

**REQUEST FOR EXPRESSION OF INTEREST FOR THE PROVISION OF MEDICAL EQUIPMENT AND MATERIALS  
FOR CLINICS FOR CAMPS**

**REFERENCE NO.: CPP-PROC-TZ-006-0206-39**

China Petroleum Pipeline Engineering Co., Ltd. (hereinafter abbreviated as CPP) as Pipeline, Feederline & Above Ground Installation Contractor for the East African Crude Oil Pipeline (EACOP) Project invites experienced and reputable Contractors to express their interest in supplying kinds of equipment/materials for EACOP Project.

The EACOP Project involves the development, construction, operation and maintenance of a crude oil export pipeline that originates in Kabaale, Uganda and delivers oil for marine export on the East African coast in the Tanga area in Tanzania.

**BRIEF DESCRIPTION OF THE SCOPE:**

♦ **Supply of MEDICAL EQUIPMENT AND MATERIALS FOR CLINICS for Camps.**

**MINIMUM REQUIREMENTS:**

Companies expressing their interest are invited to document their request with:

- 1. Proof of License/Registration Information and Profile of Supplier, including license and TIN certificate.**

- 2. Proof of registration/application to Local Supplier Service Provider (LSSP) database at the time of submission of the response to this expression of interest is strongly recommended.**
- 3. Fully filled Questionnaire, Key personnel list with CV(Appendix1)and Equipment list of production and inspection(Appendix2) in requested format. (Blank regards as unqualified item.)**
- 4. Similar supplying experience within last three years(Appendix3) in requested format.**
- 5. Compliance with Petroleum (Local Content) Regulations, 2017 and Local company definition for Tanzania.**
- 6. Copy of certificates of ISO 9001, ISO 45001, ISO 14001 or equivalent of them.**
- 7. Tax Clearance Certificate for the last three years and Audit report for the last three years.**
- 8. The supplier must provide Manufacturer's Commitment Letter /Manufacturer's authorization.**
- 9. Technical requirements shall meet NO.39-MEDICAL EQUIPMENT AND MATERIALS FOR CLINICS for Camps.**

Interested companies which meet the minimum requirements and have the capacity to provide the WORK (GOODS/SERVICES) listed above should express their interest by sending together with the above listed documents an email to [supplierdata1@cpptz.com](mailto:supplierdata1@cpptz.com) (Max. Email Size: 20 MBs, Wettransfer link is available for huge size documents. & All documents must be submitted in the English language) on or before **24:00** hours East African Time (EAT), on **DATE(6/2/2023)**. Subject of the email should be **"EOI for CPP-PROC-TZ-006-0206-39-COMPANY NAME"**. CPP reserves the right not to consider companies that submit an incorrect email subject and the incorrect format of Questionnaire, Appendix 1, 2 and 3.

The format of the required documents and relevant technical requirements(NO.39-MEDICAL EQUIPMENT AND MATERIALS FOR CLINICS for Camps) which are mentioned in Minimum Requirements should be downloaded from EACOP's website (<https://eacop.com/opportunities-by-main-construction-contractors/china-petroleum-pipeline-engineering-co-ltd/>).

Companies satisfactorily meeting the above minimum requirements will receive, subject to the signature of a Non-Disclosure Agreement (NDA), a detailed pre-qualification questionnaire for further evaluation by Company.

**CPP reserves the right not to consider companies that submit an incomplete dossier.**

**Note 1:** Only pre-qualified companies will receive an invitation to submit their bid in furtherance of the Call for Tender process.

