <p>Rohs compliance</p>
23	Anesthetic machine	40	<p>General Description:</p> <p>Anaesthesia machine closed circuit, with accessories</p> <p>Product Description:</p> <p>A gas machine for anaesthesia is a device that continuously or intermittently administers and monitors a mixture of gases</p>

(oxygen, nitrous oxide, and volatile anaesthetics) to aid in providing a patient with an appropriate level of anaesthesia, and to maintain a patient's ventilation.

Anaesthesia machine closed breathing circuit configuration.
Suitable for paediatric and adult patients.

Stable sturdy construction on 4 antistatic swivel castors, 2 with brakes.

Trolley with upper shelf that to mount a monitor in a flexible and easy way, allowing an ergonomic viewing

Handles facilitate positioning of the machine.

Movable arm holder for supporting patient breathing circuit.

If O₂ / N₂O supplied by bottle, holders for bottles to include secure locking mechanism.

Material

tubing and mask: DEHP free

Externally supplied anaesthetic gas, oxygen and air mixture ratios fully controllable. Separate flow control for O₂, N₂O and anaesthetic agents.

Rotameter tubes 0 to 10L/minute for O₂ and N₂O

Mixer secures a minimum of 25% oxygen

Gas supply gauges required, with scales allowing easy reading. Gas supply input 2 to 6bar

Minimum of 2 vaporizers.

Nebuliser to deliver particle size of < 3 micron and to be used in both offline and online modes.

Soda lime absorber, with 2.5kg reservoir and adjustable pressure limiting valve

Non-return and three way valve, with connecting tube

Ventilator:

Modes Automatic Volumetric (IPPV) and Manual

Pneumatically driven, electronically controlled compressor, minute volume 2 to 25L/minute

Tidal volume 20 to 1500ml

Respiratory rate 5 to 70 cycles/minute

I/E ratio 2/1 to 1/4

Inspiration pressure 0 to 80mbar

Peak inspiratory flow 0 to 60L/minute

Trigger sensitivity 0 to -20mbar

Display fit with broncho manometer, range approximately -10 to 100mbar

Facility to measure and display on screen:

a) 3 traces against time: pressure, volume and flow

b) 3 two-axis displays: Pressure-Volume, Flow-Volume and Pressure-Flow

c) Airway pressure (Peak and Mean).

d) Tidal volume (Inspired and Expired).

e) Minute volume (Inspired and Expired).

f) I:E ratio

g) inspiration and expiration times

h) Spontaneous Minute Volume

- i) Respiratory rate (spontaneous and mechanical).
- j) Total Frequency.
- k) Oxygen concentration
- l) End tidal CO2 with capnography
- m) FiO2 dynamic.
- n) Intrinsic PEEP and PEEPi Volume.
- o) Plateau Pressure.
- p) Resistance and Compliance.

Trend display facility for at least the last 8 hours, with minimum 5 minutes resolution
Automatic compliance and leakage compensation for circuit and tubes.

Front panel shows status, errors and sensors failure (low/high pressure, power failure)
Audio-visual alert on low/high pressure, apnoea, power failure
Display of operational status, with set and measured values
Front panel shows status and errors (low/high pressure, power failure, battery status)
Safety features for hypoxic mixtures, oxygen failure (emergency O2 bypass), overpressures
Self-diagnosis with each start-up and integrity testing of all system parameters
With adjustable patient-circuit support arm
Built-in rechargeable battery, autonomy approximately 2 hours
Automatic switch to battery in case of power failure, automatic recharge when connected to mains

Power supply: The supplier has to supply the right voltage, plug and socket type that fit the country it is delivering the goods to. The country of destination would be stated in the UNFPA's PO.

Power input to be fitted with compatible mains plug.
Voltage corrector / stabilizer to allow operation at $\pm 30\%$ of local rated voltage.
Resettable overcurrent breaker required on both live and neutral supply lines.
Voltage corrector / stabilizer to allow operation at $\pm 30\%$ of local rated voltage.
An internal battery capable of powering the unit for at least 30 minutes.

