
PROCUREMENT DOCUMENTS

**Bidding Document for
Procurement of Goods**

Procurement of:

**Medical and Diagnostic equipment and
Medical Furniture for" Center of
Hematology named after R.H. Yeolyan"
CJSC,
Comprising of 4 lots:**

*Lot 1- Supply and Installation of Diagnostic and Imaging equipment for
"Center of Hematology named after R.H. Yeolyan" CJSC*

*Lot 2- Supply and Installation of Medical Laboratory equipment for
"Center of Hematology named after R.H. Yeolyan" CJSC*

*Lot 3 - Supply and Installation of Surgery and Hospital equipment for
"Center of Hematology named after R.H. Yeolyan" CJSC*

*Lot 4 -Supply and Installation of Medical Furniture for "Center of
Hematology named after R.H. Yeolyan" CJSC*

ICB No: CR4/ICB/B-G/012-15

Project: *Disease Prevention and Control
Project, Credit No. 5222 AM*

Purchaser: *"Health projects implementation unit" SA*

Country: *Republic of Armenia*

Issued on: *12 October, 2015*

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PART 1 – Bidding Procedures

Section I. Instructions to Bidders

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Section I. Instructions to Bidders

A. General

1. **Scope of Bid**
 - 1.1 In connection with the Invitation for Bids, **specified in the Bid Data Sheet (BDS)**, the Purchaser, **as specified in the BDS**, issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this International Competitive Bidding (ICB) procurement are **specified in the BDS**.
 - 1.2 Throughout these Bidding Documents:
 - (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt;
 - (b) if the context so requires, “singular” means “plural” and vice versa; and
 - (c) “day” means calendar day.
2. **Source of Funds**
 - 2.1 The Borrower or Recipient (hereinafter called “Borrower”) **specified in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount **specified in BDS**, toward the project named **in BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.
 - 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan (or other financing) account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).
3. **Corrupt and Fraudulent Practices**
 - 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.

- 3.2 In further pursuance of this policy, Bidders shall permit and shall cause its agents (where declared or not), sub-contractors, sub-consultants, service providers or suppliers and to permit the Bank to inspect all accounts, records and other documents relating to the submission of the application, bid submission (in case prequalified), and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, a government-owned entity—subject to ITB 4.5—or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution. **Unless specified in the BDS,** there is no limit on the number of members in a JV.
- 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
- (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
 - (e) participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which such Bidder is involved. However, this does not limit the inclusion of the same subcontractor in more than one bid; or
 - (f) any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the

works that are the subject of the bid; or

- (g) any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
 - (h) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - (i) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract
- 4.3 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.
- 4.4 A Bidder that has been sanctioned by the Bank in accordance with the above ITB 3.1, including in accordance with the Bank's Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants ("Anti-Corruption Guidelines"), shall be ineligible to be prequalified for, bid for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address **specified in the BDS.**

- 4.5 Bidders that are Government-owned enterprises or institutions in the Purchaser's Country may participate only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent agencies of the Purchaser. To be eligible, a government-owned enterprise or institution shall establish to the Bank's satisfaction, through all relevant documents, including its Charter and other information the Bank may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and, inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.
- 4.6 A Bidder shall not be under suspension from bidding by the Purchaser as the result of the operation of a Bid-Securing Declaration.
- 4.7 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
- 4.8 A Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

5. Eligible Goods and Related Services

- 5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.
- 5.3 The term "origin" means the country where the goods have been

mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Document

6. Sections of Bidding Document

- 6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries
- Section VI. Bank Policy-Corrupt and Fraudulent Practices

PART 2 Supply Requirements

- Section VII. Schedule of Requirements

PART 3 Contract

- Section VIII. General Conditions of Contract (GCC)
- Section IX. Special Conditions of Contract (SCC)
- Section X. Contract Forms

- 6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
- 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Bid meeting (if any), or Addenda to the Bidding Document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as is required by the Bidding Documents.

- 7. Clarification of Bidding Documents**
- 7.1 A Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address **specified in the BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids within a period **specified in the BDS**. The Purchaser shall forward copies of its response to all Bidders who have acquired the Bidding Documents in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so **specified in the BDS**, the Purchaser shall also promptly publish its response at the web page **identified in the BDS**. Should the clarification result in changes to the essential elements of the Bidding Documents, the Purchaser shall amend the Bidding Documents following the procedure under ITB 8 and ITB 22.2.
- 8. Amendment of Bidding Document**
- 8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addenda.
- 8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents from the Purchaser in accordance with ITB 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITB 7.1.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB 22.2.

C. Preparation of Bids

- 9. Cost of Bidding**
- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid**
- 10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the language **specified in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language **specified in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.

**11. Documents
Comprising the
Bid**

11.1 The Bid shall comprise the following:

- (a) Letter of Bid in accordance with ITB 12;
- (b) completed schedules, in accordance with ITB 12 and 14
- (c) Bid Security or Bid-Securing Declaration, in accordance with ITB 19.1;
- (d) alternative bids, if permissible, in accordance with ITB 13;
- (e) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;
- (f) documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the contract if its bid is accepted;
- (g) documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to bid;
- (h) documentary evidence in accordance with ITB 16, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
- (i) documentary evidence in accordance with ITB 16 and 30, that the Goods and Related Services conform to the Bidding Documents;
- (j) any other document **required in the BDS.**

11.2 In addition to the requirements under ITB 11.1, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.

11.3 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

**12. Letter of Bid
and Price
Schedules**

12.1. The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.2. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1. Unless otherwise **specified in the BDS**, alternative bids shall not

be considered.

14. Bid Prices and Discounts

- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.
- 14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.
- 14.3 The price to be quoted in the Letter of Bid in accordance with ITB 12.1 shall be the total price of the bid, excluding any discounts offered.
- 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid, in accordance with ITB 12.1.
- 14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, **unless otherwise specified in the BDSA** bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 29. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.
- 14.6 If so specified in ITB 1.1, bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise **specified in the BDS**, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4 provided the bids for all lots (contracts) are opened at the same time.
- 14.7 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, **as specified in the BDS**.
- 14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms

offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:

- (a) For Goods manufactured in the Purchaser's Country:
 - (i) the price of the Goods quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;
 - (ii) any Purchaser's Country sales tax and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and
 - (iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) **specified in theBDS.**
- (b) For Goods manufactured outside the Purchaser's Country, to be imported:
 - (i) the price of the Goods, quoted CIP named place of destination, in the Purchaser's Country, as **specified in theBDS;**
 - (ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) **specified in theBDS;**
- (c) For Goods manufactured outside the Purchaser's Country, already imported:
 - (i) the price of the Goods, including the original import value of the Goods; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported.
 - (ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported;

- (iii) the price of the Goods, obtained as the difference between (i) and (ii) above;
 - (iv) any Purchaser's Country sales and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and
 - (v) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) **specified in the BDS.**
- (d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
- (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

15. Currencies of Bid and Payment

- 15.1 The currency(ies) of the bid and the currency(ies) of payments shall be **as specified in the BDS.** The Bidder shall quote in the currency of the Purchaser's Country the portion of the bid price that corresponds to expenditures incurred in the currency of the Purchaser's country, unless otherwise **specified in the BDS.**
- 15.2 The Bidder may express the bid price in any currency. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three foreign currencies in addition to the currency of the Purchaser's Country.

16. Documents Establishing the Eligibility and Conformity of the Goods and Related Services

- 16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 16.2 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.
- 16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of

deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in theBDS** following commencement of the use of the goods by the Purchaser.

16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

**17. Documents
Establishing the
Eligibility and
Qualifications
of the Bidder**

17.1 To establish Bidder's their eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.

17.2 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:

- (a) that, if **required in theBDS**, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's Country;
- (b) that, if **required in theBDS**, in case of a Bidder not doing business within the Purchaser's Country, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

**18. Period of
Validity of Bids**

18.1. Bids shall remain valid for the period **specified in theBDS** after the bid submission deadline date prescribed by the Purchaser in

accordance with ITB22.1. A bid valid for a shorter period shall be rejected by the Purchaser as nonresponsive.

- 18.2. In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 19, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid, except as provided in ITB 18.3.
- 18.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be determined as follows:
 - (a) In the case of fixed price contracts, the Contract price shall be the bid price adjusted by the factor **specified in the BDS**.
 - (b) In the case of adjustable price contracts, no adjustment shall be made.
 - (c) In any case, bid evaluation shall be based on the bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

- 19.1. The Bidder shall furnish as part of its bid, either a Bid-Securing Declaration or a bid security, as **specified in the BDS**, in original form and, in the case of a bid security, in the amount and currency **specified in the BDS**.
- 19.2. A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.
- 19.3. If a bid security is specified pursuant to ITB 19.1, the bid security shall be a demand guarantee in any of the following forms at the Bidder's option :
 - (a) an unconditional guarantee issued by a bank or financial institution (such as an insurance, bonding or surety company);
 - (b) an irrevocable letter of credit;
 - (c) a cashier's or certified check; or
 - (d) another security **specified in the BDS**,

- from a reputable source from an eligible country. If the unconditional guarantee is issued by a financial institution located outside the Purchaser's Country, the issuing financial institution shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable. In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Purchaser prior to bid submission. The bid security shall be valid for twenty-eight (28) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2.
- 19.4. If a Bid Security is specified pursuant to ITB 19.1, any bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.5. If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB 42.
- 19.6. The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
- 19.7. The Bid Security may be forfeited or the Bid Securing Declaration executed:
- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid, or any extension thereto provided by the Bidder ; or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB41; or
 - (ii) furnish a performance security in accordance with ITB 42.
- 19.8. The bid security or Bid- Securing Declaration of a JV must be in the name of the JV that submits the bid. If the JV has not been legally constituted into a legally enforceable JV at the time of bidding, the bid security or Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2.
- 19.9. If a bid security is **not required in the BDS**, pursuant to ITB 19.1, and

- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid, or
- (b) if the successful Bidder fails to: sign the Contract in accordance with ITB41; or furnish a performance security in accordance with ITB 42;

the Borrower may, **if provided for in the BDS**, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB 11 and clearly mark it "ORIGINAL." Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE." In addition, the Bidder shall submit copies of the bid, in the number **specified in the BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation **as specified in the BDS** and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid where entries or amendments have been made shall be signed or initialed by the person signing the bid.
- 20.3 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 20.4 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.

D. Submission and Opening of Bids

21. Sealing and Marking of Bids

- 21.1. The Bidder shall enclose the original and all copies of the bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL", "ALTERNATIVE" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope.
- 21.2. The inner and outer envelopes shall:
 - (a) bear the name and address of the Bidder;

- (b) be addressed to the Purchaser in accordance with ITB 24.1;
- (c) bear the specific identification of this bidding process indicated in ITB1.1; and
- (d) bear a warning not to open before the time and date for bid opening.

21.3. If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.

22. Deadline for Submission of Bids

22.1. Bids must be received by the Purchaser at the address and no later than the date and time **specified in the BDS**. When **specified in the BDS**, bidders shall have the option of submitting their bids electronically. Bidders submitting bids electronically shall follow the electronic bid submission procedures **specified in the BDS**.

22.2. The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1. The Purchaser shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1. A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.2, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:

- (a) prepared and submitted in accordance with ITB 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and
- (b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB 22.

24.2. Bids requested to be withdrawn in accordance with ITB 24.1

shall be returned unopened to the Bidders.

- 24.3. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.

25. Bid Opening

- 25.1. Except as in the cases specified in ITB 23 and 24, the Purchaser shall publicly open and read out in accordance with ITB25.3 all bids received by the deadline at the date, time and places **specified in the BDS** in the presence of Bidders' designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as **specified in the BDS**.
- 25.2. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding bid will be opened. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only bids that are opened and read out at Bid opening shall be considered further.
- 25.3. All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Prices, per lot (contract) if applicable, including any discounts and alternative bids; the presence or absence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative bids read out at Bid opening shall be considered for evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Purchaser attending bid opening in the manner **specified in the BDS**. The Purchaser shall neither discuss

the merits of any bid nor reject any bid (except for late bids, in accordance with ITB 25.1).

- 25.4. The Purchaser shall prepare a record of the bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per lot (contract) if applicable, including any discounts, and alternative bids; and the presence or absence of a Bid Security, if one was required. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

E. Evaluation and Comparison of Bids

- 26. Confidentiality**
- 26.1 Information relating to the evaluation of bids and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with the bidding process until information on Contract Award is communication to all Bidders in accordance with ITB 40.
- 26.2 Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.

- 27. Clarification of Bids**
- 27.1 To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB 31.
- 27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.
- 28. Deviations, Reservations, and Omissions**
- 28.1 During the evaluation of bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents
- 29. Determination of Responsiveness**
- 29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB 11.
- 29.2 A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) if accepted, would
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the

Bidder's obligations under the Contract; or

- (b) if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

29.3 The Purchaser shall examine the technical aspects of the bid submitted in accordance with ITB 16 and ITB 17, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any material deviation or reservation, or omission.

29.4 If a bid is not substantially responsive to the requirements of Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30. Nonconformities, Errors and Omissions

30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the Bid.

30.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

30.3 Provided that a bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component.

31. Correction of Arithmetical Errors

31.1 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed

in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 31.1, shall result in the rejection of the Bid.

32. Conversion to Single Currency

32.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted in a single currency as **specified in theBDS**.

33. Margin of Preference

33.1 **Unless otherwise specified in theBDS**, a margin of preference shall not apply.

34. Evaluation of Bids

34.1 The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.

34.2 To evaluate a Bid, the Purchaser shall consider the following:

- (a) evaluation will be done for Items or Lots (contracts), as **specified in theBDS**; and the Bid Price as quoted in accordance with clause 14;
- (b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1;
- (c) price adjustment due to discounts offered in accordance with ITB 14.3;
- (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 32;
- (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3;
- (f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria;

34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

34.4 If these Bidding Documents allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Bid Form, is specified in Section III, Evaluation and Qualification Criteria

34.5 The Purchaser's evaluation of a bid will exclude and not take into account:

- (a) in the case of Goods manufactured in the Purchaser's Country, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
- (b) in the case of Goods manufactured outside the Purchaser's Country, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;
- (c) any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

34.6 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise **specified in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.2 (f).

35. Comparison of Bids

35.1 The Purchaser shall compare the evaluated prices of all substantially responsive bids established in accordance with ITB 34.2 to determine the lowest evaluated bid. The comparison shall be on the basis of CIP (place of final destination) prices for imported goods and EXW prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within the Borrower's country, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.

36. Qualification of the Bidder

36.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

36.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17.

36.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's qualifications to perform satisfactorily.

**37. Purchaser's
Right to Accept
Any Bid, and to
Reject Any or
All Bids**

37.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

F. Award of Contract

38. Award Criteria

38.1 Subject to ITB 37.1, the Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

**39. Purchaser's
Right to Vary
Quantities at
Time of Award**

39.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS**, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

**40. Notification of
Award**

40.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the supply of Goods (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). At the same time, the Purchaser shall also notify all other Bidders of the results of the bidding and shall publish in *UNDB online* the results identifying the bid and lot (contract) numbers and the following information:

- (i) name of each Bidder who submitted a Bid;
- (ii) bid prices as read out at Bid Opening;
- (iii) name and evaluated prices of each Bid that was evaluated;
- (iv) name of bidders whose bids were rejected and the reasons for

their rejection; and

- (v) name of the successful Bidder, and the Price it offered, as well as the duration and summary scope of the contract awarded.

40.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

40.3 The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after notification of award in accordance with ITB 40.1, requests in writing the grounds on which its bid was not selected.

41. Signing of Contract

41.1 Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.

41.2 Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

41.3 Notwithstanding ITB 41.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.

42. Performance Security

42.1 Within twenty eight (28) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, subject to ITB 34.5, using for that purpose the Performance Security Form included in Section X, Contract Forms, or another Form acceptable to the Purchaser. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Purchaser. A foreign institution providing a bond shall have a correspondent financial institution located in the Purchaser's Country.

42.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute

sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose bid is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section II. Bid Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	The reference number of the Invitation for Bids is: CR4/ICB/B-G/012-15
ITB 1.1	The Purchaser is: <i>“Health projects implementation unit” SA</i>
ITB 1.1	<p>The name of the ICB is: <i>Medical and Diagnostic equipment and Medical Furniture for "Center of Hematology named after R.H. Yeolyan" CJSC, Comprising of 4 lots:</i></p> <p>The identification number of the ICB is: CR4/ICB/B-G/012-15</p> <p>Lot 1–<i>Supply and Installation of Diagnostic and Imaging equipment for "Center of Hematology named after R.H. Yeolyan" CJSC; ICB No: CR4/ICB/B-G/012/1-15</i></p> <p>Lot 2–<i>Supply and Installation of Laboratory equipment for "Center of Hematology named after R.H. Yeolyan" CJSC; ICB No: CR4/ICB/B-G/012/2-15</i></p> <p>Lot 3- <i>Supply and Installation of Surgery and Hospital equipment for "Center of Hematology named after R.H. Yeolyan" CJSC; ICB No: CR4/ICB/B-G/012/3-15</i></p> <p>Lot 4 -<i>Supply and Installation of Medical furniture for "Center of Hematology named after R.H. Yeolyan" CJSC; ICB No: CR4/ICB/B-G/012/4-15</i></p> <p><i>Bidder can quote for any one, or more Lots under this Bidding. Bidder can offer discounts for the award of more than one lot as per clause ITB 14</i></p>
ITB 2.1	The Borrower is: <i>Republic of Armenia, “Health projects implementation unit” SA, Ministry of Health.</i>
ITB 2.1	Loan or Financing Agreement amount: 35,000,000USD
ITB 2.1	The name of the Project is: <i>Disease prevention and control project Credit No. 5222 AM</i>
ITB 4.1	Maximum number of members in the JV shall be: 2 (two)
IITB 4.4	A list of debarred firms and individuals is available on the Bank’s external website: http://www.worldbank.org/debarr .