## Questionnaire for the Pre-qualification of Procurement-CAMP

**NOTE: Please provide documents named by serial number according to each item.**

**CPP reserves the right not to consider companies that submit Questionnaire filled by hand.**

Item No.	Category / Question	
<b>0</b>	<b>*NC/LC REQUIREMENTS</b>	
0.1	General Requirements	
0.1.1	Is the Applicant fully aware of the local climatic and working conditions of country and the local applicable laws to carry out the project? (Yes or No)	
0.1.2	Applicant to confirm that the full Scope of the Project can be performed. (Yes or No)	
0.2	National Content Requirements for Uganda (Applicable for Uganda)	
0.2.1	Proof of business registration and business license for Uganda.	
0.2.2	Proof of registration with the PAU National Supplier Database (NSD) for Uganda.	
0.2.3	Compliance with the Petroleum Midstream National Content Regulation # 34,2016 for Uganda.	
0.3	Local Content Requirements for Tanzania (Applicable for Tanzania)	
0.3.1	Proof of business registration and business license for Tanzania.	
0.3.2	Proof of registration/application to EWURA Local Supplier Service Provider (LSSP) database.	
0.3.3	Compliance with Petroleum (Local Content) Regulations, 2017 and Local content requirements for Tanzania.	
<b>1</b>	<b>GENERAL INFORMATION</b>	
1.1	Company Data	
1.1.1	Name of Applicant	
1.1.2	Introduction of Applicant (establishing time,Copies of government issued IDs for all shareholders,main business scope,etc.)	
1.1.3	Applicant address	
1.1.4	Applicant phone number	
1.1.5	Applicant email address	
1.1.6	Applicant Website	
1.1.7	* Manufacturer's Commitment Letter/Manufacturer's authorization(Not applicable to Bulk Materials trader)	

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Item No.	Category / Question	
1.2	Authorized contact person and contact details	
1.2.1	Name of authorized contact person	
1.2.2	Contact person's business address - phone number	
1.2.3	Contact person's business address - mobile phone number	
1.2.4	Contact person's business address - email address	
1.3	Organization Chart	
1.3.1	Applicant is requested to attach its organization chart.	
1.4	Language	
1.4.1	English shall be used as the Project language for all documents and correspondence - applicant to confirm	
<b>2</b>	<b>FINANCIAL ASPECTS</b>	
2.1	Bank information	
2.1.1	Name of Applicant's principal bank	
2.1.2	Address of Applicant's principal bank - street and number	
2.1.3	Address of Applicant's principal bank - post code and city	
2.1.4	Address of Applicant's principal bank - country (and state)	
2.2	*Registration with the Tax Revenue Authority	
2.2.1	Registration with the Uganda Tax Revenue Authority, including TIN Certificate.(Applicable for Uganda)	
2.2.2	Registration with the Tanzania Tax Revenue Authority, including TIN Certificate.(Applicable for Tanzania)	
2.3	*Proof of Tax Clearance Certificate	
2.3.1	Proof of Uganda Tax Clearance Certificate for the latest 3 years available.(Applicable for Uganda)	
2.3.2	Proof of Tanzania Tax Clearance Certificate for the latest 3 years available. (Applicable for Tanzania)	
2.4	Audited financial statements	

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Item No.	Category / Question	
2.4.1	Applicant 's financial performance documents, Audited Balance sheets and Profit and Loss statements, Auditors Report and Notes to Accounts etc. for last 3 (three) years. Latest financial statement should not be older than 18 months on the date of submission of response to this Expression of Interest.	
<b>3</b>	<b>LITIGATION HISTORY, RISK ASSESSMENT AND ELIGIBILITY</b>	
3.1	Litigation or arbitration history	
3.1.1	Provide information on any history of litigation or arbitration resulting from orders executed in the last (5) years or currently under execution, especially with CPP. (Yes or No)	
3.2	Eligibility	
3.2.1	Does Applicant appear on World Bank's common List of Ineligible Entities available under the following link <a href="http://www.worldbank.org/debarr">http://www.worldbank.org/debarr</a> or is Applicant subject to any sanction from World Bank and from UN? This must be similarly affirmed if the Applicant is an Affiliate or otherwise directly or indirectly controlled by such an ineligible entity. (Yes or No)	
<b>4</b>	<b>QA/QC, HSE, CERTIFICATES, KEY PERSONNEL</b>	
4.1	Please provide Applicant's ISO 9001:2015 Certificate.	
4.2	Please provide Applicant's ISO 45001:2018 Certificate (or equivalent).	
4.3	Please provide Applicant's ISO 14001:2015 Certificate (or equivalent).	
4.4	Please provide QA/QC manuals.	
4.5	Any other technical Certificates (API, etc.).	
4.6	Please provide key personnel list, Format refer to Appendix 1.	
4.6.1	Please provide QA Manager's CV (Applicable to manufacturers only)	
4.6.2	Please provide QC Inspector's CV (Applicable to manufacturers only)	
4.6.3	Please provide Production Manager's CV (Applicable to manufacturers only)	
<b>5</b>	<b>FABRICATION AND DESIGN</b>	