Supplied with:

- 1 x Paediatric reusable breathing circuit (tubes/balloons/valves/masks)
- 1 x Adult reusable breathing circuits (tubes/balloons/valves/masks)
- 2 x Soda lime absorber grains, pack/2.5kg
- 1 x Spare parts/maintenance kit (air filters, tubing, O-rings)
- 2 x Sets of reusable masks, each of: small, medium and large (textured for easy fit)
- 1 x Set of spare fuses
- 1 x Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish)

Accessories/ spare parts/consumables
1 x Paediatric reusable breathing circuit

			<p>(tubes/balloons/valves/masks) 1 x Adult reusable breathing circuits (tubes/balloons/valves/masks) 2 x Soda lime absorber grains, pack/2.5kg 1 x Spare parts/maintenance kit (air filters, tubing, O-rings) 2 x Sets of reusable masks,, each of: small, medium and large (textured for easy fit) 1 x Set of spare fuses 1 x Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish)</p>
24	Operating table	40	<p>General purpose operating table, 4 areas, 5 sections Stainless steel finished base on 4 castors Central brake lowers the table onto 4 robust, height adjustable feet Solid reinforced base creates maximum stability, with patient, up to the limits of each position Base is fit with earth connection Gear, lever and crank mechanisms are all manually operated, no gas springs Radiolucent table top with integrated standard size x-ray cassette channels All sections fit with a mattress, detachable for easy cleaning Mattresses have welded seams, core and surface are joined Table adjustable to all essential positions Height adjustable with foot-pedal via hydraulic lever system Factory filled with hydraulic oil Three areas adjustable via manual crank: back, pelvic and legs Backrest adjustable 0 to +60 degree Trendelenburg and reverse Trendelenburg: +/- 25 degree Lateral tilting, both sides: +/- 20 degree Leg area removable, consists of 2 independent sections, each adjustable to a combination of up/down and left/right Head area removable, and independently adjustable, +20 to -90 degree Accessories on both sides clamp on standard stainless steel medical rail When elevated and fully extended, all sections align to perfectly flat surface Materials: High resistance to corrosion (tropical environment) Frame: Austenitic stainless steel 18/10 Table top: radiolucent epoxy resin Sliders/fixtures rail for accessories: Austenitic stainless steel 18/10 Mattress: welded seams rubber, highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable Caster frame/bracket: steel Caster wheel: single wheel, solid, non-hooded (for easy maintenance) Dimensions: Operating table, all areas extended: 210 x 50 x 70 to 100 cm (l x w x h) Height adjustment: 70 to 100 cm (h) Height adjustable feet, footprint: 6 cm (diameter) Mattress: 5 cm (h) Carrying capacity: 150kg Construction: Knockdown construction: no Supplied with: 1 x complete set of tools required for assembly 4 x spare fixation clamps</p>

			<p>1 x set fitting mattresses 1 x spray bottle of silicon (for mattress maintenance) Set of accessories, each with fixation clamp: 1 x anaesthesia screen arc 2 x lateral support, height adjustable only 2 x shoulder support, height and width adjustable 2 x leg support 2 x arm board, with arm fixation strap, vertical and horizontal adjustable 2 x padded knee support, lithotomy crutch, with fixation strap 1 x body strap</p>
25	Lab Water-Bath	20	<p>Laboratory water bath with cover (lid), 15 liter inner tank, stainless steel with following features: Stabilizing temperature at 25, 37, 42 or 56°C. Temperature of bath must be maintained within a narrow range +0.1°C. Microprocessor PID-control, timer digital display, overtemperature Cut-out.</p>
26	Centrifuge	20	<p>Centrifuge, tabletop Electronic control panel max. speed 6,000 rpm, with RCF of 3461 Timer 1-99 min./continuous/short cycle mode (impulse key) with revolution indicator. With 8x15ml angle rotor for tubes 17x100 mm. Accessories: Adapter no. 1054, PP, 8/set @ EUR 92.5 for glass tubes 5 ml (12x75 mm) or vacutainer 13x75 mm with Hemogard cap or Greiner Vacuette 13x75 mm with cap</p>
27	Micro Centrifuge	20	<p>Micro centrifuge, tabletop, high-speed, up to 15,000 rpm with following specifications: Bench top microcentrifuge, with speed range 500-15000rpm, timer 0-99minutes + hold, 10 programme memory, 10 acceleration rates and 10 deceleration rates. With fixed angle rotor 24-place for 1.5/2ml microtubes (tube size max 11x50mm)</p>
28	Spectrophotometer	20	<p>Spectrophotometer, UV/Visible range 190-1000nm for basic applications Microprocessor – controlled UV/VIS spectrophotometer shall have single beam operation with automatic reference corrected measurements The unit shall feature a holographic grating monochromator with a range from 190-1000nm Optical Bandwidth: 4nm LCD display Keyboard controlled Modes - Absorbance, % Transmission of sample, Standard curve method, Coefficient method Wavelength accuracy shall approximately be with 1nm Program selectable photometer range should measure within a – 0.3 to 3.0A operating range Auto lamp and filter selection The spectrophotometer shall perform a self test and calibration. Power requirements 220VAC, 50/60Hz</p>
29	Laboratory light microscope	20	<p>Laboratory light Microscope, binocular type, with standard set. Microscope with frame-Binocular tube-Pair of eyepiece 10X (FN20) -Quadruple revolving nosepiece -Mechanical stage (right handle) -Abbe condenser</p>