	B. Contents of Bidding Documents
ITB 7.1	<p>For <u>Clarification of bid purposes</u> only, the Purchaser's address is:</p> <p>Attention: <i>Hovakim Podosyan, procurement specialist of the HPIU SA</i></p> <p>Address: <i>Komitas 49/4 ave., 5th floor, procurement department</i></p> <p>City: <i>Yerevan</i></p> <p>ZIP Code: <i>0051</i></p> <p>Country: <i>Republic of Armenia</i></p> <p>Telephone: <i>+3740-297536, 297537, 297538</i></p> <p>Facsimile number: <i>+3740-297539</i></p> <p>Electronic mail address: info@healthpiu.am; procurement@healthpiu.am</p> <p>Requests for clarification should be received by the Employer no later than: <i>[10 days] before Bid opening.</i></p>
ITB 7.1	<p>Web page: www.procurement.am (http://gnumner.am/am/category/129/2.html)</p>
	C. Preparation of Bids
ITB 10.1	<p>The language of the bid is: <i>"English"</i>.</p> <p>All correspondence exchange shall be in <i>English</i> language.</p> <p>Language for translation of supporting documents and printed literature is <i>Armenian and/or Russian.</i></p>
ITB 11.1 (j)	<p>The Bidder shall submit the following additional documents in its bid:</p> <ul style="list-style-type: none"> • <i>Local Bidder shall submit also the documentary evidence of not having differed debts to tax inspection and Social Security state Fund (issued not earlier than 15 days prior of bid opening date).</i> • <i>Statement that the goods supplied in the frames of the contract should be manufactured not earlier than 12 month prior the contract signing.</i> • <i>For Lots 1, 2, 3 applicable: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent), which are specified in technical specifications.</i> • <i>For Lot 4 applicable: The documentary evidence that the Manufacturer qualified with valid ISO9001 certificate (or equivalent) and the goods are certified with valid ISO13485 (or equivalent) or valid CE (Conformité Européenn) Mark (Device) instead of above mentioned ISOs, which are specified in technical specifications.</i>

ITB 13.1	Alternative Bids “ <i>shall not be</i> ”
ITB 14.5	The prices quoted by the Bidder “ <i>shall not</i> ” be subject to adjustment during the performance of the Contract.
ITB 14.6	Prices quoted for each lot (contract) shall correspond at least to [100] percent of the items specified for each lot (contract). Prices quoted for each item of a lot shall correspond at least to [100] percent of the quantities specified for this item of a lot.
ITB 14.7	The Incoterms edition is: INCOTERMS2010 .
ITB 14.8 (b) (i) and (c) (v)	Place of Destination: CIP Yerevan
ITB 14.8 (a) (iii); (b) (ii) and (c) (v)	<p>“Final destinations (Project Site)” are:</p> <p><u>For Lot 1</u></p> <p><i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i></p> <p><u>For Lot 2</u></p> <p><i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i></p> <p><u>For Lot 3</u></p> <p><i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i></p> <p><u>For Lot 4</u></p> <p><i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i></p>
ITB 15.1	<p>The prices shall be quoted by the bidder in: “The bidder may express the bid price in any currency. If the bidder wishes to express the bid as a sum of amounts in different foreign currencies, they may do so, provided the price expressed no more than three foreign currencies”.</p> <p>The Bidder <i>is not</i> required to quote in the currency of the Purchaser’s Country the portion of the bid price that corresponds to expenditures incurred in that currency.</p> <p><i>The local bidders are reminded that the requirements of “The Law of the currency regulation and currency control”# 135-N, adopted by the National Assembly of RA on 24.11.2004, should be respected.</i></p>
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): Four (4) years .
ITB 17.2 (a)	Manufacturer’s authorization is “ required ” for all items under each lot

	<i>with exception of the items N4, N7 and N28 under Lot 4. The originalMAFs should be enclosed in the bid package”.</i>
ITB 17.2 (b)	After sales servicesare: <i>“required” for all itemspresented in Lots 1; 2; 3 and 4.</i>
ITB 18.1	The bid validity period shall be: <i>90 (ninety) days.</i>
ITB 18.3 (a)	The bid price shall be adjusted by the following factor(s): <i>1.02</i>
ITB 19.1	<p>A Bid Security <i>“shall be”</i> required</p> <p>The amount and currency of the Bid Security shall be as follow</p> <p><i>Lot 1: USD 20,000</i></p> <p><i>Lot 2: USD 13,000</i></p> <p><i>Lot 3: USD 12,000</i></p> <p><i>Lot 4: USD 10,000</i></p> <p><u><i>The bid for each lot should be accompanied by a separate Bid Security.</i></u></p>
ITB 19.3 (b) (c)	Not applicable
ITB 19.3 (d)	<p>Other types of acceptable securities:</p> <p><i>None.</i></p>

ITB 19.9	<p>If the Bidder incurs any of the actions prescribed in subparagraphs (a) or (b) of this provision, the Borrower will declare the Bidder ineligible to be awarded contracts by the Purchaser for a period of _____ years.</p> <p><i>Not applicable.</i></p>
ITB 20.1	In addition to the original of the bid, the number of copies is: 3 (three)
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: <i>This authorization shall consist of a written confirmation from the company's director or president and shall be attached to the bid. All pages of the bid where entries or amendments have been made shall be signed or initialed by the person signing the bid.</i>
	D. Submission and Opening of Bids
ITB 22.1	<p>For bid submission purposes only, the Purchaser's address is:</p> <p>Attention: <i>Nelson Zuloian, Acting Director of the HPIU SA</i></p> <p>Street Address: <i>Komitas 49/4 ave.</i></p> <p>Floor/room: <i>5th floor, procurement department</i></p> <p>City: <i>Yerevan</i></p> <p>ZIP/Postal Code: <i>0051</i></p> <p>Country: <i>Republic of Armenia</i></p> <p>The deadline for bid submission is:</p> <p>Date: <i>24 November 2015</i></p> <p>Time: <i>10:00 a.m. (time zone: UTC/GMT +04:00 hours)</i></p> <p>Bidders <i>shall not</i> have the option of submitting their bids electronically.</p> <p>If bidders have the option of submitting their bids electronically, the electronic bidding submission procedures shall be: <i>N/A</i></p>
ITB 25.1	<p>The bid opening shall take place at:</p> <p>Street Address: <i>Komitas 49/4 ave., 5th floor, Meeting room</i></p> <p>City: <i>Yerevan</i></p> <p>Country: <i>Republic of Armenia</i></p> <p>Date: <i>24 November 2015</i></p> <p>Time: <i>10:05 a.m. (time zone: UTC/GMT +04:00 hours)</i></p> <p>If bidders have the option of submitting their bids electronically, the electronic bidding opening procedures shall be: <i>N/A</i></p>
ITB 25.3	The Letter of Bid and Price Schedules shall be initialed by one representative of the Purchaser conducting Bid opening.

E. Evaluation and Comparison of Bids	
ITB 32.1	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: AMD.</p> <p>The source of exchange rate shall be: Central Bank of the Republic of Armenia www.cba.am</p> <p>The date for the exchange rate shall be: Bid opening date</p>
ITB 33.1	A margin of domestic preference “ shall not ” apply.

ITB 34.2(a)	<i>Bids will be evaluated lot by lot. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. An item not listed in the Price Schedule shall be assumed to be not included in the bid, and provided that the bid is substantially responsive, the average price of the item quoted by substantially responsive bidders will be added to the bid price and the equivalent total cost of the bid so determined will be used for price comparison.</i>
ITB 34.6	<p>The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria:</p> <ul style="list-style-type: none"> (a) Deviation in Delivery schedule: <i>No</i> (b) Deviation in payment schedule: <i>No</i> (c) the cost of major replacement components, mandatory spare parts, and service; <i>No</i> (d) the availability in the Purchaser's Country of spare parts and after-sales services for the equipment offered in the bid; <i>No</i> (e) the projected operating and maintenance costs during the life of the equipment; <i>No</i> (f) the performance and productivity of the equipment offered; <i>No</i>

	F. Award of Contract
ITB 39.1	The maximum percentage by which quantities may be increased is: <i>15</i> The maximum percentage by which quantities may be decreased is: <i>15</i>

Section III. Evaluation and Qualification Criteria

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1. Margin of Preference (ITB 33) N/A**2. Evaluation(ITB 34) N/A****2.1. Evaluation Criteria (ITB 34.6)N/A****2.2. Multiple Contracts (ITB 34.4)**

The Purchaser shall award multiple contracts to the Bidder/s that offers the lowest evaluated combination of bids (one contract per bid) and meets the post-qualification criteria (this Section III, Sub-Section ITB 36.1 Post-Qualification Requirements)

The Purchaser shall:

- (a) evaluate only lots or contracts that include at least the percentages of items per lot and quantity per item as specified in ITB 14.8
- (b) take into account:
 - (i) the lowest-evaluated bid for each lot and
 - (ii) the price reduction per lot and the methodology for its application as offered by the Bidder in its bid”

2.3. Alternative Bids (ITB 13.1) N/A**3. Qualification(ITB 36)****3.1Post qualification Requirements (ITB 36.1)**

After determining the lowest-evaluated bid in accordance with ITB 35.1, the Purchaser shall carry out the post qualification of the Bidder/s and manufacturer/s in accordance with ITB 36,using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder/s and manufacturer/s qualifications.

(a) **For manufacturer/s:**

- (i) The manufacturer shall furnish documentary evidence to demonstrate:
For Lot 1; Lot 2 and Lot 3 -At least 5 years experience in manufacturing of Medical equipment.
For Lot 4 - At least 5 years experience in manufacturing of Medical furniture.

(b) **for bidder/s:**

The Bidder shall furnish documentary evidence (hard copy of similar contract) to demonstrate that:

- (i) Similar experience

For Lot 1 -that it has successfully completed at least 1 contract of supply and installation of Medical Diagnostic and Imaging equipment in the past 5 years (2011-2015). Contract price should be not less than USD 670,000 (tax inclusive) or equal in other currency. The submitted contract should be accompanied with final acceptance act/final payment evidence/references from beneficiaries on successful completion of contracts.

For Lot 2 - that it has successfully completed at least 1 contract of supply and installation of Medical Laboratory equipment in the past 5 years (2011-2015). Contract price should be not less than USD 450,000 (tax inclusive) or equal in other currency. The submitted contract should be accompanied with final acceptance act/final payment evidence/references from beneficiaries on successful completion of contracts.

For Lot 3- that it has successfully completed at least 1 contract of supply and installation of Surgery and Hospital equipment in the past 5 years (2011-2015). Contract price should be not less than USD 400,000 (tax inclusive) or equal in other currency. The submitted contract should be accompanied with final acceptance act/final payment evidence/references from beneficiaries on successful completion of contracts.

For Lot 4 - that it has successfully completed at least 1 contract of supply and installation of Medical furniture in the past 5 years (2011-2015). Contract price should be not less than USD 320,000 (tax inclusive) or equal in other currency. The submitted contract should be accompanied with final acceptance act/final payment evidence/references from beneficiaries on successful completion of contracts.

(ii) Financial Capability

Having financial resources or access to credit line equal to 80% of proposed bid price. This requirement is applicable for all lots under this package.

(iii) Documentary Evidence

The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement: **The table attached (annex 1) shall be filled and signed accordingly.**

(iv) **For Lot 1**-Reference letter from beneficiaries that offered goods have been in successful use at least for past one year (except item 7).

For Lot 2-Reference letter from beneficers that offered goods have been in succesful use at least for past one year (except item 11;16;17;27;28).

For Lot 3-Reference letter from beneficers that offered goods have been in succesful use at least for past one year (except item 7;8;14-16;22-27).

For Lot 4-Reference letter from beneficers that offered goods have been in succesful use at least for past one year (except item 1-8;13;14;18;19;23-25;33;40;41).

The reference letters could be issued on the basis of beneficiaries' cooperation's with Bidder/s or manufacturer/s

The Bidder or the agent in case of submitting lot 1 or/and lot 2 or/and lot 3 shall have at least 3 years experience in providing of installation, operational trainings and technical and professional services of Medical equipment and in case of submitting lot 4 shall have at least 2 years experience in providing of installation of Medical Furniture.

Note: If the Bidder submits Bid for more than one Lot, he should comply to aggregate requirements (financial capacity and similar experience).

Section IV. Bidding Forms

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Letter of Bid

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and address.

Note: All italicized text is for use in preparing this form and shall be deleted from the final products.

Date: **[insert date (as day, month and year) of Bid Submission]**

ICB No.: **[insert number of bidding process]**

Invitation for Bid No.: **[insert identification]**

To: ***[insert complete name of Purchaser]***

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB 8)___;
- (b) We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) We havenot been suspended nor declared ineligible by the Purchaser based on execution of a Bid Securing Declaration in the Purchaser's country in accordance with ITB 4.6
- (d) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: **[insert a brief description of the Goods and Related Services];**

- (e) The total price of our Bid, excluding any discounts offered in item (f) below is:

In case of only one lot, total price of the Bid **[insert the total price of the bid in words and figures, indicating the various amounts and the respective currencies];**

In case of multiple lots, total price of each lot **[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies];**

In case of multiple lots, total price of all lots (sum of all lots) **[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies];**

- (f) The discounts offered and the methodology for their application are:

(i) The discounts offered are: **[Specify in detail each discount offered.]**

(ii) The exact method of calculations to determine the net price after application of discounts is shown below:**[Specify in detail the method that shall be used to apply the discounts];**

- (g) Our bid shall be valid for a period of [*specify the number of calendar days*] days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (h) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (i) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.2(e), other than alternative bids submitted in accordance with ITB 13;
- (j) We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by a member of the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (k) We are not a government owned entity/ We are a government owned entity but meet the requirements of ITB 4.5;¹
- (l) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]**

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

- (m) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (n) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

¹*Bidder to use as appropriate*² The amount of the Bond shall be denominated in the currency of the Purchaser's country or the equivalent amount in a freely convertible currency.

- (o) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption

Name of the Bidder* **[insert complete name of Bidder]**

Name of the person duly authorized to sign the Bid on behalf of the Bidder** **[insert complete name of person duly authorized to sign the Bid]**

Title of the person signing the Bid **[insert complete title of the person signing the Bid]**

Signature of the person named above **[insert signature of person whose name and capacity are shown above]**

Date signed **[insert date of signing]** day of **[insert month]**, **[insert year]**

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*
ICB No.: *[insert number of bidding process]*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.3. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> In case of Government-owned enterprise or institution, in accordance with ITB 4.5 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not dependent agency of the Purchaser
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Bidder's JV Members Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture]].

Date: *[insert date (as day, month and year) of Bid Submission]*

ICB No.: *[insert number of bidding process]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.3. <input type="checkbox"/> In case of a Government-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and absence of dependent status, in accordance with ITB 4.5.
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

Price Schedule: Goods Manufactured Outside the Purchaser's Country, to be Imported

(Group C bids, goods to be imported)						Date: _____ ICB No: _____		
Currencies in accordance with ITB 15						Alternative No: _____ Page N° _____ of _____		
1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price CIP Yerevan in accordance with ITB 14.8(b)(i)	CIP Price per line item (Col. 5x6)	Price per line item for inland transportation and other services required in the Purchaser's country to convey the Goods to their final destination specified in BDS	Total Price per Line item (Col. 7+8)
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert country of origin of the Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
Total Price								

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[Insert Date]*

Price Schedule: Goods Manufactured Outside the Purchaser's Country, already imported*

(Group C bids, Goods already imported)

Currencies in accordance with ITB 15

Date: _____

ICB No: _____

Alternative No: _____

Page N° _____ of _____

1	2	3	4	5	6	7	8	9	10	11	12
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price including Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i)	Custom Duties and Import Taxes paid per unit in accordance with ITB 14.8(c)(ii), [to be supported by documents]	Unit Price net of custom duties and import taxes, in accordance with ITB 148 (c) (iii) (Col. 6 minus Col.7)	Price per line item net of Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i) (Col. 5×8)	Price per line item for inland transportation and other services required in the Purchaser's country to convey the goods to their final destination, as specified in BDS in accordance with ITB 14.8 (c)(v)	Sales and other taxes paid or payable per item if Contract is awarded (in accordance with ITB 14.8(c)(iv))	Total Price per line item (Col. 9+10)
[insert number of the item]	[insert name of Goods]	[insert country of origin of the Good]	[insert quoted Delivery Date]	[insert number of units to be supplied and name of the physical unit]	[insert unit price per unit]	[insert custom duties and taxes paid per unit]	[insert unit price net of custom duties and import taxes]	[insert price per line item net of custom duties and import taxes]	[insert price per line item for inland transportation and other services required in the Purchaser's country]	[insert sales and other taxes payable per item if Contract is awarded]	[insert total price per line item]
										Total Bid Price	

Name of Bidder [insert complete name of Bidder] Signature of Bidder [signature of person signing the Bid] Date [insert date]

* [For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been and/or have to be paid by the Purchaser. For clarity the bidders are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those values.]

Price Schedule: Goods Manufactured in the Purchaser's Country

Purchaser's Country _____					(Group A and B bids) Currencies in accordance with ITB 15			Date: _____ ICB No: _____ Alternative No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7	8	9	10
Line Item N°	Description of Goods	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 4x5)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the Goods to their final destination	Cost of local labor, raw materials and components from within the Purchaser's Country % of Col. 5	Sales and other taxes payable per line item if Contract is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 6+7)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[Insert cost of local labor, raw material and components from within the Purchase's country as a % of the EXW price per line item]</i>	<i>[insert sales and other taxes payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
Total Price									

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Price and Completion Schedule - Related Services

Currencies in accordance with ITB 15						Date: _____ ICB No: _____ Alternative No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7	
Service N°	Description of Services (excludes inland transportation and other services required in the Purchaser's country to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)	
<i>[insert number of the Service]</i>	<i>[insert name of Services]</i>	<i>[insert country of origin of the Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>	
Total Bid Price							

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Purchaser to insert its name and address]*

IFB No.:

Alternative No.: *[Insert identification No if this is a Bid for an alternative]*

Date:*[Insert date of issue]*

BID GUARANTEE No.:*[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its bid (hereinafter called "the Bid") for the execution of _____ under Invitation for Bids No. _____ ("the IFB").

Furthermore, we understand that, according to the Beneficiary's conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid during the period of bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the performance security, in

accordance with the Instructions to Bidders (“ITB”) of the Beneficiary’s bidding document.

This guarantee will expire: (a) if the Applicant is the successful bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such contract agreement; or (b) if the Applicant is not the successful bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No.758.

[Signature(s)]

Form of Bid Security (Bid Bond)

[The Surety shall fill in this Bid Bond Form in accordance with the instructions indicated.]

BOND NO. _____

BY THIS BOND *[name of Bidder]* as Principal (hereinafter called “the Principal”), and *[name, legal title, and address of surety]*, **authorized to transact business in** *[name of country of Purchaser]*, as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[name of Purchaser]* as Obligee (hereinafter called “the Purchaser”) in the sum of *[amount of Bond]*²*[amount in words]*, for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has submitted or will submit a written Bid to the Purchaser dated the ____ day of _____, 20__, for the supply of *[name of Contract]* (hereinafter called the “Bid”).