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**NOTE: Please provide documents named by serial number according to each item.**

**CPP reserves the right not to consider companies that submit Questionnaire filled by hand.**

Item No.	Category / Question	
5.1	Please give details of your manufacturing and design/engineering facilities (size, area, number, etc.). (Applicable to manufacturers only)	
5.2	Do you have in house design facilities? (Applicable to manufacturers only, Yes or No)	
5.3	Please provide details of the assembly yard/facilities you would use for the various parts of the project. (Applicable to manufacturers only)	
5.4	Please provide the equipment list of production and inspection, Format refer to Appendix 2.	
5.5	*Technical requirements shall meet our relevant technical requirements documents attached. (Yes or No)	
<b>6</b>	<b>PROJECT SPECIFIC OUTPUT, CAPACITY, ABILITY</b>	
6.1	Please specify estimated average capacity per month for manufacturing and delivery of the product.	
6.2	What is the available capacity (i.e. not yet booked) of the Applicant for the product in Year 2023?	
6.3	According to your present workload what is the approximate time period (in weeks) for the first dispatch after purchase order award (on EXW basis)?	
<b>7</b>	<b>EXPERIENCE RECORD AND REFERENCES</b>	
7.1	Please provide similar experience within last three years, Format refer to Appendix 3.	
7.2	Please provide scanned CONTRACT for completed project or LETTER of AWARD for ongoing projects, completion certificate (if any), appreciation letters (if any) etc.	
7.3	Please confirm whether there have been any product quality incidents in the past 5 years (Yes or No) .	
<b>8</b>	<b>SPARE PARTS AND MAINTENANCE</b>	
8.1	Supply list of recommend spare part for the product (If Applicable) .	
<b>9</b>	<b>DIVERSE DATA</b>	
9.1	Please confirm that you will provide on-site Services such as provision of re-assembly, supervision of site acceptance, assistance during quality warranty period. (If Applicable, Yes or No)  Please confirm that you will provide on-site Services, including installation, power on and coordinate with local government departments etc. (Only applicable to transformer suppliers. Yes or No)	









序号	资源类别	章节号/页码	业主要求原文
2			<b>Provision and servicing of medical devices/equipment at the clinic</b>
3	实验室诊断服务	4. Laboratory Diagnostics Service	<p>CONTRACTOR shall be responsible for provision of laboratory diagnostic services.</p> <p>CONTRACTOR undertakes to carry out the service as herein after described in the scope of services.</p> <p>CONTRACTOR shall:</p>
4			<p>Set up and run diagnostic laboratory services – providing the following tests:</p> <p>i. Hematology: Full hemogram, HB Level, Reticulocytes, Blood grouping,</p> <p>ii. Chemistry: including glucose, cholesterol, BUN, creatinine, potassium, liver and heart enzymes, thyroid tests, and hormone tests,</p> <p>iii. Microbiology,</p> <p>iv. Urine: Urinalysis, Urine culture,</p> <p>v. Stool analysis: H. pylori Antigen, Salmonella Antigen, Fecal Occult blood, Stool culture,</p> <p>vi. Drug Toxicology, including breath analyser for alcohol levels,</p> <p>vii. Coagulation studies: INR, APTT, D. dimer,</p> <p>viii. Thyroid function : TSH, T3, T4,</p> <p>ix. Pancreas: Amylase, Lipase,</p> <p>x. Serology: Hepatitis A Igm, Hepatitis B Ag, HCV, HIV, COVID-19, VDRL</p>
5			<ul style="list-style-type: none"> <li>• Provide rapid test for malaria, flu, HIV, COVID,</li> <li>• Provide BHCG and urine pregnancy test (where applicable),</li> <li>• Establish capacity to support community testing services on SITE,</li> <li>• Provide home-based care testing services for staff,</li> <li>• Provide testing services for travelling staff (departure and return),</li> <li>• Maintain a digital results data base for all tests done in a health information system.</li> </ul>