			<p>-AS-Blue filter -30W illuminator-6V30W halogen bulb -Plan objectives 4X, 10X, 40X -Power cord -Dust cover No. 015</p>
30	O2 cylinders with regulators	100	<p>Standard Flow Rate: 40 l/min Maximum Flow Rate: 150 l/min Single Stage Pressure Regulator with Flowmeter 0-15 l/per min. Pre-Set Pressure Relief Valve, calibrated at 10 bar Vertical/Horizontal Positioning available 6cm long adaptor between flowmeter & regulator Tubing Nipple Every unit rigorously tested prior to dispatch Batch Number stamped on regulator for identification purposes Comply fully with the requirements of HTM 2022</p>
31	HB Meter	100	<p>Haemoglobin photometer handheld w/accessories</p> <p>General Description: Hemoglobinometer, portable, with printer Product description Hand-held device easy transportation and set-up. Provides direct absorbance reading of haemoglobin from inserted cuvette with whole blood. Measuring range, approx: 0-26 g/dL. Accuracy: Correlation with ICSH reference method (HiCN): 0.99 Wavelength: 506 nm (iso-bestic point) and 880 nm (turbidity compensation). Display informs: haemoglobin reading, reading errors, systems errors, battery status. Read-out in: g/dL. Interfaces: RS 232 or USB to printer or computer. Uses dedicated single-use micro-cuvette(closed system). Cuvette allows collecting blood from patient's skin by capillary action. Sample size in cuvette approx: 8 to 10 uL (capillary, venous or arterial whole blood). Automatic zero setting between measurements. Reading time, approx: 15 sec. Power supply: 110 to 220V, 50 and 60 Hz via universal adaptor or 4 AA / R6 1.5 V batteries. Suitable for use in tropical countries with temperature up to 40 degree celsius. Portable Factory calibrated and built-in self-test (when device is switched-on). Supplied as set containing: 1x Hand-held haemoglobin measuring device. 1 x Set of 200 micro-cuvette. 1 x Box of 200 safety lancets (sterile single-use, auto-disable, incision 2.2mm) 1 x Set of 5 cleaners. 1 x Set of 4 AA / R6 1.5 V batteries (separately packed). 1 x CD, user training and troubleshooting (English, French, Spanish). 1 x Storage and transportation box (hard-case)</p>

32	Ambu Bag, Neonate (Resuscitator, hand-operating, neonate, set)	100	<p>Product Description: Self-inflating ventilation bag used for manual ventilation assistance in preterm, newborn, small infant with a body weight between 0-7kg in case of respiratory distress or failure. Ventilation can be done with ambient air or with oxygen using one hand only performing regular inflations.</p> <p>All parts must be manufactured from high-strength, long-life materials and require no special maintenance or storage conditions.</p> <p>Resuscitator can be totally disassembled, easy to clean, disinfect and be autoclavable</p> <p>Material: Latex free - Compressible self-refilling ventilation bag: silicone rubber, - Non-rebreathing patient valve with pressure limiting valve: polycarbonate/ polysulfone/ silicone, - Inlet valve with nipple for O2 tubing: polycarbonate/ polysulfone/ silicone, - Masks: transparent silicone rubber.</p> <p>Self-inflating bag Compressible (one single flexible pouch) Pressure release valve set at 40mbar which can be blocked if higher pressures are indicated. Compressible self-refilling ventilation bag, capacity approx.: 200 - 250 ml Inlet valve with nipple for O2 tubing.</p> <p>Patient valves: With removal expiratory outlet. Non-rebreathing patient valve with pressure limiting valve, 40± 5 cmH2O patient connector outside/inside diameter (OD/ID): 22/15mm, One way with single valve leaflet.</p> <p>Supplied with:</p> <ul style="list-style-type: none"> - Non-rebreathing patient valve. - Compressible self-refilling ventilation bag, capacity approx.: 200 – 250 ml. - Inlet valve with nipple for O2 tubing. - Masks translucent, 3 different sizes: 1 mask, one piece, round shape type, size preterm, 1 mask, one piece, round shape type, size newborn, 1 mask, one piece, round shape type, size infant small, Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish).
33	Ambu Bag, Infant (Resuscitator, hand-operating, Infant/Child, set)	100	<p>Product Description: Self-inflating ventilation bag used for manual ventilation assistance in infant or child, with a body weight over 30 kg in case of respiratory distress or failure. Ventilation can be done with ambient air or with oxygen.</p>