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

- (a) has withdrawn its Bid during the period of bid validity set forth in the Principal’s Letter of Bid (“the Bid Validity Period”), or any extension thereto provided by the Principal; or
- (b) having been notified of the acceptance of its Bid by the Purchaser during the Bid Validity Period or any extension thereto provided by the Principal; (i) failed to execute the contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to Bidders (“ITB”) of the Purchaser’s bidding document.

then the Surety undertakes to immediately pay to the Purchaser up to the above amount upon receipt of the Purchaser’s first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

The Surety hereby agrees that its obligation will remain in full force and effect up to and including the date 28 days after the date of expiration of the Bid Validity Period set forth in the Principal’s Letter of Bid or any extension thereto provided by the Principal.

IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this ____ day of _____ 20__.

Principal: _____ Surety: _____
Corporate Seal (where appropriate)

² The amount of the Bond shall be denominated in the currency of the Purchaser’s country or the equivalent amount in a freely convertible currency.

(Signature)

(Printed name and title)

(Signature)

(Printed name and title)

Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the **BDS**.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

ICB No.:

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Section V. Eligible Countries

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

In reference to ITB 4.7 and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this bidding process:

Under ITB 4.7(a) and 5.1:*None*.

Under ITB 4.7(b) and 5.1:*None*.

Section VI. Bank Policy - Corrupt and Fraudulent Practices

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.³ In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;⁴
 - (ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;⁵
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;⁶
 - (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;⁷
 - (v) “obstructive practice” is:

³ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

⁴ For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

⁵ For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

⁶ For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

⁷ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

- (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures,⁸ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated⁹;
- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to

⁸ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank's sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

⁹ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

PART 2 – Supply Requirements

Section VII. Schedule of Requirements

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1-1. List of Goods and Delivery ScheduleLot-1

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>	<i>Physical unit</i>	<i>Final (Project Site) Destination as specified in BDS</i>	<i>Delivery (as per Incoterms) Date</i>		
					<i>Earliest Delivery Date</i>	<i>Latest Delivery Date</i>	<i>Bidder's offered Delivery date [to be provided by the bidder]</i>
1	Digital Universal X-Ray Unit	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
2	Mobile X-Ray	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
3	UPS for CT scanner and digital universal X-ray	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>

4	<i>Echocardiography system (5 probes) with printer</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
5	<i>Portable ultrasound</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
6	<i>Tabletop dry imager</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
7	<i>X-ray Film Viewer</i>	<i>10</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

8	CT scanner 32 slice	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
9	Blood components irradiation device	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
10	Ultrasound (3 probes) with printer	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

1-2. List of Goods and Delivery ScheduleLot-2

Line Item N°	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date		
					Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
1	Hematological analyzer	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
2	Automatic Chemistry Analyzer	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
3	Critical Care Analyzer	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
4	Coagulometer automatic	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

5	<i>Urinalysis System</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
6	<i>Autoclave (horizontal)</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
7	<i>Autoclave Table-Top</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
8	<i>Hot air sterilizer</i>	8	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
9	<i>Incubator</i>	8	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
10	<i>Microscope Binocular</i>	10	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

11	Water Bath	10	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>
12	Table Top Centrifuge 30x15ml	8	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>
13	Table Top Centrifuge 12x15ml	9	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>
14	Table Top Centrifuge 6x30ml	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>
15	Table Top Centrifuge 24x2.0 ml	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>
16	Blood Cell Counter with windows	10	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature</i>

17	Water Still 12L/H	4	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
18	Pure Water System 40L/H	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
19	Automatic instrument for the determination of the ESR	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
20	Fume Hood	11	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
21	Trinocular microscope with photocamera	2	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
22	Analyzer of blood group and rhesus	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

23	<i>Automatic apparatus for electrophoresis with immunofixation</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
24	<i>Plasma thawing bath</i>	8	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
25	<i>Blood components heater</i>	8	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
26	<i>Apparatus for extracorporeal correction homeostasis</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
27	<i>Freezer</i>	3	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
28	<i>Laboratory freezer-refrigerator</i>	3	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

29	<i>Apparatus for extracorporeal photochemotherapy</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
30	<i>Ozone Sterilizer</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

1-3. List of Goods and Delivery ScheduleLot-3

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>	<i>Physical unit</i>	<i>Final (Project Site) Destination as specified in BDS</i>	<i>Delivery (as per Incoterms) Date</i>		
					<i>Earliest Delivery Date</i>	<i>Latest Delivery Date</i>	<i>Bidder's offered Delivery date [to be provided by the bidder]</i>
1	<i>Video pediatric gastroscope and video colonofiberscope</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
2	<i>Electrocardiograph</i>	3	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
3	<i>OT Light (with multi color chip)</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

4	<i>Mobile OT Light (with single color chip)</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
5	<i>Electrosurgical Unit</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
6	<i>Ventilator</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
7	<i>Nebulizer</i>	4	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
8	<i>Oxygen Concentrator</i>	2	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>

9	Defibrillator with monitor	3	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
10	Patient Monitor	16	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
11	Syringe pump	35	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
12	Volumetric Infusion Pump	45	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>

13	Suction Pump	4	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
14	Operating instrument set	2	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
15	AMBU emergency case	2	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
16	UV-Air Flow Cleaner–Recirculators	28	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
17	Anesthesia trolley (anesthesia machine with ventilator and monitor)	1	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>

18	<i>Portable anesthesia machine</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
19	<i>Operating table multifunctional</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
20	<i>Operating Table Universal (Electric)</i>	<i>2</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
21	<i>Laparoscopy set</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

22	<i>Gynecological Couch</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
23	<i>Tracheostomy instrument set</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
24	<i>Scale for Adults</i>	5	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
25	<i>Examination Lamp</i>	15	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
26	<i>Dryer</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

<i>27</i>	<i>Washer extractor</i>	<i>1</i>	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
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1-4. List of Goods and Delivery ScheduleLot-4

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>	<i>Physical unit</i>	<i>Final (Project Site) Destination as specified in BDS</i>	<i>Delivery (as per Incoterms) Date</i>		
					<i>Earliest Delivery Date</i>	<i>Latest Delivery Date</i>	<i>Bidder's offered Delivery date [to be provided by the bidder]</i>
1	<i>Reception desk for first floor</i>	1	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
2	<i>Reception desk</i>	2	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>
3	<i>Table for laboratory equipment</i>	32	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature</i>

4	Plastic Chairs	750	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
5	Writing Desk	115	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
6	Cabinet	90	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>
7	Chair	125	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	<i>[insert the number of days following the date of Contract signature]</i>

8	Wardrobe	41	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
9	Bed With Backrest	48	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
10	Rehabilitation Bed (electric bed)	13	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
11	Baby bed	5	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
12	Baby crib	5	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

13	Table for wrapping for infants	2	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature
14	Hanger	160	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature
15	Soled linen trolley	14	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature
16	Bowl`s stand	12	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature

17	Medical examination couch	40	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
18	Cabinet for medicine	110	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
19	Bedside Locker	50	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
20	Color LED TV - 42"with holder	13	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
21	Color LED TV - 32"with holder	68	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

22	Refrigerator	70	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
23	Cabinet with Shelves	110	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
24	Table	100	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
25	Nurse station	8	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

26	Table for medical instruments (B)	14	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
27	Table for medical instruments (A)	70	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
28	Waste bin	300	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
29	Folding screen	25	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
30	Mounting step	15	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

31	Infusion fluid holder	50	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
32	Revolving chair with gas pump	15	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
33	Changing room locker, single door	180	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]
34	Refrigerator	30	Unit	"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.	N/A	Within 120 days after Contract signature	[insert the number of days following the date of Contract signature]

35	<i>Kitchen sink with electric hod</i>	5	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
36	<i>Kitchen furniture (stainless steel)</i>	1	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
37	<i>Patient trolley</i>	6	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
38	<i>Movable table</i>	87	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
39	<i>Special Chair</i>	22	Unit	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	N/A	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

40	<i>Bedside cabinet</i>	87	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>
41	<i>Reception desk for emergency</i>	1	<i>Unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>N/A</i>	<i>Within 120 days after Contract signature</i>	<i>[insert the number of days following the date of Contract signature]</i>

2-1. List of Related Services and Completion Schedule Lot-1

Installation of equipment and operation training

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>1</i>	<i>Installation of all equipment</i>	<i>19</i>	<i>unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 25 days after delivery to the final destination of goods</i>
Service	Description of Service	period of time	No. of Persons, training area	Place where Services shall be performed	Final Completion Date(s) of Services
<i>2</i>	<i>Operation Training</i>	<i>During 5 days</i>	<i>2 Radiologist, 2 technical specialist for radiology and 4 sonographers and 4 nurses to be trained</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 15 days after installation of goods</i>

2-2. List of Related Services and Completion Schedule Lot-2

Installation of equipment and operation training

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>1</i>	<i>Installation of all equipment</i>	<i>121</i>	<i>unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 25 days after delivery to the final destination goods</i>
Service	Description of Service	period of time	No. of Persons, training area	Place where Services shall be performed	Final Completion Date(s) of Services
<i>2</i>	<i>Operation Training</i>	<i>During 5 days</i>	<i>25 persons in area of laboratory to be trained</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 15 days after installation of goods</i>

2-3. List of Related Services and Completion Schedule Lot-3

Installation of equipment and operation training

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>1</i>	<i>Installation of all equipment</i>	<i>182</i>	<i>unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 25 days after delivery to the final destination of goods</i>
Service	Description of Service	period of time	No. of Persons, training area	Place where Services shall be performed	Final Completion Date(s) of Services
<i>2</i>	<i>Operation Training</i>	<i>During 5 days</i>	<i>20 persons in hospital area to be trained</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 15 days after installation of goods</i>

2-4. List of Related Services and Completion Schedule Lot-4

Installation of medical furniture

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>1</i>	<i>Installation of all furniture</i>	<i>2892</i>	<i>unit</i>	<i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>	<i>within 25 days after delivery to the final destination of goods</i>

3. Technical Specifications

The Technical Specifications(TS)of the Goods required by the Purchaser.

All goods and materials to be incorporated in the goods will be new, unused, and of the most recent or current model.

<i>N</i>	<i>NAME</i>	<i>TECHNICAL SPECIFICATION</i>	<i>QUANTITY</i>
		<i>"Center of Hematology named after R.H. Yeolyan" CJSC Diagnostic and Imaging equipment- Lot 1</i>	
1	Digital Universal X-Ray Unit	<p><i>DRF digital radiography and fluoroscopy system</i></p> <p><i>System specifications</i></p> <p>Universal Unit Fully digital Remote controlled overtable system for digital fluoroscopy and digital radiography as a 2-in-1 solution.</p> <p>Multifunctional, workflow-optimized system remote control console for controlling system , generator functions.</p> <p>Microprocessor-controlled user interface for generator, imaging chain and image functions, selection of system functions and display of system statuses. Intuitive, ergonomic operation through direct selection of workplaces and for fully digital image chain with network connectivity in DICOM standard: Send, Print and Storage Commitment. DICOM DVD / CD burner.</p> <p>Overhead Tube on the freely moving Tube Arm mounted on the patient Table, without any floor or ceiling mounted column.</p> <p>The System to be suitable for Standard Skeletal and Radiographic Examinations, Including Lateral Exposures and Oblique Beam Projections.</p> <p><i>Table.</i></p> <p>Tilt: Motor Driven: <i>not less than +90° ... -17°</i>, automatic stop in horizontal position</p> <p>Height: <i>not more than 99 cm</i></p> <p>Tabletop Outside Dimensions:</p> <p>Length: <i>not less than 200cm</i></p> <p>Width: <i>not less than 75cm</i></p> <p>Radiolucent: <i>not less than 190cm x 50cm</i></p> <p>Longitudinal motorised travel: <i>not necessary but it is desirable</i></p> <p>Traversal tabletop movement: <i>not less than ±11cm</i></p> <p>Patient scan range: <i>not less than 135cm</i></p> <p>Patient weight: 200kg, deviation not more than 10%</p>	1

Tube Assembly.
Dual-focus X-ray tube.
Max. exposure voltage: at least 150 kV
Anode heat storage capacity: 260000...550000J (350...742kHU)
Anodes drive: not less than 2700...3000 U/min
Focal spot nominal value:
Small focus: 0.6 mm, deviation not more than 10%
Large focus: 1.0 – 1.2 mm
Nominal output of anode:
Small: 30...40kW
Large: 70...80kW
Complete filtration: $W \geq 2.5$ mm Al or equivalent
Oblique Projections -40°... +40°: not necessary but it is desirable
Tube Assembly manually Swivel in the Range $\pm 180^\circ$: availability
Flat panel detector
The digital high-resolution dynamic flat detector with integrated removable grid
Detector size: not less than 43cm x 43cm or diameter not less than 31cm
Pixel size: not more than 200µm
Image matrix size: not less than 1024x1024 pixel
Detail resolution: not less than 1.4 PL/mm
Usable input formats:
Overview: not less than 42cm x 42cm or diameter 31cm
Zoom 1 not less than 30cm x 30 cm or diameter 29cm
Zoom 2 not less than 22cm x 22cm or diameter 21cm
Zoom 3 not less than 15cm x 15cm or diameter 16cm
Obligatory Operating Modes
Digital radiography
Single image and serial mode up to 1024 x 1024 12-bit matrix.
Serial mode with variable frame rate max. not less than 8 f/s in min three steps
Last Image Hold (LIH)
Measuring chamber for acquisition of the dose-area product and display of the value for measured dose-area product is and the calculated patient entry dose on the flat-screen monitor
Radiation free placement of collimator blades in the LIH.
Digital Density Optimization
Obligatory Image Processing

Real-time edge enhancement
positive/negative image display
electronic display (shutter),
vertical and horizontal image inversion
magnifying glass functions
zoom functions
post-processing with high detail contrast and reduced noise
quantification: angle/length measurement.
Image display
Image review and display in 100 Hz progressive display (1024 x 1024 matrix) through high-resolution, flicker-free flat-screen displays: <i>availability</i>
Screen layout with 4, 9, 16 images of an examination: <i>availability</i>
Image storage capacity
No. of images for permanent storage in 1k/12-bit matrix <i>not less than 50,000</i>
No. of images for permanent storage in 2840 x 2880 matrix <i>not less than 2,000</i>
Compression unit
Remote-controlled compression device integrated in the tube support
LCD color display
Medical grade color flat panel display for live image display in the examination room: <i>one not less than 19"</i>
Mobile display trolley with radiation indicator and with min. one tiltable <i>not less than 19" medical grade</i> color flat-screen display with high luminance and extended field of view
Connectivity
DICOM Send: <i>availability</i>
DICOM Print: <i>availability</i>
DICOM Storage Commitment (StC): <i>availability</i>
DVD for Fluoro Recording: availability
Power Connection
Nominal Voltage: <i>3/N/PE, 380V</i>
Nominal Frequency: 50Hz.
Completeness:
Lead glass, radiation protection window <i>80x100cm. deviation not more than 10%, 2.0mm. Pb</i>
Accessories:
The set includes all the necessary additional devices (example: workstation) , accessories to complete functioning of the equipment and safety accessories required for the protection of personnel
Standards:

		The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent and CE (Conformité Européenne) Mark (Device) instead of above mentioned ISOs.	
2	Mobile X-Ray	<p>For transported from department to department, moving in elevators, over thresholds and around corners. For use in the intensive care, premature children, accident, and X-ray wards.</p> <p>Mobile radiographic unit; high-frequency generator with primary storage, generator rating 30 kW</p> <p>Power requirements: automatic line voltage adaptation 220V/ 50Hz</p> <p>Battery: availability</p> <p>Compact design:</p> <p>High-frequency generator with single-tank tube unit, multipulse voltage form</p> <p>High generator rating with primary storage: not less than 30 kW</p> <p>Monobloc thermal capacity: not less than 60000J (800kHU)</p> <p>Free setting of the kV and mAs.</p> <p>kV range: 40 kV...125 kV, deviation not more than 10%</p> <p>mAs range: 0.1...250 mAs, deviation not more than 10%</p> <p>Maximum switching time: not less than 4s</p> <p>Remote control: availability</p> <p>Counterbalanced tube support arm: availability</p> <p>Exact positioning of the unit by swiveling castors: availability</p> <p>Tube head rotatable in all planes.</p> <p>Single-tank tube unit with built-in rotating anode tube: not less than 3000 rpm (50 Hz), deviation not more than 10%</p> <p>Double focal spot: 0.6-0.8 and 1.2-1.3mm</p> <p>Small focus: not less than 16Kw</p> <p>Large focus: not less than 30Kw</p> <p>Anode thermal capacity: not less than 80000 J (107 kHU)</p> <p>Anodic angle: not less than 15°</p> <p>Manual collimator with internal light source, multilayer, square field: availability</p> <p>Collimator rotation: not less than ±120°</p> <p>Cassette compartment for holding: not less than 4 cassettes, 35x43cm (14x17")</p> <p>Cassette 4 different size: availability</p> <p>Weight: not more than 180kg</p> <p>Standards:</p>	1

		<p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p> <p>X-Ray Film processor tabletop</p> <p>Processing machine for X-ray films from:</p> <p>10x10cm ... 35x43cm</p> <p>Processing chemicals Commercial products suitable for table-top machines</p> <p>Developer, Fixer, Watertank capacity: <i>not less than 2.1L</i></p> <p>Replenishment bottles: <i>not less than 5L each</i></p> <p>Heating time <i>not more than 10min.</i></p> <p>Films All double-sided coated general X-ray films suitable for automatic processing.</p> <p>Film throughput <i>not less than 70pcs./hour</i></p> <p>Film throughput speed: <i>not less than 35cm /min</i></p> <p>Processing time: <i>not more than 100 sec</i></p> <p>Noise level: <i>not more than 60dB (A)</i></p> <p>Power supply: <i>220V/50Hz</i></p> <p>Max. power consumption: <i>not more than 1200 W</i></p> <p>Dimensions: <i>not more than 90L x 70W x 45H cm</i></p> <p>Replenishment bottles are supplied with machine</p> <p><i>Accessories supplied with machine</i></p> <p>Light-tight cover</p> <p>Permanent water connection</p> <p>External replenishment system</p> <p>Table for X-Ray Film processor</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
3	UPS for CT scanner and digital universal X-ray	<p>UPS (UNINTERRUPTIBLE POWER SUPPLY) for CT scanner and digital universal X-ray not less than 120kVA</p> <p>From Critical Power Supplies must be an on-line double-conversion UPS and designed to give <i>not less than 20 minutes run time</i>, of simultaneous work CT scanner and digital X-ray, without power on input.</p> <p>The UPS has a three phase input and output.</p> <p>Technology: On-line UPS</p> <p>Format: Floor Standing</p>	1

		<p>Battery unit must be designed for the special battery and is made by the same manufacturer as the electronic control unit.</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
4	Ultrasound (5 probes) with printer	<p><i>Ultrasound System with 5 probes and printer.</i></p> <p><i>Applications:</i> Abdominal, Cardiac, Small Parts, Vascular, Peripheral Vascular, Pediatric</p> <p><i>Scanning methods:</i></p> <p>Electronic Convex: <i>availability</i></p> <p>Electronic Linear: <i>availability</i></p> <p>Electronic Phazed Array Sector: <i>availability</i></p> <p><i>Operating modes (not less than this modes or analog modes)</i></p> <p>B-Mode: <i>availability</i></p> <p>M-Mode: <i>availability</i></p> <p>D: Spectral Doppler mode (PW, CW, HPRF-PW): <i>availability</i></p> <p>Power Doppler Imaging (PDI): <i>availability</i></p> <p>Flow mode: <i>availability</i></p> <p>PW Doppler with High PRF: <i>availability</i></p> <p>Power Flow mode (Directional Power Flow): <i>availability</i></p> <p>3D/4D Volume Modes: <i>availability</i></p> <p><i>Physiological Signal Display.</i> Displayed information: ECG ECG synchronized display: Available for one phase Detect regular pulse from arrhythmia(RRp/RRpp) Display position: Continuously variable (both in B and M modes): <i>availability</i></p> <p><i>Display modes (not less than this modes or analog modes):</i> Multiple combinations of B, M, D, color flow, power flow in duplex and triplex mode</p> <p><i>Dynamic Slow-motion Display</i> (Real-time image/Slow-motion image, side by side display); Panoramic View; Trapezoidal Scan / Vector Scan; Intermittent trigger mode; Monitor mode; TDI (Tissue Doppler Imaging); RT-3D (4D) mode; Real-time Tissue Elastography; Real-time Biplane.</p> <p>CHI (Contrast Harmonic Imaging): Display of low sound pressure imaging: <i>availability</i></p> <p>CHI-Color: contrast echo information as color image onto tissue image: <i>availability</i></p> <p>Stress Echo analysis: <i>availability</i></p>	1

Cine Memory

Cine search and loop display (in B mode): ECG time phase display is possible. Capacity B mode: max. **not less than 1,000 frames**. M and D modes: **max. not less than 60 seconds; availability**

On B Mode (not less than this modes or analog modes)

Display Gray Scale: **not less than 256 levels**.