7	诊所设备	Appendix-1/Page-9	Electric torch, reflex hammer, otoscope, stethoscope, ophthalmoscope
8			Electronic thermometer,
9			Heavy-duty round-tipped scissors for cutting clothes and dressings.
10			Two minor surgery kits, each containing : <ul style="list-style-type: none"> <li>o Two straight Halstead forceps, 15 cm long,</li> <li>o Three curved Halstead forceps (2 x 13 cm + 1 x 15 cm),</li> <li>o Two Kocher forceps,</li> <li>o Two Leriche forceps,</li> <li>o Two Kelly forceps,</li> <li>o One needle holder (maximum 18 cm),</li> <li>o One pair of straight scissors,</li> <li>o One pair of curved scissors,</li> <li>o Two scalpel handles of two different sizes,</li> <li>o Two small Farabeuf retractors,</li> <li>o One dressing forceps without hooks, and one dressing forceps with hook,</li> <li>o One fluted probe,</li> </ul>
11			An ENT kit : <ul style="list-style-type: none"> <li>o Nasal speculum,</li> <li>o Magnifier,</li> <li>o Hartmann foreign body forceps,</li> <li>o Troeltch bent forceps,</li> <li>o Michel probe,</li> <li>o One pair of MAYO scissors,</li> <li>o One dressing forceps without hooks,</li> <li>o One Kocher forceps (20 cm),</li> </ul>

12			<p>An ophthalmic kit :</p> <ul style="list-style-type: none"> <li>o Corneal foreign body needle,</li> <li>o Battery drill for Corneal FB,</li> <li>o Three instrument trays,</li> <li>o Woolen blankets, cotton sheets,</li> <li>o Urine basin,</li> <li>o Electric saw for plaster or resin,</li> <li>o Hemostatic tourniquet, several tourniquets for perfusion fitting (elastic or rubber)</li> </ul>
13		Appendix-1/Page-10	<p>General batch</p> <ul style="list-style-type: none"> <li>- URGO-type simple adhesive bandages,</li> <li>- Gauze compresses, non-sterile,</li> <li>- Gauze compresses, sterile (two sizes),</li> <li>- Sterile drapes, fenestrated and non-fenestrated,</li> <li>- Transparent self-adhesive bandages for fixing drips, OPSITE-type,</li> <li>- Large adhesive dressing, HYPAFIX-type,</li> <li>- Thick absorbent dressings,</li> <li>- Adhesive tapes (fabric and plastic),</li> <li>- Aluminum-foam splints (2 cm, 3 cm, 5 cm and 10 cm); frog finger splints (various sizes),</li> <li>- Adhesive elastic setting strips, ELASTOPLAST-type (5 cm, 10 cm),</li> <li>- Crepe bandages (7 cm, 10 cm, 20 cm),</li> <li>- Elastic bandages,</li> <li>- Disposable paper sheets,</li> <li>- Paper rolls for examination table,</li> <li>- Short venous catheters (24, 22, 20, 18, 16, 14 G),</li> <li>- Micro-infusers (5/10, 7/10),</li> <li>- Single-use syringes (2 cc, 5 cc, 10 cc, 20 cc),</li> <li>- 50 cc Luer-lock syringes for electric syringe driver, and other feeding syringes,</li> <li>- Insulin syringes,</li> <li>- IM, IV, S/C needles and trocars,</li> </ul>