			<p>All parts must be manufactured from high-strength, long-life materials and require no special maintenance or storage conditions.</p> <p>Resuscitator can be totally disassembled, easy to clean, disinfect and be autoclavable.</p> <p>Material:</p> <ul style="list-style-type: none"> - self-refilling ventilation bag: silicone rubber - Non-rebreathing patient valve: polycarbonate / translucent polysulfone - Masks: silicone rubber / translucent polysulfone. Hooks made of silicon rubber - Oxygen reservoir bag: translucent plastic - Airways Guedel: translucent plastic. <p>Self-inflating bag Compressible (one single flexible pouch) Pressure release valve set at 40mbar which can be blocked if higher pressures are indicated. Compressible self-refilling ventilation bag, capacity approx.: 500 ml Intake valve with nipple for O2 tubing.</p> <p>Patient valves: With removal expiratory outlet. Non-rebreathing patient valve with pressure limiting valve. One way with single valve leaflet.</p> <p>oxygen reservoir bag Oxygen reservoir bag, capacity approx.: 2000 - 2600ml.</p> <p>Supplied with:</p> <ul style="list-style-type: none"> - Non-rebreathing patient valve. - Compressible self-refilling ventilation bag, capacity approx.:1500 - 2000ml. - Intake valve with nipple for O2 tubing. - Oxygen reservoir bag, capacity approx.: 2000 - 2600ml. - Masks translucent, 3 different sizes: 1 mask, size adult small/teenager. 1 mask, size adult medium. 1 mask, size adult large. - Airways Guedel translucent, 3 different sizes: 1 airway Guedel, size 00 approximately 40mm. 1 airway Guedel, size 0 approximately 50mm. 1 airway Guedel, size 1 approximately 60mm. <p>Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish).</p>
33	Ambu Bag, Adult (Resuscitator, hand-operating, Adult, set)	100	<p>Product Description: Self-inflating ventilation bag used for manual ventilation assistance in patients with a body weight over 30 kg in case of respiratory distress or failure. Ventilation can be done with ambient air or with oxygen.</p> <p>All parts must be manufactured from high-strength, long-life materials and require no special maintenance or storage conditions.</p>

			<p>Resuscitator can be totally disassembled, easy to clean, disinfect and be autoclavable.</p> <p>Material:</p> <ul style="list-style-type: none"> - self-refilling ventilation bag: silicone rubber - Non-rebreathing patient valve: polycarbonate / translucent polysulfone - Masks: silicone rubber / translucent polysulfone. Hooks made of silicon rubber - Oxygen reservoir bag: translucent plastic - Airways Guedel: translucent plastic. <p>Self-inflating bag Compressible (one single flexible pouch) Pressure release valve set at 40mbar which can be blocked if higher pressures are indicated. Compressible self-refilling ventilation bag, capacity approx.: 1500 - 2000ml Intake valve with nipple for O2 tubing.</p> <p>Patient valves: With removal expiratory outlet. Non-rebreathing patient valve. One way with single valve leaflet.</p> <p>oxygen reservoir bag Oxygen reservoir bag, capacity approx.: 2000 - 2600ml.</p> <p>Supplied with:</p> <ul style="list-style-type: none"> - Non-rebreathing patient valve. - Compressible self-refilling ventilation bag, capacity approx.:1500 - 2000ml. - Intake valve with nipple for O2 tubing. - Oxygen reservoir bag, capacity approx.: 2000 - 2600ml. - Masks translucent, 3 different sizes: 1 mask, size adult small/teenager. 1 mask, size adult medium. 1 mask, size adult large. - Airways Guedel translucent, 3 different sizes: 1 airway Guedel, size 2 approximately 70mm. 1 airway Guedel, size 3 approximately 80mm. 1 airway Guedel, size 4 approximatey 90mm. - Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish). <p>Accessories/Spare parts/Consumables: Masks, airways</p>
34	Bed, hospital, standard with mattress	200	<p>Bed, hospital, standard, with mattress Specifications Standard hospital bed, 2 sections Mounted on 4 swivel castors, heavy duty, 2 with brake Transfer bars connect lower distal portions of the 2 foot-end and the 2 head-end legs, providing maximal structural strength Protective bumpers at all four corners</p>