Zoom 10X: **availability**

Max depth: **not less than 30cm**

Persistence: **user adjustable steps**

Depth Gain Compensation: **8 controls**

Dynamic range: **not less than 210db**

Edge Enhance: **user adjustable steps**

Gamma Control: **availability**

Compounding: **availability**

Trapez: **availability**

Auto Optimizer for 2D and spectral Doppler imaging: **availability**

Hi Resolution: **availability**

On M-mode (not less than this modes or analog modes)

Sweep Speed 8 selections: **availability**

Gain: **user adjustable**

Anatomical M-mode: **availability**

No automatic optimization of Gain: **availability**

Sweep method: **availability**

On Spectral Doppler (not less than this modes or analog modes)

Power Spectrum : **availability**

Real-Time Doppler Auto Trace: **availability**

Doppler Methods : **availability**

Reference frequencies Transducer depending : **availability**

Velocity Range PW: **0,12 ... 200cm/s , CW 20m/s max**

Steerable CW : **availability**

Steered Line: **±20°**

Auto Angle Correction : **availability**

Spectrum invers : **availability**

Angle Correction: **0 ... 89°**

Volume Size: **0,2... 4cm**

Doppler Gain: **user adjustable**

CW Auto Noise reduction : **availability**

Dynamic range **30 ... 90 db**

On Color Flow Mapping (not less than this modes or analog modes)

Color Area Size: 10 ...100 %

Line density ***not less than 256 Color Flow Lines***

Velocity: ***0,004 ... 450cm/s***

Reference Frequencies Transducer depending: ***availability***

Smoothing: ***user adjustable steps***

Persistence: ***user adjustable steps***

Power Flow: ***availability***

On B-mode (Basic measurements & analysis or equivalent measurement & analysis mode): Distance, Dist-trace, Area/Circum, Volume, Hip J Angle, Angle, B.Index. ***On M-mode image:*** Length, Time, Heart Rate, M.VEL, M.Index. ***On spectral Doppler:*** D.VEL, ACCEL, RI, Time, P1/2T, Heart Rate, D.Caliper, D.Index (Caliper), D.Index (Trace), Mean.VEL., PI, D.Trace, Steno Flow, Regurg Flow, Real-time Doppler auto trace. ***On B/D mode:*** Blood Flow

Application measurements (not less than this modes or analog modes)

Cardiac analysis

B modeLV Volume measurements: Area-length, BP-ellipse, Simpson (Disc), Modified Simpson, Bullet, Pombo, Teichholz, Gibson. Valve area measurements (AVA, MVA); LA/AO; Ratio; Right ventricle measurements; LV myocardial mass IVC measurements.

M mode Pombo (wall), Teichholz (wall), Gibson (wall) . Mitral valve measurements; LA/AO measurements; Tricuspid valve measurements; Pulmonary valve measurements; IVC (inferior vena cava) measurements

Doppler mode LVOT (left ventricle outflow tract) flow; RVOT (right ventricle outflow tract) flow; Trans-mitral flow; Regurgitant flow (AR, PR, MR, TR); Stenotic flow; Pulmonary vein flow; Coronary flow TDI PW B(Flow)/D mode: PISA measurements

B TDI mode:Asynchrony analysis for CRT or DTI doppler tissue imaging

Vascular analysis

Carotid artery: CCA; ICA; ECA; BIFUR; VERT; % Stenosis area; % Stenosis diameter; IMT

Automated IMT(Intima-Media Thickness) measurement.

Measurements of arteries in extremities:Lower extremity artery flow; Upper extremity artery flow;

Stenotic rate: % Stenosis area ;% Stenosis diameter; Transit time of Vessel Flow measurements (TVF)

Measurements of veins in extremities: Lower extremity venous flow; Upper extremity venous flow;

Trans-cranial blood flow measurements.

Small parts measurements & calculations: Lesion (Breast); D/W ratio; NT distance; Thyroid volume; Isthmus Thickness; Breast Doppler flow; Thyroid Doppler flow; Flow Histogram. Abdominal measurements & calculations: Gall bladder; Common bile duct; Liver; Pancreas; Kidney; Spleen; SOL (Space Occupying Lesion); Vessel diameter (aorta, portal vein); Stenotic rate (diameter, area); Abdominal aortic flow; Renal flow; Portal vein flow; Shunt flow; Flow volume.

		<p><u>Report Functions:</u>Obstetrical report; Gynecological report; Cardiac function report; Vascular report; IMT (Intima-Media Thickness) report; Urological report; Abdominal measurement report; Small parts report</p> <p>On Physiological Signal Display displayed information (<i>not less than presented or equivalent</i>): ECG, PCG, Pulse wave, breathing waveform</p> <p>RT-3D (4D): availability</p> <p>Probe connectors:</p> <p>Active connectors: <i>not less than 3 connectors</i></p> <p>Viewing Monitor: <i>not less than 21" diagonal color LCD display</i></p> <p>Articulating monitor arm: <i>availability</i></p> <p>Probe completeness (not less than presented probe or analog probe):</p> <p>Abdominal application electronic convex sector probe <i>approx 1.5 ... 5.0 MHz, with puncture adapter</i></p> <p>Small Organ application electronic linear probe <i>approx 5.0 ... 15.0 MHz, with puncture adapter</i></p> <p>Cardiac Adult application electronic phased array sector probe. <i>approx 1.7 ... 5.0 MHz, with scanning angle not less than 90°</i></p> <p>Independent CW Doppler Probe: <i>approx 2.0MHz.</i></p> <p>Independent CW Doppler Probe: <i>approx 5.0MHz.</i></p> <p>Power Requirements: <i>220V / 50 Hz.</i></p> <p>IEC 60601-2-37 Medical electrical equipment: <i>availability</i></p> <p>Electromagnetic compatibility: <i>availability</i></p> <p>Accessories:</p> <p>Ultrasound gel - 1bottle, electrodes - 2pack, printer - 1pc, paper for printer -2rol</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
5	Portable ultrasound	<p><i>Portable ultrasound system of advanced technologies such as Color, Power, and Spectral Doppler, Harmonic Imaging, Speckle Reduction, Spatial Compounding, Trapezoid Imaging, and Panoramic Imaging with 2 probes</i></p> <p>Applications (not less than presented applications or analog applications): Abdominal (Adult, Pediatric, Neonatal), Adult Transcranial, Breast, Cardiac (Adult, Pediatric, Neonatal), Emergency, General Imaging, Musculoskeletal, OB/GYN, Small Parts, and Vascular.</p> <p>Display Screen:Color LCD: <i>not less than 15"</i></p> <p>Scanning Methods :</p> <p>Electronic Convex Sector: <i>availability</i></p>	1

Electronic Linear: <i>availability</i>
Phased: <i>availability</i>
<i>Imaging Modes (not less than presented modes or analog modes)</i>
2D (B-mode), B-mode steering, B-mode AutoAdjust, Colorize 2D, M-mode and PW/CW, PW/CW Doppler, Non-imaging CW, PW/CW Doppler AutoAdjust, C (Color Doppler), TEI (Harmonic Imaging), TPView (Trapezoid Imaging), VPan (Panoramic Imaging), Bidirectional Power Doppler
<i>Display Modes (not less than presented modes or analog modes)</i>
256 gray levels or B-color levels, 32 bits Color levels, Orientation: Left/Right, Up/Down, Real-time Triplex mode, 2D+2D (with or without C or PWR D), 2D+M-mode (update or Real-time Duplex), 2D+C+M-mode (update), 2D+Doppler (update or Real-time Triplex), 2D+PWR D, 2D+PWR D+Doppler (update or Real-time Triplex), Colorize on all combinations.
Harmonic imaging: <i>available on all imaging transducers</i>
Three selectable frequencies: <i>General, Resolution, Penetration</i>
Speckle reduction and customizable presets for real-time optimization of the image process algorithm: <i>availability</i>
Optimize image quality for improve detection of anatomical structures: <i>availability</i>
Trapezoid imaging on all linear probes, specially for breast, vascular, musculoskeletal, and thyroid applications : <i>availability</i>
Panoramic view:available
<i>Control Panel:</i> Full alphanumeric keyboard, dedicated technology buttons, dedicated function keys.
<i>Information displayed on monitor (not less than presented or analog):</i> Application, Selected preset, On-line help for measurements, Date & hour, Type of probe, Probe orientation, Operating frequency range, Acoustic power output, Depth, Focus, Doppler angle, Color & Spectral Doppler filter, Sample volume size, Gain, PW/CW frame rate, Biopsy line, Patient data, Hospital data and annotations Heartbeat, Remote DICOM printing and storage status, Remote digital printing and storage status, Body markers, Timer
Image Format:Imaging - Full, Split, Multiple, Left/Right, Up/Down imaging; Tracing - Split, Dual (scroll by line)): <i>availability</i>
Multi-frequency electronic transducer (Convex, Phased, Linear, Pencil CW): <i>availability</i>
<i>In B mode availability</i>
<i>In M mode availability</i>
<i>In PW Doppler mode availability</i>
<i>In CW Doppler mode availability</i>
<i>Measurements and Reporting: all standard in B, M and Doppler modes</i>

		<p>Abdomen, Breast, Cardiology, Gynecology, Obstetric with programmable tables, Pediatric, Small Parts, Thyroid, Transcranial, MSK, Vascular, Standard biometry reports and user customizable reports, Cardiac, OB/GYN, All reports are automatically stored on the system in the patient file, Archiving of structured reports requires the purchase of the DICOM module</p> <p>Weight with battery: not more than 10 kg</p> <p>Power supply: 220V/50Hz</p> <p>Battery: availability</p> <p>Battery operating (is obligatory): removable Li-ion batteries with operating time not less than 0.5 hour.</p> <p>Probes – 2 probes for abd, brest, ob, gin, small parts.</p> <p>Probe completeness (not less than presented probe or analog probe):</p> <p>Electronic Convex Sector: approx 2 ... 5 MHz</p> <p>Electronic Linear: approx 4... 10 MHz</p> <p>Accessories:</p> <p>Ultrasound gel - 1bottle</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
6	Tabletop dry imager	<p>Multi- size direct digital tabletop solid-state technology DICOM-native imager, which makes network connectivity easy. No wet processing, no darkroom, no complicated adjustments or cleaning procedures.</p> <p>It must be designed and connected so as to provide both simultaneous print from digital X-ray and CT scanner</p> <p>Sizes: 8 x 10 inch, 10 x 12 inch, 11 x 14 inch, 14 x 14 inch; min. Two on-line sizes</p> <p>Throughput:</p> <p>8 x 10 inch: 140 sheets/hour, deviation not more than 10%;</p> <p>11 x 14 inch: 86 sheets/hour, deviation not more than 10%;</p> <p>14 x 17 inch: 75 sheets/hour, deviation not more than 10%;</p> <p>Printing resolution: Geometrical - not less than 320 ppi;</p> <p>Contrast: not less than 12 bits contrast resolution</p> <p>Weight (without film): 90 kg, deviation not more than 10%;</p> <p>Dimensions (W x D x H): 75 x 75 x 55 cm, deviation not more than 10%;</p> <p>Power consumption: Peak - 550 Watt, deviation not more than 10%; Printing - 250 Watt, deviation not more than 10%; Standby: 70 Watt, deviation not more than 10%;</p> <p>Capacity of supply tray: not less than 100 sheets</p> <p>Power supply: 220V/50Hz</p> <p>Accessories:</p>	1

		The set includes all the necessary additional devices and accessories to complete functioning of the equipment	
		Standards:	
		The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent and CE (Conformité Européenn) Mark (Device) instead of above mentioned ISOs.	
7	X-ray Film Viewer	X-ray Film Illuminator (Viewer), for two films 35x43cm. Wall-Mount <i>not less than 15-watt</i> Fluorescent tubes with a color Temperature of <i>6500° Kelvin color, deviation not more than 10%</i> provide a Bright and even Spread of light. Transparent Spring-loaded film Retainers grip lightly and firmly without obscuring top edge details Rigid welded steel construction finished in white enamel with stainless steel trim Screen recessed into the cabinet to help keep the interior dust free and eliminate side light spill Flicker-free Capability The front acrylic Screen not fixed directly to the cabinet and so free to move in order to eliminate screen distortion due to thermal expansion. The film retainers always operate effectively maintaining an even pressure across the full width of the illuminator. Inner Paint: <i>Optical White</i> Direct Starting, Luminous Source: Daylight Front Side: ON/OFF button Bipolar Switch with Pilot lamp Wall Fixations provided for Cord , Local Plug Power Supply: <i>220V/50Hz</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	10
8	CT scanner 32 slice	Multislice CT scanner adapted specifically for clinical routine. The simplified user interface guides the operator, and wherever possible automated workflow. Gantry Aperture [cm]: <i>not less than 70cm</i> Slip ring for power supply [low voltage]: <i>availability</i> Tilt range [degree]: <i>not less than ±30 , increment not more than 0.5</i> Positioning lights - panels (Transaxial, sagittal, coronal): <i>availability</i>	1

Positioning lights type (Laser): <i>availability</i>
Positioning lights accuracy(at centre of gantry) [mm]: <i>not more than ± 1</i>
Gantry weight [kg]: <i>not more than 2300</i>
<i>X-ray generator</i>
Location: <i>Rotation assembly or Gantry</i>
Method of generator cooling: <i>Air or Water</i>
Power rating [kW]: <i>not more than 100</i>
kV settings ranges: <i>not less than 80...130</i>
mA range: <i>not less than 10...340, increment not more than 5mA step</i>
<i>X-ray tube</i>
Anode heat capacity [MHU]: <i>not less than 6</i>
Maximum anode cooling rate [kHU/min]: <i>not less than 810</i>
Method of tube cooling: <i>Oil or Air</i>
Expected tube life: <i>not less than 6000 exams or 3 years</i>
<i>Detection system</i>
Detector type (Solid state array): <i>availability</i>
Maximum number of slices: <i>not less than 32</i>
Hardware features to improve xy-plane resolution: <i>availability</i>
Hardware features to improve z-axis resolution: <i>availability</i>
Spatial resolution [Ipcm]: <i>not less than 17</i>
<i>Couch</i>
Horizontal movement range [cm]: <i>not less than 160cm</i>
Couch control on gantry (Front, Left, Right): <i>availability</i>
Couch control in room: <i>availability</i>
Couch control on console: <i>availability</i>
<i>Scanned projection radiography (SPR)</i>
SPR dimensions [mm x mm]: <i>adjustable</i>
Angular positions of X-ray tube availability for SPR [degrees]: <i>0...359, increment not more than 1 degree step or lateral</i>
Maximum number of SPR views availability for scan planing: <i>2</i>
Accuracy of slice prescription from SPR [mm]: <i>not more than ± 0.5</i>
<i>Parameters</i>
Minimum reconstruction field of view: <i>5...9.6 cm</i>
Maximum reconstruction field of view at full image quality: <i>50cm</i>
Reconstruction matrices: <i>not less than 512 x 512</i>
<i>Sequential image slice option</i>

Beam collimation slice widths (mm): <i>2.5, 5, 10, 20, 40 or equivalent</i>
<i>Helical image slice option</i>
Beam collimation slice widths (mm): <i>3, 5, 20, 40 or equivalent</i>
Minimum reconstruction interval of images, helical scanning (mm): <i>0.1</i>
<i>Functionality</i>
Number of prospective reconstructions that can be set up in protocol: <i>3...8</i>
Simultaneous scanning and routine analysis: <i>availability</i>
Simultaneous scanning and archiving and/or hard copy: <i>availability</i>
<i>Data processing</i>
Reconstruction algorithm - sequential scanning: <i>Filtered back projection or equivalent</i>
Reconstruction approach - sequential scanning: <i>minimum 2D</i>
Cone beam reconstruction - sequential scanning: <i>availability</i>
Cone beam reconstruction - helical scanning: <i>availability</i>
Low signal correction: <i>availability</i>
Motion correction: <i>availability</i>
Beam hardening algorithms: <i>availability</i>
Noise reduction techniques - raw data based: <i>availability</i>
Other artefact reduction methods: <i>availability</i>
<i>System start up and calibration</i>
Total time from standby mode to scanning (mins): <i>not more than 30</i>
Total time from standby mode to scanning in an emergency (mins): <i>not more than 1</i>
Power on to ready to warm up (mins): <i>not more than 10</i>
Standby to ready to warm up: <i>not more than 1</i>
Tube warm up time (mins): <i>not more than 5</i>
<i>Performance data</i>
In plane spatial resolution for sharpest clinical algorithm (lp/cm) (<i>not less than or equivalent</i>):
MTF0: 15.4
MTF4: 14.2
MTF10: 13.5
MTF50: 10.1
Longitudinal (z -axis) spatial resolution for sharpest clinical algorithm (lp/cm) (<i>not less than or equivalent</i>):
MTF4: 14.2
MTF10: 12.2
MTF50: 7.3