14		Appendix-1/Page-11	<p>Secure containers for needles,</p> <ul style="list-style-type: none"> <li>- Scalpel blades of sizes matching the handles (see above),</li> <li>- Single-use scalpels,</li> <li>- Perfusion kits (perfusion tubing) with 3-way valves, or simple perfusion kits with 3-way valves,</li> <li>- Catheter extensions with 3-way valves,</li> <li>- Extensions for electric syringe driver, Luer-lock male-female,</li> <li>- HEMO-SET blood transfusion kit (for transfusion),</li> <li>- Filters for transfusion,</li> <li>- Rapid-flow blood transfusion kit, BLOOD PUMP-type,</li> <li>- Drip acceleration system,</li> <li>- Long venous catheter, SELDIFLEX-type (1.3, 1.7 and 2 mm),</li> <li>- CVP measurement kits,</li> <li>- Nasal probes for oxygen therapy (8 to 16 CH),</li> <li>- Oxygen therapy masks, three different models: simple, with nebulizer and high- concentration,</li> <li>- GUEDEL-type oropharyngeal tubes (four adult sizes, two child sizes),</li> <li>- Oropharyngeal suction tubes,</li> <li>- Tracheobronchial suction probes (4 to 21 CH),</li> <li>- Oxygen flexible pipes for mask or nasal probe,</li> <li>- Biconic connectors for oxygen pipes,</li> <li>- Endotracheal intubation probes with low-pressure cuff (3 to 8.5), and intubation probe without cuff (2; 2.5 and 3 mm),</li> <li>- Links or mounting collars for intubation probes,</li> <li>- QUICKTRACK-type coniotomy kit (one adult size, one child size),</li> <li>- Bacterial and viral filters, heat and moisture exchanger for artificial ventilation,</li> <li>- ETPD-type pressure dressings</li> </ul>
15		Appendix-1/Page-12	<p>Standard and/or water-repellent stockinette, diameter 7, 10, 15 and 20 cm,</p> <ul style="list-style-type: none"> <li>- Kidney-shaped cardboard basins,</li> <li>- METALLINE-type aluminum blankets,</li> </ul>

16		Appendix-1/Page-12	Urinary probe kit - Cystic probes, round and beaked ends (8 to 18 CH), - Urine collection pouch, - Lubricant - syringe - distilled water ampoule, - Sterile drape (disposable): one non-fenestrated, one fenestrated.
17		Appendix-1/Page-12	Kit for pleural drainage - PLEUROCATH-type drains (four models), - JOLY-type chest drains (10 to 32 CH), - Biconic connectors, - HEIMLICH-MARTINEZ check valve, - Kocher forceps, disposable scalpel, suturing thread (silk 2/0), needle holder, dressing forceps with hook, - Urine pouch, - Optional: drainage bag.
18		Appendix-1/Page-12	Burns kit - Sterile sheets, - Sterile drapes, - Sterile clothing (coveralls, caps, masks, and gloves), - METALLINE-type aluminum blankets, - Water-gel type coated dressings: a complete set (upper limb, lower limb and full body sheet).

19		Appendix-1/Page-12	<p>Kit for central perfusions using the SELDINGER method (ready for use)</p> <p>For a double-lumen catheter (e.g. MULTI Cath VYGON ref. 1206.30) the kit contains:</p> <ul style="list-style-type: none"> <li>- Needles,</li> <li>- Short catheter,</li> <li>- "J" guide,</li> <li>- Dilator,</li> <li>- Two hypodermic needles,</li> <li>- A syringe,</li> <li>- Two 3-way valves,</li> <li>- A scalpel,</li> <li>- Two clamps,</li> <li>- Two membrane stoppers,</li> <li>- A mounting tab</li> </ul>
<b>二、业主招标文标准规范件GS_EP_MED_060-Onsite medical structures_EN 提到标准内容如下</b>			
22	家具类别	PAGE-28	<p>Reception point</p> <ul style="list-style-type: none"> <li>• A desk</li> <li>• A swivel chair</li> <li>• A storage unit for administrative logs and documents.</li> </ul>
23			<p>Waiting room</p> <p>Six seats (chairs or armchairs) per consultation position</p>

24			<p>Consultation room</p> <ul style="list-style-type: none"> <li>• Office: <ul style="list-style-type: none"> <li>- A piece of transmission equipment with its ancillaries (telephone socket, computer network, and if applicable, a VHF radio, sometimes requiring an external antenna)</li> <li>- A desk +/- a unit suitable for computer hardware</li> <li>- An office table</li> <li>- A swivel chair with adjustable base</li> <li>- Two visitor armchairs</li> <li>- A cabinet</li> <li>- A desk lamp</li> <li>- A bookcase</li> <li>- A coat rack</li> <li>- A wastepaper basket.</li> </ul> </li> </ul>
25			<p>Examination room:</p> <ul style="list-style-type: none"> <li>- A chair, a height adjustable stool</li> <li>- A tilt table (1.80 m x 0.60 m)</li> <li>- A step stool, a height adjustable stool</li> <li>- An instrument trolley</li> <li>- A cabinet for surgical equipment and medication</li> <li>- A light box, weighing scales and height gauge</li> <li>- A wheel-mounted drip stand</li> <li>- A small-capacity refrigerator</li> <li>- A paper- and soap-dispenser near the washbasin</li> <li>- A small wheel-mounted scialytic lamp</li> <li>- A foot-pedal trash can suitable for medical waste bags.</li> </ul>