			<p>Bed-ends, finished with panels Two section platform, epoxy-painted steel mesh with side supports to immobilize the mattress Mattress cover removable via side zipper Manually operated crank allows adjusting the backrest to 45 degree Crank-handle folds away underneath the bed Materials: High resistance to corrosion (tropical environment) Frame: epoxy coated tubular steel. Mattress: high-density polyurethane foam, density 27-33 kg/m3 Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant - and liquid proof, washable Caster frame/bracket: Steel or nylon Caster brake: total-lock type (wheel and rotational lock) Caster wheel: single wheel, mold-on type, non-hooded (for easy maintenance) Wheel bearing: sealed bearing in the swivel and the wheel Swivel is ball-bearing Dimensions: Sleeping surface: 180-220x81-99cm (l x w) Height of surface, without mattress, fixed: 45-55cm Mattress: 11-13cm (h) Bed frame: 4.5-55x2.7-3.3cm 1.8-2.2mm (thickness) Leg frame 2.7-3.3cmx1.8-2.2mm (thickness) Swivel castor wheels: 2.7-3.3x11-13 (w x diameter) 2 castors with brakes Carrying capacity: 135-165kg. Knockdown construction: yes</p> <p>Supplied with 1 x complete set of tools required for assembly 1 x fitting mattress with cover</p> <p>Detailed step-by-step instructions for assembly and safe use, text-free pictorial based (i.e. line-drawings only)</p> <p>Packaging, labelling, instructions: One (1) unit per box One (1) unit per box Identify Packaging Standards and provide Packaging Test Reports Dimensions: Unit Weight in Kg (including its packaging) Dimensions of box, length x width x height in cm Labelling: Compliance with EAN 128 bar code requirements</p>
35	Resuscitator, Neonate, hand-operating, set	50	<p>Self-inflating ventilation bag used for manual ventilation assistance in preterm, newborn, small infant with a body weight between 0-7kg in case of respiratory distress or failure. Ventilation can be done with ambient air or with oxygen using one hand only performing regular inflations.</p> <p>All parts must be manufactured from high-strength, long-life materials and require no special maintenance or storage conditions.</p> <p>Resuscitator can be totally disassembled, easy to clean, disinfect and be autoclavable</p>

Material: Latex free

- Compressible self-refilling ventilation bag: silicone rubber,
- Non-rebreathing patient valve with pressure limiting valve: polycarbonate/ polysulfone/ silicone,
- Inlet valve with nipple for O2 tubing: polycarbonate/ polysulfone/ silicone,
- Masks: transparent silicone rubber.

Self-inflating bag

Compressible (one single flexible pouch)

Pressure release valve set at 40mbar which can be blocked if higher pressures are indicated.

Compressible self-refilling ventilation bag, capacity approx.: 200 - 250 ml

Inlet valve with nipple for O2 tubing.

Patient valves:

With removal expiratory outlet.

Non-rebreathing patient valve with pressure limiting valve, 40± 5 cmH2O

patient connector outside/inside diameter (OD/ID):

22/15mm,

One way with single valve leaflet.