		Contrast resolution: smallest rod size discernable (in plane) (mm): 3...5 Scanner settings for std body scan, used for quoting CTDI 100 values: 120kVp 260...350mA Scanner settings for std head scan, used for quoting CTDI 100 values: 120kVp 260...440mA Workstation with all necessary equipment and software: availability Input device: monitor, keyboard, mouse Number of monitor: not less than 2 Display: LCD type not less than 19" Main computers: availability Reconstructor: availability Max.no. of slices displayed at once: up to 32 Storage (at scanner): availability Image archive: availability Laser printer for CT scanner: availability Software CT angiography basic package: availability Brain perfusion software: availability Body perfusion software: availability Computer assisted reading (Lung): availability Computer assisted reading (Colon): availability Bone mineral densitometry: availability Dose modulation technique: availability Accessories: The set includes all the necessary additional devices (example: workstation, cover glass) , accessories to complete functioning of the equipment and safety accessories required for the protection of personnel Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
9	Blood components irradiation device	X-ray machine for the irradiation of donated blood System composed by an x ray shielded cabinet which includes an X ray cell with door and water or air cooled X ray generator. Controlled by an operator panel: availability The equipment has several applications in medical field, among which a specific application for the blood bags irradiation. The equipment includes an holding system for the bags which can be inserted in the cell on the dedicated motorized support which makes it rotate at a preset distance from the X ray source.	1

		Technical specification: Capacity: not less than 6bags x300ml or 3bagsx600ml The shaking of the tray during irradiation: availability The number of x-ray tube: 1 or more The anode voltage on the X-ray tube: discrete 150kV or not less 80...200kV The exposure time to the level of absorbed dose 25Gy – 30Gy: availability Light and sound signaling the end of irradiation: availability Air or water cooling: availability Ability to set and adjust the exposure time: availability Mode "start/stop" and possibility continue exposure after the stopping: availability Power Supply: 220V/50Hz Workstation with all necessary equipment and software: availability Accessories: The set includes all the necessary additional devices , accessories to complete functioning of the equipment and safety accessories required for the protection of personnel Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent)or Russian certificate of conformity	
10	Ultrasound (3 probes) with printer	Ultrasound System with 3 probes and printer. Applications: Abdominal, Obstetrical, Gynecological, Small Parts, Musculoskeletal, Vascular/ Peripheral Vascular, Urological, Pediatric Scanning methods: Electronic Convex: availability Electronic Linear: availability Electronic Micro Convex: availability Electronic Sector: availability Real Time 4D Volume Sweep: availability Operating modes (not less than this modes or analog modes) B-Mode: availability Coded Phase Inversion Harmonic Imaging M-Mode: availability Color M Mode: availability	1

Color Flow Mode (CFM): <i>availability</i>
Power Doppler Imaging (PDI): <i>availability</i>
Directional PDI: <i>availability</i>
PW Doppler with High PRF: <i>availability</i>
Anatomical M-Mode: <i>availability</i>
CW Doppler Mode: <i>availability</i>
3D/4D Volume Modes: <i>availability</i>
<i>Display modes</i>
Simultaneous Capability (<i>not less than this modes or analog modes</i>): B/PW, B/CFM, B/M, B + CFM/M, Real Time Triplex Mode (B + CFM), Dual B (B/B)
Selectable alternating modes (<i>not less than this modes or analog modes</i>): B/M, B/PW, B + CFM/M, B + CFM (PDI)/PW (CW), 3D-Mode, 3D-Mode Color, B/CW, B + CFM/CW, Multi-image split screen (quad screen), Live and/or frozen, B + B/CFM, PDI, PW/M, Independent CINE playback
Zoom: Write/Read/Pan
Colorized Image: <i>availability</i>
<i>Measurement & Analysis or analog measurement & analysis mode:</i>
<i>On B-mode</i>
Distance Area and Circumference by ellipse and trace Angle Volume (Volume, Volume Biplane, Slice Volume) Stenotic rate (%STENO DIST, %STENO Area-T) Ratio (Ratio Dist, Ratio Area-T, Ratio Ellipse) Histogram (Hist.Box, Hist.Trace) Hip joint angle.
<i>On M-mode image</i>
Velocity Time interval Distance (amplitude) Heart rate Stenotic rate (%STENO Length)
Obstetrical Measurements
Gynecological Measurements
Cardiac Measurements
<i>On B-mode image</i>
Left ventricle function ;B Pombo B(Wall) Pombo B Teichholz B(Wall) Teicholz B Gibson B(Wall) Gibson Single Plane Ellipse,Biplane Ellipse, Simpson, Modified Simpson Bullet, BLAX B(Wall), LAX B SAX, B APX
<i>On M-mode image</i>
Left ventricle function, M PomboM(Wall) Pombo, M Teichholz M(Wall) Teicholz, M Gibson M(Wall) Gibson, Mitral Valve -Aortic Valve, Tricuspid Valve, Pulmonary Valve. Peripheral Vessels (carotid artery) Measurements %Stenosis Area, %stenosis Distance
Maximum depth of field: <i>not less than 30 cm</i>
<i>Probe connectors:</i>
Active connectors: <i>not less than 3 connectors</i>
Viewing Monitor: <i>not less than 17” diagonal color LCD display</i>

	Touch screen LCD monitor on board operator keyboard: <i>not less than 8"</i>	
	Articulating monitor arm: <i>availability</i>	
	Probes – 3 probes	
	<i>Probe completeness (not less than presented probe or analog probe):</i>	
	Electronic Convex Sector: <i>approx 3 ... 10Mhz</i>	
	Electronic Linear: <i>approx 1.7 ... 4Mhz</i>	
	Electronic Phased Array Sector: <i>approx 2.5 ... 7Mhz</i>	
	Optional support of 4D volume probes: <i>availability</i>	
	Power Requirements: 220V / 50 Hz.	
	<i>Accessories:</i>	
	Ultrasound gel - 1bottle, printer - 1pc, paper for printer -2rol	
	The set includes all the necessary additional devices and accessories to complete functioning of the equipment	
	<i>Standards:</i>	
	Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	

All goods and materials to be incorporated in the goods will be new, unused, and of the most recent or current model.

<i>N</i>	<i>NAME</i>	<i>TECHNICAL SPECIFICATION</i>	<i>QUANTITY</i>
		<i>"Center of Hematology named after R.H. Yeolyan" CJSC Laboratory equipment- Lot 2</i>	
1	Hematological analyzer	Automated hematology analyzer (not less than 44 diagnostics parameters) Cyanide-free SLS hemoglobin method or analog Upgrade parameters and modules: <i>availability</i> Modes: <i>Whole blood mode, Capillary whole blood mode, body fluid mode, Low blood count mode.</i> Rerun and reflex mode: <i>availability</i> Throughput: <i>not less than 80 samples per hour</i> Aspiration volume not more than: <i>88...175 µl whole blood, 88...300 µl body fluid</i> Sample modes: <i>closed and opened tube</i> User's interface: <i>touch screen</i> Storage for: <i>not less than 100,000 sample results (including histograms and scattergrams)</i> Flags: <i>Pathological flags (programmable), Lab Limits (programmable) and Reagents alert</i> Logs: <i>System Status, Reagents monitoring, Calibration</i> Quality control: <i>availability of internal and external quality control</i> Whole blood diagnostics parameters or equivalent: <i>WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT, NRBC#, NRBC%, NEUT#, LYMPH#, MONO#, EO#, BASO#, NEUT%, LYMPH%, MONO%, EO%, BASO%, IG#, IG%, RET%, RET#, IRF#%, LFR#%, MFR#%, HFR#%, RET-He, PLT-O.</i> Body fluid Diagnostics parameters: <i>not less than WBC-BF, RBC-BF, MN#, PMN#, MN%, PMN%, TC-BF#</i> Research parameters: <i>not less than TNC-N, TNC-D, WBC-D, HFLC#/%, BA-D#/%, RBC-O, FRC#/%, RET-TNC, RBC-He, Delta-He.</i> <i>Accessories</i> Computer, laser printer - 1pc, keyboard - 1pc, mouse-1pc: <i>availability</i> Reagents for 1000 analysis Bar code scanner : <i>availability</i> Power Supply: 220V/50Hz. Standards	1

		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
2	Automatic Chemistry Analyzer	<p>Fully automatic Chemistry Analyzer</p> <p>Fully automatic, random access chemistry analyzer, Electrolytes</p> <p>Detection: Photometry, Turbidometry, Potentiometric</p> <p>Throughput: not less than 300 test / hour</p> <p>ISE Module: availability</p> <p>Measure: K⁺, Na⁺, Cl⁻</p> <p>Parameters:</p> <p>Not less than 105 photometric or equivalent: including, 3 ISE tests and 3 serum index. Albumin (BCP+BCG) ACP, a1-Acid Glycoprotein, Ammonia, ALP, a1-Antitrypsin, Bicarbonate ALT, a1-Microglobulin, Bilirubin-direct, Amylase-tot., b2-Microglobulin, Bilirubin-total Amylase-pancr, Albumin (immuno.), Calcium, AST, APO, Cholesterol, AT3, Cholinesterase,APO B, HDL Cholesterol Cholinesterase, ASLO, LDL Cholesterol, Cholinesterase Dibucain C3c ,Creatinine enz. ,CK ,C4 ,Creatinine Jaffé, CK-MB, Ceruloplasmin, Fructosamine, GGT, CRP, Glucose, GLDH, CRP High Sensitivity, Iron, HBDH, Cystatin C, Lactate, LDH, Ferritin Magnesium, Lipase, Haptoglobin, Phosphorus HbA1c (whole blood + hemolysate), Total Protein, Homocysteine, Total Protein U / CSF, Electrolytes (ISE), IgA, IgACSF, IgGCSF, Triglycerides, Chloride, IgG, Triglycerides, GB, Potassium, IgM, UIBC, Sodium, Kappa and Light chains, Urea / BUN, Uric Acid, Lipoprotein (a) Myoglobin, Prealbumin, RF, Soluble Transferrin Receptor, Transferrin, Amphetamines, Acetaminophen, D-Dimer, Barbiturates, Amikacin, Anti-Thrombin III, Benzodiazepines, Carbamazepine, Cannabinoids, Digitoxin, Cocaine, Digoxin, LSD1, Gentamicin, Ethanol, Lidocaine, Methadone Lithium, Methadone Methabolite (EDDP), MPA-T, Methaqualone, NAPA Opiates, Phenobarbital, Oxycodone, Phenytoin, Phencyclidine, Procainamide, Propoxyphene, Quinidine1, Salicylate, Theophylline, Tobramycin, Valproic Acid,Vancomycin</p> <p>Reagent: barcoded,ready to use reagents: not less than 40 positions for reagents</p> <p>Sample tray: not less than 80 positions for samples</p> <p>Refrigerator (2-10C): availability</p> <p>Mixing System: ultrasonic or equivalent</p> <p>Cuvettes: washable</p> <p>Water consumption:not more than 40 L/h</p> <p>Light Source: Tungsten-halogen lamp</p> <p>Wavelength Range: 0.0000-3.0000 absorbance</p> <p>Automatic by 12-position filter wheel</p>	1

		<p>Optical filter: <i>not less than 12 wavelengths in the range 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700, 800 nm</i></p> <p>Calibration: lot specific</p> <p>Reagents preparation: ready to use</p> <p>Rerun and Reflexmode: availability</p> <p>Teleservice: availability</p> <p>Accessories: Computer , monitor and necessary software</p> <p>Laser printer, data station (application)</p> <p>Micropipettors:</p> <p>Volume: 2-20uL, Increments: 2 µL, Error not more than 2.5% – 2pcs.</p> <p>Volume: 20-200uL, Increments: 2 µL, Error not more than 2.5% – 2pcs</p> <p>Volume: 100-1000uL, Increments: 2 µL, Error not more than 2.5% – 2 pcs</p> <p>Holder for not less than 7 micropipettes - 1pc</p> <p>Accessories</p> <p>Reagents for start up and demonstration <i>not less than 10 different most common kit</i></p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
3	Critical Care Analyzer	<p>Critical Care Analyzer</p> <p>Blood Gas/Electrolyte/Metabolite: <i>not less than pH, PCO2, PO2, Hct, Na, K, Cl, iCa, Glu, La, Urea</i></p> <p>Acceptable Samples: <i>Whole blood (heparinized), arterial, venous, capillary, serum, plasma</i> Whole blood, Serum, Plasma, Dialysate, QC material</p> <p>Sample Volume: <i>Blood Gas/Electrolyte/Metabolite: not more 150...200 ul</i></p> <p>Calculated Parameters: <i>not less than or equivalent H+, cHCO3-, ctCO2(P), FO2Hb, BE, BEecf, BB, SO2, P50, ctO2, ctCO2(B), pHst, cHCO3-st, PAO2, AaDO2, a/AO2, avDO2, RI, Shunt, nCa2+, AG, pHt, H+t, PCO2t, PO2t, PAO2t, AaDO2t, a/AO2t, RI, Hct(c), MCHC, BO2, BEact, Osmolality, OER, Heart minute volume (Qt), P/F Index</i></p> <p>Throughput: <i>not less than 25 Samples/Hour</i></p> <p>Period for the storage of the reagents (at room temperature) shall be: <i>not less than 12 months</i>. Expiry date should be calculated starting from the date of the first day of the shipment.</p> <p>Accessories</p> <p>Reagents for start up and demonstration</p>	1

		Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
4	Coagulometer automatic	Fully automatic coagulation analyzer Coagulometer with: <i>not less than 3 detection methods clotting` (mechanical or analog), immunology and chromogenic</i> Tests performed: <i>not less than or equivalent: PT, APTT, Fibrinogen, Thrombin time, II, V, VII, VIII, IX, X, XI, XII, Anti-Xa (Rivaroxaban, Apixapan, UH, LMWH), D-Dimer, Fibrin monomer, AT3, protein S, protein C, Lupus anticoagulant, VWF, plasminogen, TAFI, Antiplasmin, Anti IIa, Activated protein C resistance</i> Temperature regulated: $37^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ Automated test calculation following the addition of reagent. Pre-calibration test: <i>availability</i> Capability to store calibration curves, presenting results in different units: <i>second, %, ratio, g/l or mg/ml, INR</i> Throughput: <i>not less than PT - 120/per hour, APTT and PT - 80/per hour</i> Random loading of samples, STAT mode: <i>availability</i> Sample positions: <i>not less than 50</i> Barcoded samples: <i>availability</i> Reagents positions: <i>not less than 36, cooled 18 C, not less than 3 stirring position</i> Barcoded reagents: <i>availability</i> programmable parameters: <i>availability</i> Cuvettes: <i>not less than 400 cuvettes</i> RS 232 interface for transferring results to PC or other port for transferring results to PC Power supply: 220V/50Hz. Accessories: External printer Reagents for start up and demonstration <i>not less than 3 different most common kit</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to	1

		93/42/EEC (or equivalent).	
5	Urinalysis System	Automatic urine colour determination Built-in printer: <i>availability</i> Memory capacity: <i>not less than 100 results</i> Interface ports for connection to PC: <i>availability</i> Results based upon test strips Ascorbic Acid interference : <i>not less than 400 mg/L</i> Power Supply: 220V/50Hz. Accessories: Strips: 100 pcs Calibration: 1 box Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	2
6	Autoclave (horizontal)	Autoclave horizontal Capacity: <i>not less than 150L</i> Type: <i>Front loading Horizontal autoclave</i> Sterilization Type: <i>for liquid, solid and dry type of materials</i> Temperature: <i>105...136°C, deviation not more than 2°C</i> Working pressure: <i>0,23 MPa, deviation not more than 1%</i> Sterilization timer: <i>not less than 60min</i> Water system: Automatic water fill with water softener in the system: <i>availability</i> Drain system: vacuum pump should offer a complete air exhaust from the chamber, allowing through sterilization and fine dry effect Chamber material: 304 Stainless Steel Temperature indication: <i>on LCD display</i> Air removal system: Vacuum air removal: <i>availability,</i>	2

		<p>Vacuum limit: <i>-0,080MPa, deviation not more than 10%</i></p> <p>Standard features of the controller:</p> <p>cycle record provides a hard copy (print chart) and data display for the operation status: <i>availability</i></p> <p>The whole process should be under the control of high-reliable micro-computer, the parameters should be automatically recorded actual process during operation should be controlled user friendly, precise, modular, reliable, easy to maintain</p> <p>Different number of programs during setting: <i>availability</i></p> <p>Display type:</p> <p>LCD display should constantly update the status of sterilization process</p> <p>Indications at the display:</p> <p>set point of time and temperature: <i>availability</i></p> <p>actual temperature: <i>availability</i></p> <p>low water level: <i>availability</i></p> <p>door open: <i>availability</i></p> <p>Fault indication</p> <p>fault thermocouple: <i>availability</i></p> <p>cycle fail: <i>availability</i></p> <p>temperature and pressure sensors: <i>availability</i></p> <p>Power: 380V, 50Hz, <i>not more than 6400W</i></p> <p>Accessories:</p> <p>Equipment with printer to print time,date and process parameters</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
7	Autoclave Table-Top	<p>Autoclave horizontal</p> <p>Capacity: <i>not less than 45L</i></p> <p>Type: <i>benchtop autoclave</i></p> <p>Sterilization Type: <i>for liquid, solid and dry type of materials</i></p> <p>Temperature range: <i>105...136°C, deviation not more than 2°C</i></p>	2