26			<p>Treatment room</p> <ul style="list-style-type: none"> <li>• Near every washbasin or sink, a paper dispenser for hand drying and a foot-pedal trash can.</li> <li>• Tall shelves or units with sliding doors or drawers, no more than 2 m in height.</li> <li>• A cabinet for surgical equipment, low cupboards or caster-mounted units with drawers.</li> <li>• For the secretariat: <ul style="list-style-type: none"> <li>- A table or desk with lamp</li> <li>- Chairs</li> <li>- A computer stand.</li> </ul> </li> <li>• For every treatment cell: <ul style="list-style-type: none"> <li>- An examination table</li> <li>- A step stool</li> <li>- A trolley for instruments and dressings</li> <li>- A height adjustable stool</li> <li>- A wheel-mounted scialytic lamp</li> <li>- A small wheel-mounted table that can be used to support an upper limb.</li> </ul> </li> <li>• A surgical-instrument sterilizer.</li> <li>• A foot-pedal trash can suitable for medical waste bags.</li> </ul>
27			<p>Medical equipment storage room</p> <ul style="list-style-type: none"> <li>• A refrigerator</li> <li>• Shelves with sliding doors for wall-mounted units, at a height of no more than 2 m</li> <li>• At least one wheelchair</li> <li>• Several pairs of forearm crutches</li> <li>• Fabric stretchers (if there is another room for emergency equipment storage, the stretchers are more likely in the latter)</li> <li>• Drip stands.</li> </ul>



28			<p>Emergency room</p> <ul style="list-style-type: none"><li>• Furniture:<ul style="list-style-type: none"><li>- A refrigerator (ice cube maker)</li><li>- A chair</li><li>- A small worktop for the monitoring sheet</li><li>- Glazed cases or drawer units for storing resuscitation equipment, consumables and injectable medication</li><li>- Two operation-room-type trash cans.</li></ul></li><li>• Examination and treatment equipment:<ul style="list-style-type: none"><li>- One or two wheeled gurneys for patients (emergency treatment stretcher), with adjustable height and adjustable back part</li><li>- A height adjustable caster-mounted operator stool</li><li>- A trolley for instruments, consumables and dressings</li><li>- Two wheel-mounted drip stands per bed</li><li>- A wheel-mounted scialytic lamp</li><li>- A foot-pedal trash can suitable for medical waste bags.</li></ul></li></ul>
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29			<p>Resuscitation equipment:</p> <ul style="list-style-type: none"> <li>- An Ambu manual resuscitator (Bag Valve Mask) with an oxygen enriching tank, and its set of different sized masks <ul style="list-style-type: none"> <li>- A Combitube</li> </ul> </li> <li>- A complete kit for endotracheal intubation: laryngoscope with set of blades (sizes 1, 2, 3 and 4, preferably single-use), Magill forceps, probe mounting device, deformable mandril, Xylocaine sprayer, 10 cc syringe, Guedel tubes of three different sizes <ul style="list-style-type: none"> <li>- A peak flowmeter</li> </ul> </li> <li>- One mechanical ventilator per bed, either a volumetric type, driven by oxygen pressure, or a transport respirator type. The pipes out to the patient must be preferably single-use <ul style="list-style-type: none"> <li>- A Boussignac CPAP kit</li> </ul> </li> <li>- An electrical mucus-suction device (may be shared between two beds)</li> <li>- One multi-parameter monitor per bed. The latter shall enable simultaneous monitoring of at least the ECG, blood pressure and pulse oximetry. It can also offer the following functions: <ul style="list-style-type: none"> <li>. External overdrive</li> <li>. Manual defibrillation</li> <li>. Capnography.</li> </ul> </li> </ul> <p>If this is not the case, these three functions shall be provided by independent apparatus, which may be shared between two beds.</p> <ul style="list-style-type: none"> <li>- Two one-piece electrical syringe drivers per bed.</li> </ul>
31			<p>Diagnosis equipment:</p> <ul style="list-style-type: none"> <li>- A 3-track electrocardiograph</li> <li>- One wall-mounted sphygmomanometer per bed</li> <li>- A head lamp</li> <li>- A Glucometer-type blood glucose analyzer</li> <li>- A HemoCue-type hematocrit measuring device.</li> </ul>