Supplied with:

- Non-rebreathing patient valve.
 - Compressible self-refilling ventilation bag, capacity approx.: 200 - 250 ml.
 - Inlet valve with nipple for O2 tubing.
 - Masks translucent, 3 different sizes:
 - 1 mask, one piece, round shape type, size preterm,
 - 1 mask, one piece, round shape type, size newborn,
 - 1 mask, one piece, round shape type, size infant small,
- Instructions for assembly, use and maintenance, and list of accessories and spare parts with product reference code, in 3 languages (English, French and Spanish).

Accessories/Spare parts/Consumables:

N/A

Instructions for use:

Basic hospital equipment for health structures and emergency situations in wards, emergency room, operating theater, delivery room, intensive care unit, ambulance, etc.

Resuscitator is used to ventilate patients: preterm, newborn, small infant (body weight 0-7 kg).

Resuscitator can be used to efficiently maintain ventilation, or as resuscitation in other critical situations.

Resuscitator should only be operated by a person who has received adequate training in resuscitation technique.

The resuscitator and the mask must be cleaned and disinfected after each use.

Recommendation: After dismantling and cleaning, the resuscitator must be reassembled and tested to make sure that it works

		<p>correctly. In view of its use, the item is considered an "emergency resuscitation item". This means that it must always be readily available and in a good working condition. It is recommended to follow the manufacturer's instructions manual.</p> <p>Packaging & Labelling: Unit presentation: 1 (one) Resuscitator in a plastic bag Symbols used according ISO 15223 CE mark and notified body number</p> <p>Regulation & conformity requirements CE mark conforming to Medical Device Directive (MDD) 93/42/EEC CE certificate (for class IIa, with Notified body number)</p> <p>Classification Class IIa (MDD 93/42/EEC)</p> <p>Safety & product Standards: Must comply with following standards ISO 5359:2008 Low-pressure hose assemblies for use with medical gases ISO 80369-1:2010 Small-bore connectors for liquids and gases in healthcare applications -- Part 1: General requirements ISO/CD 80369-2 Small bore connectors for liquids and gases in healthcare applications -- Part 2: Connectors for breathing systems and driving gases application ISO10651-4: 2002 Lung ventilators - Part 4: Particular requirements for operator-powered resuscitators.</p>
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Quotation Form

Name of Bidder: _____

Date of Bid: _____

Request for Quotation No: _____

Currency of Bid price: _____

Delivery time (weeks from receipt of order till dispatch): _____

Expiration of Validity of Quotation (The quotation shall be valid for a period of at least 3 months after the Closing date.): _____

Price Schedule:

Item No.	FOB/FCA price/unit specify port of shipment	Quantity	Transportation cost to port of Destination (specify mode of trp.)	Total DAP (Mas Freight International Warehouse)	Delivery schedule (months)

Vendor's Comments:

I hereby certify that this company, which I am duly authorized to sign for, accepts the terms and conditions of UNFPA and we will abide by this quotation until it expires.

Name and title

Date and Place



Product Item Overview Form

**Refer to Excel sheet attached to this ERFO documents.
Please fill in the excel sheet, sign and send back along with your Bid.**

Product's adherence with specifications

The product supplied from manufacturers (and suppliers, if different from manufacturer) shall conform with the UNFPA technical specifications or be similar. Bidders are to state clearly on the pre-determined Excel form whether each criteria of the technical specifications matches or not. A field for the Bidder's specifications is given where the bidder should clearly specify the detailed specifications of the items provided. It is essential that the full specifications are provided. The bidder **SHOULD NOT** copy and paste UNFPA's required specifications.

The certificates shall be supported with the following to ensure compliance with UNFPA specifications:

- Product technical datasheets with complete specifications of the item supplied,
- Catalogues and any other technical information, clear pictures
- Results of any testing carried out on these products; when applicable.
- Any other supporting documentation to ensure compliance of products specified with UNFPA specifications.

Changes from Specification

Wherever items offered are not in compliance with specifications indicated by UNFPA, or wherever alternatives are offered, it is the Bidders responsibility to provide the Bid full descriptive specification and documentation of such items. In such instances the item or items must be clearly marked as an alternate and not being in compliance with specifications.

Training, installation and technical support

Installation and configuration services, start-up services, training and technical support shall be included in the Bid offer.

A local representation in the country of destination shall be preferred in order to provide training, technical support, maintenance and warranty service. The vendor shall have certified personnel for technical support.

Equipment shall include all supporting materials such as manuals, installation drivers (CD ROM) and accessories for optimum performance.