		<p>Design Pressure: -0.1/0.3MPa</p> <p>Chamber material: Stainless steel</p> <p>Multiple program types: not less than packed items, unpacked items, custom program, rapid program, BD testing program, vacuum testing program, preheat program and drying program.</p> <p>Accessories:</p> <p>2 levels of shelves</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Power supply: 220V/ 50Hz not more than 3.8KW</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
8	Hot air sterilizer	<p>Hot air sterilizer (Hi-temp oven)</p> <p>Capacity: not less than 125 L</p> <p>Temperature range: ambient +5 ... 300°C, accuracy 1°C. deviation not more than 1%</p> <p>Display: LED digital display</p> <p>Controller: PID multi-function controller</p> <p>Timer: 1-9999min</p> <p>Hot air circulation: blower with fan</p> <p>Adjustable shelves: not less than 2</p> <p>Safety:</p> <p>Over heat protector, over current & leakage breaker</p> <p>Power supply: 220V/ 50Hz</p> <p>Accessories:</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	8
9	Incubator	Incubator	8

		Capacity: <i>not less than 80L</i>	
		Temperature range: <i>ambient +5 ... 65°C, accuracy 0.1°C</i>	
		Display: <i>LED digital display</i>	
		Controller: <i>microprocessor PID multi-function controller</i>	
		Timer: <i>not less than 99hr (continuous selectable)</i>	
		Circulation: <i>forced convected air circulation</i>	
		Adjustable shelves: <i>not less than 2</i>	
		Safety:	
		over temp cut off , over current breaker	
		Power: 220V, 50Hz	
		Accessories:	
		The set includes all the necessary additional devices and accessories to complete functioning of the equipment	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
10	Microscope Binocular	Binocular Microscope with Achromatic Objectives	10
		Quadruple revolving nosepiece.	
		Binocular Head: <i>Binocular Head, 360° rotating, 30° Inclined, with dioptric compensation</i>	
		Interpupillary Distance: <i>48 ...75 mm, deviation not more than 10%</i>	
		Objectives (not less than the following):	
		with 160 mm mechanical tube, <i>deviation not more than 10%</i>	
		Achromatic DIN 4X, A.N. 0.10, W.D. 18 mm	
		Achromatic DIN 10X, A.N. 0.25, W.D. 7 mm	
		Achromatic DIN 40X, A.N. 0.65, W.D. 0,53 mm	
		Achromatic DIN 100X, A.N. 1,25, W.D. 0,13 mm (oil immersion)	
		All objectives should be treated with an anti-fungus treatment.	
		Eyepiece: <i>Wide Field Eyepiece WF 10X/18</i>	
		Field number: <i>18, deviation nor more than 1%</i>	
		Focusing: <i>Coaxial Coarse and Fine Adjustment, Moving Range 20mm, Fine Division 0.002 mm</i>	
		Condenser: <i>Abbe Condenser, NA=1.25</i>	

		<p>Stage: <i>Double Layers Mechanical Stage X/Y: not less than 125mm×115mm, Moving Range not less than 75×30mm specimen holder for one slide</i></p> <p>Vernier scale on the two axes, accuracy 0.1 mm</p> <p>Illumination:</p> <p>Light source type X-LED with white LED</p> <p>Light intensity control using a knob on left side of the frame</p> <p>LED power: <i>3W, deviation not more than 10%</i></p> <p>Color temperature: <i>6300K, deviation not more than 10%</i></p> <p>LED average life time: <i>50.000h., deviation not more than 10%</i></p> <p>Voltage: external power supply: <i>100/240Vac, 50/60Hz, output: 6 V</i></p> <p>Max power required: <i>7W</i></p> <p>Observation Mode: <i>Brightfield</i></p> <p>Accessories:</p> <p>Dust cover, immersion oil and instruction manual included.</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
11	Water Bath	<p>Water bath</p> <p>Capacity: <i>not less than 8 L</i></p> <p>Range Ambient: <i>+5°C ... 100°C, deviation not more than 10%</i></p> <p>Temperature Accuracy: <i>0.5°C, deviation not more than 10%</i></p> <p>High precision temperature control: <i>availability</i></p> <p>Digital display with high brightness: <i>availability</i></p> <p>Bath material: <i>transparent acrylic sheet or analog</i></p> <p>Chamber size: <i>280×220×150mm, deviation not more than 10%</i></p> <p>Power Requirements: <i>220V/50 Hz., 800 W</i></p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	10
12	Table Top Centrifuge	Universal bench top Centrifuge without rotor	8

	30x15ml	Metal housing: <i>availability</i>	
		Metal lid: <i>availability</i>	
		Stainless steel centrifuging chamber: <i>availability</i>	
		Viewing port in the lid: <i>availability</i>	
		Powered lid-locking: <i>availability</i>	
		Quick-entry foil keypad: <i>availability</i>	
		Exchangeable rotors: <i>availability</i>	
		99 programmable memories: <i>availability</i>	
		RCF (entry in increments of 10): <i>availability</i>	
		RPM (entry in increments of 10): <i>availability</i>	
		t/min (entry of the centrifuging time in hours and minutes (max. 99 h and 59 min): <i>availability</i>	
		Entry of the acceleration rate 10: <i>availability</i>	
		Entry of the braking rate 10 : <i>availability</i>	
		max. RCF: <i>not less than 23545g</i>	
		max. RPM: <i>not less than 18000 rpm</i>	
		max. capacity: <i>4x100 ml</i>	
		EN / IEC 61010 and 61010-2 standard: <i>availability</i>	
		Power: 220V/50Hz	
		<i>Angle rotor for universal centrifuge should include not less than 30 positions for 15ml tube</i>	
		Rotor specification:	
		max. RCF: <i>not less than 2829/2467 xg</i>	
		max. RPM: <i>not less than 4500min⁻¹</i>	
		Capacity: 30x15ml	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
13	Table Top Centrifuge 12x15ml	Universal bench top Centrifuges with rotor	9
		Metal housing: <i>availability</i>	
		Metal lid: <i>availability</i>	
		Stainless steel centrifuging chamber: <i>availability</i>	
		Viewing port in the lid: <i>availability</i>	
		Powered lid-locking: <i>availability</i>	

		Quick-entry foil keypad: <i>availability</i> Exchangeable rotors: <i>availability</i> 99 programmable memories: <i>availability</i> RCF (entry in increments of 50/10): <i>availability</i> RPM (entry in increments of 50/10): <i>availability</i> t/min (entry of the centrifuging time in hours and minutes (max. 99 h and 59 min): <i>availability</i> Entry of the acceleration rate 10: <i>availability</i> Entry of the braking rate 10: <i>availability</i> max. RCF: <i>not less than 4427 x g</i> max. RPM: <i>not less than 6000 min⁻¹</i> max. capacity: <i>12x15 ml</i> EN / IEC 61010 and 61010-2 standard: <i>availability</i> Power: 220V/50Hz <i>Not less than 12 place angle rotor for universal centrifuge for 15 ml tubes</i> <i>Rotor specification:</i> max. RCF: <i>not less than 4427 x g</i> max. RPM: <i>not less than 6000 min⁻¹</i> Capacity: <i>12x15ml</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
14	Table Top Centrifuge 6x30ml	Universal bench top Centrifuges with out rotor Metal housing: <i>availability</i> Metal lid: <i>availability</i> Stainless steel centrifuging chamber: <i>availability</i> Viewing port in the lid: <i>availability</i> Powered lid-locking: <i>availability</i> Quick-entry foil keypad: <i>availability</i> Exchangeable rotors: <i>availability</i> RCF (entry in increments of 50/10): <i>availability</i> RPM (entry in increments of 50/10): <i>availability</i> t/min (entry of the centrifuging time in hours and minutes (max. 99 h and 59 min): <i>availability</i>	1

		Entry of the acceleration rate 10: <i>availability</i> Entry of the braking rate 10: <i>availability</i> max. RCF: <i>not less than 4427 x g</i> max. RPM: <i>not less than 6000 min⁻¹</i> max. capacity: <i>6x50ml</i> EN / IEC 61010 and 61010-2 standard: <i>availability</i> Power: 220V/50Hz <i>Not less than 6 place angle rotor for universal centrifuge should include necessary adapter for 30 ml tube</i> Rotor specification: max. RCF: <i>not less than 9000g</i> max. RPM: <i>not less than 9000min⁻¹</i> Capacity: <i>6x30ml</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
15	Table Top Centrifuge 24x2.0 ml	Universal bench top Centrifuges without rotor Metal housing: <i>availability</i> Metal lid: <i>availability</i> Stainless steel centrifuging chamber: <i>availability</i> Viewing port in the lid: <i>availability</i> Powered lid-locking: <i>availability</i> Quick-entry foil keypad: <i>availability</i> Exchangeable rotors: <i>availability</i> Storage of up to 99 runs: <i>availability</i> RCF (entry in increments of 10): <i>availability</i> RPM (entry in increments of 10): <i>availability</i> t/min (entry of the centrifuging time in hours and minutes (max. 99 h and 59 min): <i>availability</i> Entry of the acceleration rate 10: <i>availability</i> Entry of the braking rate 10: <i>availability</i> max. RCF: <i>not less than 21380g</i>	1

		max. RPM: <i>not less than 15000min⁻¹</i> max. capacity: 44 x 1.5/2 ml EN / IEC 61010 and 61010-2 standard: <i>availability</i> Power: 220V/50Hz <i>Not less than 24 place angle rotor with autoclavable lid for universal centrifuge for PCR tube should include necessary adapters for 0.2 and 0.5 ml</i> Rotor specification: max. RCF: <i>not less than 21380g</i> max. RPM: <i>not less than 15000min⁻¹</i> Capacity: <i>24x2.0ml</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
16	/ Blood Cell Counter with windows	Blood Cell Counter with windows ABS outer shall should be resistant to collision Reset know for easy clearing of figures Windows: <i>not less than 9</i> Digit range per window: <i>0 - 999</i> Totaliser window: <i>availability</i> Bell sound when the totalizer window reaches 100's: <i>availability</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	10
17	Water Still 12L/H	Water still must remove most dissolved solids and pyrogens from tap water or pretreated water. Water Still features a thermostat and a water level switch provides automatic operation. Protect from over-heating by cut-off when feed water interrupted. Distillate withdrawal through drain cock. Condenser (cooling coil) inside the storage tank, easily exchangeable CO2 degassing through outlet in the condenser. The stainless steel double-walled chamber saves electricity. Capacity: <i>not less than 12l/h</i>	4

		Conductivity: <i>2.3 µs/cm at 25 °C, deviation not more than 10%</i> Distillation typ: <i>Single</i> Material: <i>Stainless Steel</i> Operation: <i>Fully automatic</i> Storage Tank Capacity: <i>not less than 24L</i> Cooling water requirement: <i>not more than 200 L/H</i> Safety Device: Water level float switch: <i>availability</i> Over temp. thermostat: <i>availability</i> Water supply cut-off valve: <i>availability</i> Electrical connection: <i>380V, 50Hz , not more than 9.0 kW</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
18	Pure Water System 40L/H	Convert tap water into reverse osmosis (RO) water with integrated 100L storage. Capacity: <i>not less than 40L/H</i> Integrated 100L reservoir: <i>availability</i> Bacterial Content: <i>99%</i> Feedwater Connector: <i>3/4 in. NPT</i> Operating Pressure: <i>2...6 Bar</i> Feed Water Monitoring: <i>availability</i> Feedwater Pressure: <i>1...6 Bar</i> Feedwater Source: <i>tap</i> Particles >0.2µM/mL: <i><1 µM/mL</i> Permeate performance: <i>not less than 40 L/hr. at 10°C</i> Silica Removal: <i>not less than 98%</i> Temperature Range: <i>2° to 35°C, deviation not more than 10%</i> Electrical Requirements: <i>220V, 50Hz</i> An ultra-modern microprocessor: <i>availability</i> Back-lit Control panel for displaying the resistivity and conductivity: <i>availability</i>	1

		<p>Completely drainable integrated 100L high-purity water reservoir has a low-noise pressure booster as a standard component: <i>availability</i></p> <p>A built-in pretreatment unit — consisting of a hardness stabilizer for protection of the reverse osmosis module from hardness formers and an activated carbon/5µm combi-cartridge — protects the system against free chlorine and particles, ensuring the long service life of downstream purification stages: <i>availability</i></p> <p>Replacement cartridges: <i>not less than 2 set</i></p> <p>Accessories:</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
19	Automatic instrument for the determination of the ESR	<p>Automatic analyzer the determination of the ESR</p> <p>ESR - Erythrocyte Sedimentation Rate</p> <p>up to 10 samples</p> <p>Infrared optical detection technology</p> <p>Automatically scanning blood cells and location of the plasma interface from time to time with accurate positioning</p> <p>Automatically amending the ESR results under the detecting temperature (15°C ~ 32°C) to the ESR values at 18°C, closely - related with Westergren results</p> <p>The results should not be interfered by high levels of hemoglobin, bilirubin or triglyceride</p> <p>ESR curve display and print-out</p> <p>Random access mode: <i>availability</i></p> <p>Internal thermal printer: <i>availabilty</i></p> <p>Measuring time: <i>not more than 30 minutes</i></p> <p>Measuring precision: <i>not more than 0.2 mm</i></p> <p>Reproducibility: <i>not more than 3%</i></p> <p>Temperature Precision: <i>not more than 0.3°C</i></p> <p>Sample volume: <i>not more than 1.6mL whole blood anticoagulant</i></p> <p>Reading channel: <i>not less than 10</i></p> <p>Display: <i>LCD</i></p> <p>Interface: <i>RS-232 serial port</i></p> <p>Accessories</p> <p>Reagents for start up and demonstration</p>	1

		Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
20	Fume Hood	Fume hood Face air velocity: <i>0,3...0,8 m/s deviation not more than 0,1 m/s</i> Air speed control: <i>availability</i> Blowers: <i>built-in centrifugal blowers</i> Speed: <i>adjustable with 6...9 levels</i> Fluorescent lamp: <i>36W, deviation not more than 10%</i> UV Lamp: <i>availability</i> Material Exterior Body: <i>Cold-rolled steel with antibacterial powder coating</i> Work table: <i>Solid chemical-resistant physiochemical board</i> Controller: Air velocity and monitoring, automatic air velocity control: <i>availability</i> Light with safety cover: <i>availability</i> Utilities: Water faucet: <i>availability</i> Water sink: <i>availability</i> Gas cock: <i>availability</i> Base stand: <i>availability</i> UV Lamp: <i>not less than 1</i> Exhaust duct: <i>4 meters</i> Power port: <i>availability</i> Active carbon filter: <i>availability</i> Foot switch: <i>availability</i> Noise level: <i>not more than 60dB</i> Door: Front glass window: <i>Motorized; 5 mm toughened glass (deviation not more than 10%), anti-ultraviolet radiation</i> Power 220V	11

		Floor standing: <i>availability</i>	
		Accessories:	
		The set includes all the necessary additional devices and accessories to complete functioning of the equipment	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
21	Trinocular microscope with photcamera	<i>Trinocular microscope with not less than 5MP camera</i> Quintuple revolving nosepiece, rotation on ball bearings Head: <i>trinocular observation head, inclined 30° and rotatable 360°</i> Diopter adjustment: <i>on left eyepiece</i> Interpupillary adjustment: <i>55-75 mm, deviation not more than 10%</i> Eyepieces: <i>wide field - WF10x/22</i> Field number: <i>22, deviation not more than 10%</i> <i>Optical system:</i> Infinity corrected optical system (IOS) Plan-achromatic or plan semi achromatic IOS 4x, A.N. 0.10, W.D. 4,7 mm Plan-achromatic or plan semi achromatic IOS 10X, A.N. 0.25, W.D. 4,1 mm Plan-achromatic or plan semi achromatic IOS 40X, A.N. 0.65, W.D. 0,50 mm Plan-achromatic or plan semi achromatic IOS 100X, A.N. 1,25, W.D. 0,08 mm (oil immersion) All objectives should be treated with an anti-fungus treatment. Condenser: <i>swing-out type, N.A.0.9 with centering system</i> <i>Illumination:</i> Light source with white LED Light intensity control using a knob LED power: <i>3W, deviation not more than 10%</i> Color temperature: <i>6300K, deviation not more than 10%</i> LED average life time: <i>50.000h., deviation not more than 10%</i> The light exit can be used as a filter holder for additional filters (blue, yellow, frosted) Voltage: <i>110/230Vac, 50/60Hz, 0,4/0,8A</i> Fuse: <i>T3.15A 250V</i> Max power required: <i>7W</i>	2

		Observation mode: <i>bright field</i>
		Focusing:
		Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) with upper stop, to prevent the contact between objective and specimen.
		Adjustable tension of coarse focusing knob
		Stage:
		Double layer with mechanical sliding stage, size <i>175x145mm, deviation not more than 10%</i> , X-Y movement range <i>76x52mm, deviation not more than 10%</i> , specimen holder for two slides
		Vernier scale on the two axes, accuracy 0,1 mm.
		Accessories:
		Dust cover, Instruction Manual
		Camera Specs:
		Resolution: not less than <i>5 MP</i>
		Signal output: <i>USB2.0</i>
		Sensor technology: <i>CMOS</i>
		Full Image size: <i>not less than 2592 x 1944</i>
		Pixel size: <i>2,2 x 2,2 micron, deviation not more than 10%</i>
		C-Mount connection: <i>availability</i>
		Optical adapters: <i>0,45x (for 23mm eyepiece tube)</i>
		Adapters for Binocular & Monocular microscopes: <i>30 and 30,5 mm diameter</i>
		Calibration Slide: <i>availability</i>
		Accessories:
		not less than 1.8 m USB cable, Installation Manual, CD rom
		Software specs
		System requirements: <i>Windows XP / Vista / win7 / win8 / 32-64 bit / usb 2.0</i>
		Capture features: <i>Continuous auto white balance, continuous auto exposure, image size, image capture, compressed video capture</i>
		Control parameters: <i>Image size, brightness, gain, exposur time, colors, monochrome, color enhancement, flip, speed</i>
		Standards:
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).