32			<p>Medical equipment storage room</p> <ul style="list-style-type: none"> <li>• Wide shelves which can hold bulky equipment</li> <li>• At least one fully-equipped modular emergency crash bag for preparing a patient anywhere on site <ul style="list-style-type: none"> <li>• A portable semi-automatic defibrillator <ul style="list-style-type: none"> <li>• Anti-shock trousers</li> </ul> </li> </ul> </li> <li>• Battery chargers for emergency room apparatus, and spare batteries <ul style="list-style-type: none"> <li>• A battery-operated electrical mucus suction device</li> </ul> </li> <li>• An additional mechanical ventilator, if the emergency room only has one</li> <li>• Flexible oxygen pipes, fitted with high-pressure connectors</li> <li>• A cardiac massage board, an aluminum scoop stretcher, two vacuum mattresses, and several fabric stretchers <ul style="list-style-type: none"> <li>• Depending on the context, a Ferno basket stretcher</li> </ul> </li> <li>• Immobilization equipment: upper- and lower-limb splints (Aluform or vacuum), rigid and semi-rigid cervical collars – four sizes for adults and two sizes for children– and triangular slings <ul style="list-style-type: none"> <li>• A Donway femoral traction splint</li> </ul> </li> <li>• Portable oxygen cylinders with expansion valves, and two outlets: a high-pressure outlet for the respirator, and a low-pressure outlet for managing oxygen inhalation. Only one or two oxygen cylinders must be stored in this room, for rapid availability. The other cylinders shall be installed outside in a ventilated technical room (see section 4.1.6.2).</li> </ul>
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34	实验室设备	(文件-MED_060_EN) Page-32	<p>Equipment:</p> <ul style="list-style-type: none"> <li>- A refrigerator with a freezer compartment.</li> <li>- A hematology apparatus performing the following analyses: hematocrit, hemoglobin, white blood cells count, granulocytes count and monocytes count, and platelet count.</li> <li>- A cardiac marker assay system: myoglobin, CK-MB, troponin.</li> <li>- A chemical apparatus for testing hepatic function (transaminases, GGT, bilirubin, alkaline phosphatase), renal function (creatinine, urea, potassium), pancreatic function (amylase, lipase), lipid assays (cholesterol, HDL cholesterol, triglycerids), as well as blood glucose and uric acid assays.</li> <li>- A serological test for detecting plasmodia, particularly plasmodium falciparum.</li> <li>- A test for detecting antibody HIV-1/2.</li> <li>- A test for detecting Group A <math>\beta</math>-hemolytic streptococcus from a throat swab.</li> <li>- A test for screening drugs and toxins in urine.</li> <li>- Optional: a BNP and D-dimers assay system.</li> <li>-Urine multi-testing: Sugar, Ac, Prot, Leuk, Sg, Nitrites.</li> <li>- Urine culture and Kass count.</li> <li>- Blades and stains for MGG or RAL 555, Gram staining, a Malassez-type cell.</li> <li>- Sampling, culturing and identification equipment (hemocultures, API and identification manual, Petri dishes with agar, etc.).</li> <li>- Two small-capacity ovens.</li> <li>- Two good-quality binocular optical microscopes with X10, X50, X100 cartridge immersion lenses, backlit.</li> <li>- Water quality test kit: chemical and bacteriological.</li> </ul>
35			<ul style="list-style-type: none"> <li>- Blood gas assay machine, if not available in the emergency room.</li> <li>- Beakers, calibrated pipettes, broth bags, two Bunsen burners, plates, and test tubes.</li> <li>- Still for distilled water, buffer solution, etc.</li> </ul>

36	其他屋内家具设施		Furniture: - A table. - A chair. - A swivel stool. - Shelves. - A cabinet.
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