22	Analyzer of blood group and rhesus	<p>Analyzer of blood group and rhesus</p> <p>Test menu</p> <p>ABO: <i>availability</i></p> <p>D: <i>availability</i></p> <p>Antibody screen: <i>not less than 3-cell</i></p> <p>Antigen typing: <i>not less than phenotyping and rare antigen typing</i></p> <p>Other testing: <i>not less than D, DAT</i></p> <p>IgG crossmatch: <i>availability</i></p> <p>ABO/D unit confirmation: <i>availability</i></p> <p>Platform:</p> <p>Floor or Benchtop: <i>availability</i></p> <p>Fully automated: <i>availability</i></p> <p>Specimen</p> <p>Specimen type: <i>not less than EDTA, heparin</i></p> <p>Specimen size:</p> <p>Diameter: <i>12...16mm, deviation not more than 10%</i></p> <p>Length: <i>75...100mm, deviation not more than 10%</i></p> <p>Sample capacity: <i>not less than 12 per run</i></p> <p>Continuous load of samples: <i>availability</i></p> <p>Sample barcodes not less than: <i>Codebar, Code 128, Code 39, Interleaved 2 of 5 or equivalent</i></p> <p>Turnaround time</p> <p>Time for first ABO/D: <i>not more than 35 min</i></p> <p>Time for antibody screen: <i>not more than 30 min</i></p> <p>Specimens/hour: <i>variable, dependent on number of samples and test mix</i></p> <p>Low level alarm for system liquid: <i>availability</i></p> <p>Stat time: <i>Variable or same function</i></p> <p>Centrifuge</p> <p>Maximum centrifugation speed: <i>not less than 512 x g</i></p> <p>Reader Operation: Color Image Analysis</p> <p>Interface</p> <p>Unidirectional interface to LIS: <i>availability</i></p> <p>Bidirectional interfaces to LIS: <i>availability</i></p> <p>Quality controls: <i>availability</i></p>	1
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		<p>Accessories:</p> <p>All necessary reagents and consumables for 200 test</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
23	Automatic apparatus for electrophoresis with immunofixation	<p>Automatic apparatus for electrophoresis with immunofixation</p> <p>The system is intended for performing agarose gel electrophoresis for the separation, detection and confirmation of paraproteins in biochemistry laboratory</p> <p>General Requirements:</p> <p>The system shall be compact and table-top model in design.</p> <p>The system shall be a self-contained complete system using agarose gel electrophoresis method.</p> <p>The system shall be automated to carry out all the different phases of electrophoresis testing including sample application, migration, incubation, staining, de-staining, washing and drying.</p> <p>The system shall include scan option that allows for high resolution image capture and quantification of a gel in not more than 1 minute</p> <p>The system shall be designed for efficiency that can be migrating, staining or scanning the gel simultaneously.</p> <p>The system shall be flexible with various gel configurations to accommodate a wide range of sample volumes i.e. the system can adapt to any size and any type of workload from low to high workloads.</p> <p>The system shall be capable of utilizing patented methodologies for sample and antisera application, assay resolution and sensitivity are greatly enhanced.</p> <p>The system shall enable the laboratory to rapidly perform agarose gel electrophoresis,e.g. for the following:</p> <p>Serum Protein Electrophoresis: availability</p> <p>Urine Protein Electrophoresis: availability</p> <p>Serum Immunofixation Electrophoresis: availability</p> <p>Urine Immunofixation Electrophoresis: availability</p> <p>Scanning Densitometry: availability</p> <p>The system shall be ergonomic, easy to use with the system functions controlled through an touch-screen.</p> <p>The unit shall be equipped with automatic self-diagnostic program upon start-up, which shall detect and clearly indicate any defects or malfunction.</p> <p>The unit shall be designed for easy access to serviceable parts.</p>	1

		<p>The unit shall be easy to clean and disinfect as appropriate.</p> <p>The unit shall be designed to permit future extension or upgrades, both hardware and software, to more advanced system and capabilities.</p> <p>Pre-programmed migration programs: <i>availability</i></p> <p>Thermal regulation (cooling and heating): <i>by Peltier effect</i></p> <p>Reading system</p> <p>Reading: <i>by transmission</i></p> <p>Automatic image position correction: <i>availability</i></p> <p>Correction of light source heterogeneity: <i>availability</i></p> <p>Software</p> <p>Automatic detection of the reading zone: <i>availability</i></p> <p>Automatic centering and alignment of the electrophoretic patterns: <i>availability</i></p> <p>Fractions identification: <i>availability</i></p> <p>Deletion of minima and fractions: <i>availability</i></p> <p>Baseline modification: <i>availability</i></p> <p>Quality Control program: <i>availability</i></p> <p>Recall and review of patient history: <i>availability</i></p> <p>Power: 220V/50hz</p> <p>Accessories:</p> <p>All necessary reagents and consumables for 200 test</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
24	Plasma thawing bath	<p>Plasma thawing bath</p> <p>Model: Tabletop</p> <p>Thawing of plasma at 37.0°C: <i>availability</i></p> <p>Temperature is controlled: <i>availability</i></p> <p>Equipment should be designed to safely and reliably thaw Fresh Frozen Plasma (FFP) for the recovery of cryoprecipitated Antihemophilic Factor (AHF): <i>availability</i></p> <p>Thawing temperature: 4.0°C, deviation not more than 10%</p> <p>Accuracy: not more than ±0.2°C</p>	8

		<p>Integrated pump for internal circulation: <i>availability</i></p> <p>Capacity: <i>not less than 15 bags</i></p> <p>Volume: <i>not less than 20 liters</i></p> <p>Power: 220V/50hz</p> <p>Accessories:</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
25	Blood components heater	<p>Blood components heater</p> <p>Providing fast and safe thawing and warming of blood components, blood substitutes and infusion solutions during the infusion and transfusion therapy</p> <p>The temperature of the blood components within hemocontainers continuously measured by the built-in infrared sensor, which prevents the risk of overheating of blood components.</p> <p>Temperature control: <i>availability</i></p> <p>Depending on the type of blood components, their volume hemocontainers can select standard mode or quick heating.</p> <p>In this case, the duration of the process is set using the device automatically.</p> <p>Built-in test allows for periodic testing device.</p> <p>When an error or malfunctions, audible and visual alarms are triggered.</p> <p>Protection class: I (EN 61010-1:1993, Appendix H)</p> <p>Accessories:</p> <p>Internal or external printer: <i>availability</i></p> <p>Paper for printer: <i>availability</i></p> <p>Tray: <i>availability</i></p> <p>Infusion warmer module: <i>availability</i></p> <p>Power: 220V/50hz</p> <p>Accessories:</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p>	8

		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
26	Apparatus for extracorporeal correction homeostasis	<p>Apparatus for extracorporeal correction homeostasis</p> <p>CRRT Therapy</p> <p>Hemodiafiltration (CVVHDF): <i>availability</i></p> <p>Pre AND/OR Post Dilution: <i>availability</i></p> <p>Hemofiltration (CVVH): <i>availability</i></p> <p>Pre AND/OR Post Dilution: <i>availability</i></p> <p>Hemodialysis (CVVHD): <i>availability</i></p> <p>Pre Dilution: <i>availability</i></p> <p>Slow Continuous Ultrafiltration (SCUF): <i>availability</i></p> <p>Advanced Therapy Capabilities</p> <p>Therapeutic Plasma Exchange (TPE): <i>availability</i></p> <p>Pre/Post Dilution Ratio Selection: <i>availability</i></p> <p>Real-Time TMP & Filter Pressure Drop Monitoring: <i>availability</i></p> <p>Flow Rate Ranges</p> <p>Blood: <i>450 ml/min, deviation not more than 10%</i></p> <p>Accuracy: <i>not more than 10%</i></p> <p>Replacement Solution</p> <p>CVVH, CVVHDF: <i>8.000 ml/hr, deviation not more than 10%</i></p> <p>TPE: <i>5.000 ml/hr, deviation not more than 10%</i></p> <p>Accuracy: <i>not more than 30ml/hr</i></p> <p>Dialysate: <i>8.000 ml/hr, deviation not more than 10%</i></p> <p>Accuracy: <i>not more than 30ml/hr</i></p> <p>Pre Blood Pump Solution/Anticoagulant</p> <p>CVVH, CVVHD, CVVHDF: <i>4.000 ml/hr, deviation not more than 10%</i></p> <p>SCUF: <i>2.000 ml/hr, deviation not more than 10%</i></p> <p>TPE: <i>1.000 ml/hr, deviation not more than 10%</i></p> <p>Accuracy: <i>not more than 30ml/hr</i></p> <p>Patient Fluid Removal</p> <p>Plasma Removal (TPE): <i>1.000 ml/hr, deviation not more than 10%</i></p> <p>Accuracy: <i>not more than 300 ml/24hr</i></p> <p>Effluent Flow Rate: <i>10.000 ml/hr, deviation not more than 10%</i></p>	1

	Syringe Volume (with “luer lock”): <i>10, 20, 30, 50 cc</i>	
	Delivery Accuracy (0-600 mmHg): <i>not more than 5%</i>	
	Safety Systems	
	Ultrasonic Air Detection: <i>single air bubble more than 20 µl resolution</i>	
	Automatic Closed-Circuit Air Removal: <i>availability</i>	
	Blood Leak Detector: <i>resolution more than 0.50 ml/min</i>	
	Integrated Bar Code Reader: <i>availability</i>	
	Battery Backup: <i>availability</i>	
	Anti-Electrostatic/ECG Interference: <i>availability</i>	
	Fluid Control	
	Gravimetric: <i>not less than 4 Retractable Scales</i>	
	Internal Treatment Memory: <i>availability</i>	
	External Treatment Memory: <i>availability</i>	
	ICU Central Monitoring External Data Ports	
	<i>not less than present: RJ-45 Ethernet PCMCIA Data Card Slot RS-232 Serial Remote Alarm Connection</i>	
	Display: <i>not less than 12"</i>	
	Touch Screen Setup & Control: <i>availability</i>	
	Electrical Safety IEC/EN 60601(-1/-1-2/-1-4), EN55011	
	International Conformity IEC/EN 60601(-1/-1-1/-1-2/-1-4/-2-16), CSA 601.1-M90/B-90, UL 60601-1	
	Electromagnetic Emissions EN 55011, IEC/EN 61000-3(-2/-3)	
	Electromagnetic Immunity IEC/EN 61000-4(-2/-3/-4/-5/-6/-8/-11)	
	Drip Proof IPX1, IEC 60529	
	Alarm System IEC/EN 60601-1-8	
	Fluid Accuracy ADQI Compliant	
	PDMS Connectivity: EMR Cerner Certification	
	Accessories:	
	The set includes all the necessary additional devices and accessories to complete functioning of the equipment	
	Power: 220V/50Hz	
	Standards:	

		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
27	Freezer	<p>Freezer</p> <p>Chest type: <i>availability</i></p> <p>Net Capacity: <i>not less than 240 L</i></p> <p>Temperature should be infinitely adjustable between -16°C and -25°C, deviation not more than 10%</p> <p>Structure: <i>completely in sheet steel white epoxy coated outside, and embossed aluminium inside.</i></p> <p>Insulation: <i>high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 100 mm, deviation not more than 10%. CFC-free</i></p> <p>Feet: <i>Qty- not less than 4</i></p> <p>Lid: <i>hinged. The lid should be fitted up with counterbalanced hinges, perimetric magnetic rubber gasket and security key locking</i></p> <p>Internal equipment: <i>Not less than 3 open wire baskets</i></p> <p>Internal lighting: <i>Not less than 1 bulb, with automatic activation at every lid opening through a special switch</i></p> <p>Control panel</p> <p>LED display and settings buttons: <i>Should show the actual internal temperature; Possibility to set the desired temperature within the freezer working range</i></p> <p>High temperature alarm: <i>visual and acoustic</i></p> <p>Lid open alarm: <i>acoustic</i></p> <p>Superfreezing button: <i>availability</i></p> <p>Cooling unit: <i>composed of a hermetically sealed compressor, a condenser, evaporating pipes. All the used components should be industrial grade.</i></p> <p>Defrosting: <i>manual, with discharging hole</i></p> <p>Refrigerant: <i>CFC- and HCFC-free</i></p> <p>Refrigeration: <i>static, with evaporating pipes throughout all the chamber in order to grant maximum temperature stability and uniformity</i></p> <p>Power: 220V, 50Hz</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	3

28	Laboratory freezer-refrigerator	<p>Laboratory freezer-refrigerator</p> <p>Upright type: <i>availability</i></p> <p>Net capacity:</p> <p>Refrigerator compartment: <i>not less than 300 L</i></p> <p>Freezer compartment: <i>not less than 300 L</i></p> <p>Temperature:</p> <p>Refrigerator compartment: <i>adjustable between 0°C / +15°C, deviation not more than 10%</i></p> <p>Freezer compartment: <i>adjustable between -5°C / -20°C, deviation not more than 10%</i></p> <p>Structure: <i>stainless steel 18/10 AISI 304 both in- and outside.</i></p> <p>Insulation: <i>high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 75 mm (deviation not more than 10%). CFC-free</i></p> <p>Feet: <i>Qty. - not less than 4, made in stainless steel 18/10 AISI 304, adjustable in height for levelling</i></p> <p>Insulated doors: <i>Qty - not less than 2, hinged, with removable magnetic rubber gasket. Doors should be equipped with a special switch that stops the internal ventilation at the door opening.</i></p> <p>Internal equipment: <i>Qty- not less than 4, (not less than 2 for each compartment), storage open wire shelves realized sheet steel with a strong plastic coating. The shelves should be mounted on special anti-tilt stainless steel slides.</i></p> <p>Shelf loading capability: <i>not less than 35 kg</i></p> <p>Internal lighting: <i>for the refrigerator compartment only; not less than 1 bulb</i></p> <p>Control panels:</p> <p>Separate control panels for each compartment: <i>Availability</i></p> <p>The control panels should be both microprocessor operating with LED display</p> <p>Digital temperature adjusting and displaying with an accuracy of not more than 0,1°C</p> <p>Keyboard buttons with locking protection, manually actively</p> <p>Visual and acoustic alarm signaling for: high and low temperature; door ajar, delayed to allow the standard operations; power failure; anti-freezing evaporator; sensors failure</p> <p>Muting facilities for the acoustic alarms with maintaining of the visual indication of the alarm condition: <i>Availability</i></p> <p>Alarms memory: <i>not less than for the last 10 alarm conditions</i></p> <p>Ntc type sensors for a high accuracy of the temperature control</p>	3
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		NO/NC contact to remote the alarm signals Cooling unit: <i>Qty - not less than 2, not less than one for each compartment, both top mounted, completely independent between them.</i> Refrigerant: <i>R404a CFC-free</i> Refrigeration (both compartments): <i>forced-air, through a fan</i> Defrosting (both compartments): <i>completely automatic, thermostat controlled.</i> Noise level (dB(A)): <i>not more than 52</i> Power: 220V, 50Hz <i>Standards:</i> Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
29	Apparatus for extracorporeal photochemotherapy	<i>Apparatus for extracorporeal photochemotherapy</i> Extracorporeal photochemotherapy (ECP) is based on the exposure of peripheral blood mononuclear cells to the photosensitizing agent (8-methoxypsoralen or 8-MOP) and UVA illumination. Mononuclear cells are harvested by cytapheeresis and reinfused to the patient after cell illumination. Cutaneous T-cell lymphoma (Sezary syndrome): <i>availability</i> GVHD (acute and chronic): <i>availability</i> Organ transplant rejection: <i>availability</i> Autoimmune disorders: <i>availability</i> UVA ILLUMINATION EVA BAG: <i>not less than 3L</i> Capacity: <i>1 bag/cycle</i> Light source: <i>2 x 3 UVA tubes</i> Delivered energy: <i>adjustable according haematocrit or customer procedure</i> Wave length: <i>315-400 nm</i> Detection of defective tubes: <i>availability</i> Cooling system: <i>Ventilation of illumination chamber by laminar air flow</i> Programmable temperature alarms: <i>availability</i> XUV bag mixing during illumination: <i>availability</i> Displayed data: <i>Light intensity, energy delivered, temperature graphs & indicator of advancement</i> XUV Bag ID: <i>ID patient code, product code, lot number</i> Alarms: <i>Flashing logo for operating status, no sound alarm</i>	1

		Report printing: <i>Energy, intensity and temperature records</i> Cycle record: <i>Up to 8000 illuminations files stored in the internal memory</i> Backup: <i>Transfer of illumination files by USB stick</i> Network connection: <i>TCP/IP protocol</i> Accessories: Start-up Reagents, bags and all necessary accessories Power: 220V/50Hz Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
30	Ozone Sterilizer	Ozone Sterilizer Elimination of airborne and surface contaminants and germs: <i>availability</i> Conversion of ozone to oxygen after sterilization cycle: <i>availability</i> The unit should be portable to fit in most standard laboratory cabinets such as cell culture incubators, air incubators, cell culture hoods and rooms, PCR hoods etc. Material: <i>Stainless steel</i> Programmable timed operation: <i>Availability</i> Ozone fan: <i>30 CFM, deviation not more than 10%</i> Ozone output: <i>not less than 2000 mg/H</i> De-ozonation fans: <i>not less than 2x120 cfm</i> Power: 220V/50Hz Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	1

All goods and materials to be incorporated in the goods will be new, unused, and of the most recent or current model.

<i>N</i>	<i>NAME</i>	<i>TECHNICAL SPECIFICATION</i>	<i>QUANTITY</i>
		<i>"Center of Hematology named after R.H. Yeolyan" CJSC Surgery and Hospital equipment- Lot 3</i>	
1	Video pediatric gastroscope and video colonofiberscope	<i>Video pediatric gastroscope and video colonofiberscope</i> VIDEO PROCESSOR AND LIGHT SOURCE Fully digital processor with resolution module <i>not less than 1280x1024</i> Single chip camera: <i>availability</i> Video output (<i>not less than or equivalent</i>): <i>DVI, RGB, CVBS</i> Function (not less than or equivalent): Automatic brightness control: <i>availability</i> High compatibility: <i>availability</i> Electronic magnification: <i>availability</i> ID function: <i>availability</i> Remote control: <i>availability</i> Compound band Imaging capabilities: <i>availability</i> Built in <i>not less than 150 W</i> xenon lamp Color temperature: <i>5000 ... 6000K</i> Compatible for both gastroscope and colonoscope Power: <i>220V/50Hz</i> Bulb life: <i>not less than 500hours</i> GASTROSCOPE Working length: <i>1030 ... 1050mm</i> Total length: <i>1330 ... 1350mm</i> Diameter of distal end: <i>not more than 8.1</i> Diameter of insertion tube: <i>8.5</i> Depth of field: <i>3...100mm, deviation not more than 10%</i> Diameter of instrument channel: <i>2 ... 2.2mm</i> View of field: <i>120°...140°</i> Tip deflection: Up/Down: <i>120°/ 90° ... 120°</i> Left/Right: <i>not less than 100°</i> 	1

		Colonoscope Working length: <i>1330 ... 1650mm</i> Total length: <i>1650 ... 1970mm</i> Diameter of distal end: <i>not more than 11.8</i> Diameter of insertion tube: <i>not more than 11.8</i> Depth of field: <i>3...100mm, deviation not more than 10%</i> Diameter of instrument channel: <i>2.8 ... 3.2mm</i> View of field: <i>120°...140°</i> Tip deflection: Up/Down: <i>not less than 180°</i> Left/Right: <i>not less than 160°</i> Trolley: <i>availability</i> Monitor: <i>not less than 19" seical medical monitor</i> Electronic Water Leakage Tester: <i>availability</i> Computer: <i>availability</i> Accessories: The set includes all the necessary additional devices and accessories to complete functioning of the equipment Standards: The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent and CE (Conformité Européenn) Mark (Device) instead of above mentioned ISOs.	
2	Electrocardiograph	Portable Recording ECG Leads: 12 standard Leads Recording ECG Leads 12 Standard leads: I,II,III,aVR,aVL,aVF,V1,V2,V3,V4,V5,V6 Recording format: 6 or 3 channel Viewing area: <i>not less than 30x 32 mm</i> Recoding paper: <i>110mm x30m or other size thermal sensitive roll paper</i> Recording speed (mm/s): <i>6, 10, 12.5, 25, 50</i> Sensitivity, mm/mV: <i>minimum 5, 10, 20</i> Recording operation: <i>Automatic / Manual recording</i> ECG copy: Reprint for the last patient	3

		Heart rate (option) 30...200bpm: <i>availability</i> PC Network (option) ECG data transmission toPC and save on PC: <i>availability</i> Real time clock (option) Date, time: <i>availability</i> Pace maker detection (option): <i>availability</i> Stress ECG interface: <i>availability</i> Arrhythmia detection: <i>automatic record mode</i> Simultaneous 12-ch ECG acquisition: <i>availability</i> Membrane alphanumeric key: <i>availability</i> Built-in rechargeable battery: <i>availability</i> Low battery checking: <i>availability</i> Power requirements: 220V/50Hz Accessories: 1. Patient cable 2. 6 chest limb electrodes 3. 4 limb electrodes 4. 4 strap electrodes 5. AC/DC adaptor 6. 1 bottle ECG Gel 7. 2 rolls of paper Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
3	OT Light (with multi colour chip)	Ceiling mounted system of spring loaded lower arm provides height adjustment for the light head. Double articulated cardanic system. With horizontal and vertical rotation of the light head $\pm 180^\circ$. Focusing handle in the sterile area. Light head cover easy to clean. Aerodynamic shape of the light head reducing disturbance in a laminar flow environment. Multi-Colour-chips to change the colour temperature of the OT-light (<i>colour temperatures not less than 4500 K</i>) The surgeon can set the colour temperature according to the tissue structure, the surgical application and individual colour sensitivity. Display Switching ON and OFF: <i>availability</i> Illumination in depth: <i>availability</i> Laser pointer: <i>availability</i>	2

		Electronic light intensity control: <i>availability</i>	
		2 Swivel arms for Axis.	
		Combination of two lights on standard axis. Arm 1 endless rotatable in all joints, arm 2 with not less than 320° rotation in upper joints, all other joints endless rotatable.	
		Color temperature: <i>3500...4750K, adjustable</i>	
		Electronic light intensity control at the lamp head: <i>not less than 5...100%</i>	
		OT light max. illumination level (1m) – <i>not less than 115,000 lx</i>	
		Color Rendering index at 4500K: <i>not less than Ra 96 , R9 not less than 90</i>	
		Focusable size of the light field (in cm): <i>17 ... 28cm, deviation not more than 10%</i>	
		Total power consumption: <i>70W, deviation not more than 20%</i>	
		Number of LEDs: <i>not less than 80</i>	
		Life-span of the LEDs: <i>not less than 40000h</i>	
		Working distance (in cm): <i>60...150cm, deviation not more than 10%</i>	
		Diameter of the lamp head (in cm): <i>not less than 49</i>	
		Height adjustment (in cm): <i>not less than 110</i>	
		Satellite:	
		OT light max. illumination level (1m) – <i>not less than 115,000 lx</i>	
		Color Rendering index at 4500K: <i>not less than Ra 96 , R9 not less than 90</i>	
		Focusable size of the light field (in cm): <i>17 ... 28cm, deviation not more than 10%</i>	
		Total power consumption: <i>70W, deviation not more than 20%</i>	
		Number of LEDs: <i>not less than 80</i>	
		Life-span of the LEDs: <i>not less than 40000h</i>	
		Working distance (in cm): <i>60...150cm, deviation not more than 10%</i>	
		Diameter of the lamp head (in cm): <i>not less than 49</i>	
		Height adjustment (in cm): <i>not less than 110</i>	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
4	Mobile OT Light (with	Mobile system of spring loaded lower arm provides height adjustment for the light head.	1

	single colour chip)	<p>Double articulated cardanic system. With horizontal and vertical rotation of the light head $\pm 180^\circ$.</p> <p>Focusing handle in the sterile area. Light head cover easy to clean.</p> <p>Aerodynamic shape of the light head reducing disturbance in a laminar flow environment.</p> <p>Single-Color-chips.</p> <p>Color temperature: 4500K, deviation not more than 10%</p> <p>Electronic light intensity control at the lamp head: not less than 5...100%</p> <p>OT light max. illumination level (1m) – not less than 100,000 lx</p> <p>Color Rendering index at 4500K: not less than Ra 95 , R9 not less than 90</p> <p>Focusable size of the light field (in cm): 17 ... 28cm, deviation not more than 10%</p> <p>Total power consumption: 30W, deviation not more than 20%</p> <p>Number of LEDs: not less than 20</p> <p>Life-span of the LEDs: not less than 40000h</p> <p>Working distance (in cm): 60...150cm, deviation not more than 10%</p> <p>Diameter of the lamp head (in cm): not less than 49</p> <p>Height adjustment (in cm): not less than 110</p> <p>Power: with integrated power supply 220V</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
5	Electrosurgical Unit	<p>HF electrosurgical unit used to execute monopolar and bipolar surgery in many fields of application where high precision and reliability are essential</p> <p>Max. output power for monopolar pure cutting mode - not less than 400W</p> <p>Max. output power for monopolar cut coagulation mode - not less than 250W</p> <p>Maximum output power monopolar cut mode - not less than 250W</p> <p>Max. output for bipolar cutting mode - not less than 100W</p> <p>Max. output for bipolar coagulation mode - not less than 100W</p> <p>Have thirteen different currents to meet every need : 3-4 for monopolar cut, 3-4 for monopolar coagulation , two for bipolar cut , three for bipolar coagulation</p> <p>Monopolar cut :</p>	2

	<p>The currents: pure cut , blend cut with a minimum haemostatic effect and modulated combination of cut and coagulation currents , blend cut with a medium haemostatic effect and modulated combination of cut and coagulation current , blend cut with a strong haemostatic effect spray type and modulated combination of cut and coagulation currents</p>
	<p>Monopolar coagulation:</p>
	<p>Currents, all with automatic optimization system with “under water” capability The four currents: Pin Point Contact , Soft: coagulation , precise, with a minimum superficial effect and deep action, Fulguration: coagulation with superficial effect and deep action. Spray: coagulation without contact, with strong superficial effect and light deep action. Automatic: coagulation with pulsed action</p>
	<p>Bipolar cut</p>
	<p>Two currents: pure cut with a minimum coagulating effect, blend cut with a strong coagulating effect.</p>
	<p>Activation :</p>
	<p>Double pedal switch which used for the monopolar and bipolar functions. Hand-switch handle</p>
	<p>Bipolar electrode with pedal switch or with automatic Start/Stop system (for coagulation only)</p>
	<p>Control</p>
	<p>Control system by microprocessor, monitor continuously all parameters</p>
	<p>Settings :</p>
	<p>Settings and adjustments on the front panel</p>
	<p>Memorization : User able to use at least 4 working programs</p>
	<p>Safety :</p>
	<p>Neutral plate safety circuit , NPCC System : Control connections and contacts of Neutral Plate with Tissues</p>
	<p>Defective Contact notified with visual Alarm and immediate reducing of power</p>
	<p>Generator :</p>
	<p>HF generator with power working according to the principle of free oscillators</p>
	<p>Classification and type: I - CF - leakages on the patient 10μA</p>
	<p>Output circuit: floating - protected against defibrillator interferences. Have HF leakages 150mA</p>
	<p>Power Supply: 220V/50Hz</p>
	<p>Cooling: convection without fan</p>
	<p>Working frequency monopolar and bipolar: 300... 600 kHz</p>

		Adjusting powers: by push-buttons Accessories connections and activation (with acoustic and luminous signals) Accessories : Single-use two button Handle Autoclavable Handle provided with a 3 Pins socket that fit majority of bipolar electrosurgical units Operative Foot-switch (usable as alternative to handle) Flat neutral Plate Kit of 10 short autoclavable Electrodes 5cm: fine straight, fine angled, loop 4mm, loop 8mm, hook angled, thick angled, ball, ball angled, needle, lancet. Bipolar Forceps : 4 Forceps provided with a standard European connection Straight Forceps – 15 cm. Curved Forceps - 15 cm. Curved Forceps - 20 cm. Straight Forceps - 20 cm. Cable, Bipolar Adaptor, Bipolar Cable User Manual Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
6	Ventilator	Intensive ventilation equipment with medical air Compressor. Plug and play modules: <i>availability</i> Patient Spirometry: <i>availability</i> Gas monitoring with metabolics and energy expenditure: <i>availability</i> Neonatal ventilation: <i>availability</i> Paramagnetic O2 sensing: <i>availability</i> Non-invasive ventilation: <i>availability</i> Sophisticated power management control with battery backup: <i>availability</i> Internal battery provides <i>not less than 30 minutes</i> for complete ventilator function. Built-in advanced nebulization system: <i>availability</i> Operated inline or independently for infants through adults: <i>availability</i>	2

Modes:
Volume Controlled (VCV): <i>availability</i>
Pressure Controlled (PCV): <i>availability</i>
Pressure Controlled, Volume Guaranteed (PCV-VG): <i>availability</i>
Synchronized Intermittent Mandatory Ventilation:
Volume Controlled (SIMV-VC): <i>availability</i>
Pressure Controlled (SIMV-PC): <i>availability</i>
Pressure Controlled, Volume Guaranteed (SIMV-PCVG) (optional): <i>availability</i>
Ventilation (CPAP/PSV): <i>availability</i>
Apnea backup available in SIMV-VC, SIMV-PC, BiLevel and CPAP/PSV: <i>availability</i>
Constant Positive Airway Pressure: <i>availability</i>
Maximum peak flow: <i>not less than 200 L/min</i>
Flow:
Neonatal: <i>0.2...30 L/min (0.004...0.5 L/sec), deviation not more than 10%</i>
Children: <i>2...90 L/min (0.04...1.5 L/sec), deviation not more than 10%</i>
Adult: <i>2...160 L/min (0.04...2.6 L/sec), deviation not more than 10%</i>
FiO2: 21...100% O ₂
Rate:
3...120 breaths per minute for VCV, PCV, PCV-VG (increments of 1 breath per minute): <i>availability</i>
1 to 60 breaths per minute for SIMV-VC and SIMV-PC (increments of 1 breath per minute): <i>availability</i>
Neonatal Rate:
3...150 breaths per minute for VCV, PCV, PCV-VG (increments of 1 breath per minute): <i>availability</i>
2 to 60 breaths per minute for SIMV-VC and SIMV-PC (increments of 1 breath per minute): <i>availability</i>
Inspiratory/expiratory ratio 1:9 ... 4:1: <i>availability</i>
Tidal volume range: <i>20 to 2000 mL and 3 to 350 mL (neonatal)</i>
Expiratory time: <i>0.3 ... 60 sec, deviation not more than 10%</i>
Trigger window: 0...80% of expiration time (increments of 5%), <i>deviation not more than 10%</i>
Flow trigger:
<i>0.2 ... 9 L/min: adjustable</i>
Pressure trigger:
<i>-3 ... -10 cm H₂O (increments of 1 cm H₂O), deviation not more than 10%</i>
<i>-3 ... -0.25 cm H₂O (increments of 0.25 cm H₂O), deviation not more than 10%</i>
Alarm System

		<p>High priority alarms escalate to a higher pitch if unattended for specified time: <i>availability</i></p> <p>Alarm limits calculated on the current measured values for selected parameters: <i>availability</i></p> <p>Adjustable to: Off, 0, 10, 20 and 30 sec</p> <p>Display</p> <p>LCD display size: <i>not less than 29cm</i></p> <p>Waveform parameters (<i>not less than</i>): pressure, flow, volume, auxiliary pressure, CO2, and O2</p> <p>Graphic scaling: automatic scaling for optimal size</p> <p>Data (<i>not less than</i>): control parameters, patient data, alarm settings and messages</p> <p>Status indicator (<i>not less than</i>): Ventilation mode, battery level, clock</p> <p>Accessories:</p> <p>Medical Air Compressor</p> <p>Humidifier</p> <p>1 Tube set, Neonatal</p> <p>1 Tube set, Adult and Children</p> <p>1 Humidifier chamber</p> <p>O2-connecting Tube <i>5m, deviation not more than 10%</i></p> <p>1 Air-connecting Tube <i>5m, deviation not more than 10%</i></p> <p>Humidifier: Heating power with safety thermostat and indication of operating status</p> <p>1 Circuit , Neonatal with patient Tubes , water traps, Y-piece, mask elbow, catheter connector</p> <p>1 Circuit , Adult/Children with patient Tubes, water traps, Y-piece, mask elbow, catheter connector</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
7	Nebulizer	<p>Ultrasonic nebulizer for aerosol therapy for intensive use.</p> <p>Ultrasound frequency: <i>1.0...2.0 MHz, deviation not more than 10%</i></p> <p>Diameter of nebulized particles: <i>1...5µm, deviation not more than 10%</i></p> <p>Medication cup capacity: <i>80ml, deviation not more than 10%</i></p> <p>Nebulization rate: <i>5.0 ml/min at 130 kPa, deviation not more than 10%</i></p> <p>Timer: <i>0...60min, deviation not more than 10%</i></p> <p>Noise: <i>not more than 50 db</i></p> <p>Power consumption: 220V/50 Hz.</p> <p>Electric classification: <i>The product is classified as generic medical Equipment, Class II, Type B</i></p>	4

		Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
8	Oxygen Concentrator	Compact and easy to transport oxygen concentrator (Mobile on Castors) The Oxygen Concentrator features a dual-head Compressor. One head producing. USB Interface: <i>availability</i> Volume flow <i>6 l/min</i> O2-concentration: 1...4 l/min. <i>not less than 95 %</i> 4...5 l/min. <i>not less than 85 %</i> 5...6 l/min. <i>not less than 75 %</i> Flow: 0...2 lpm <i>in 0.1 steps</i> 2...4 lpm <i>in 0.2 steps</i> 4...6 lpm <i>in 0.5 steps</i> Pressure-compensated Flow meter permit use of long canula while maintaining accurate flow setting. Alarms not less than: temperature, power failure, flow, oxygen, sensor, system Pressure-relief: Valve and thermal protection of the Compressor Flame-retardant Cabinet Sound Level (ANSI): <i>not more than 35dB</i> Fixed humidifier Port and Recess prevent bottle and connector breakage Power Requirements: 220 V/50 Hz Warranty of manufacturer: <i>not less than 30.000 operating hours</i> MDD Classification IIa: <i>availability</i> Accessories: Humidifier, nasal canula: 2 pcs. Set of Filters Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	2

9	Defibrillator with monitor	<p>Defibrillator with monitor</p> <p>Portable, lightweight, battery or accumulator operated automated external to treat patients requiring basic Life Support. Weight of complete unit, excluding batteries or accumulator, permits easy transport. The overall Dimensions enable easy storage and portability. The Casing constructed to withstand the standard operating Conditions in a physician's office and/or hospital. The device with stand the harsh operating conditions associated with ambulance use. The unit safe to use both for the operator and the patient.</p> <p>Defibrillator</p> <p>Operating modes: synchronous and asynchronous, external defibrillation.</p> <p>Energy steps: <i>1...360 joule not less than 22 steps</i></p> <p>Discharges:</p> <p>60 shock with 360 joule at 20°C.</p> <p>Defibrillator Discharge Recovery 5 sec per IEC 60601-2-27: <i>availability</i></p> <p>Charging time (accumulator fully charged):</p> <p>Charging Time to 200J : Within 6 seconds with rated main voltage/DC main Voltage (battery Within 7 seconds)</p> <p>Charging Time to 360J : Within 8 seconds with rated main voltage/DC main Voltage (battery Within 9 seconds)</p> <p>Delay time: <i>not more than 60 ms</i> between synchronization pulse and energy discharge</p> <p>EKG-Monitoring: <i>availability</i></p> <p>ECG monitor: 3 / 5 / 12 Lea</p> <p>Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6, Paddles, Pads</p> <p>Monitor type high - resolution graphic</p> <p><i>Screen Size : not less than 170x128 mm (8.4 in diagonally across the TFT-LCD screen)</i></p> <p><i>Screen Type/Color : Liquid Crystal Display (LCD) Color</i></p> <p>Resolution: not less than 800x600 pixel</p> <p>Filter: connectable 50Hz</p> <p>Functions:</p> <p>signal amplification, systole beep, heart rate, paddle lead, energy step, accumulator capacity, heart alarm limits</p> <p>Alarm: variable for high and low heart rates</p> <p>NELLCOR- pulsoximetry – module:</p> <p>Indication range: <i>not less than 100 ... 0%</i></p> <p>Calibration range: <i>not less 100 ... 50%</i></p> <p>Measurement precision: SpO2</p> <p>Adults: <i>not less than 100 ... 70 % ± 2 digits, 69 ... 50 % ± 3 digits</i></p> <p>Operating mode: <i>continuous</i></p> <p>Actualisation time: <i>2 sec</i></p>	3
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		Printer: availability Printer type: <i>thermal transfer head, 1-channel</i> Resolution: <i>8 bit / 200dpi</i> Paper width: <i>80mm</i> Operating modes: auto print (protocol printing showing the events of the 5s before and 5s after defibrillation) ECG print (EKG on-line protocol printing) MEMO-print (printing of the saved events of the last 10 defibrillationswith 5s before and 5s after defibrillation) 1/3-canal print Safety: Classification: Protection type II, Type BF, Medical device class 2b Power supply: by changeable accumulator Changeable accumulator: <i>14.4V / 6600mAh, Li-ion battery or equivalent accumulator</i> Weight: <i>not more than 10kg</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
10	Patient Monitor	Patient monitor draw Cardiograms, measures Blood Pressure not-invasivetype), Respiration values, Temperatures at two spots, Oxygen Saturation inarterial blood (SpO ₂), and Pulse rate (HR). Used to Monitor Patients on the transportation by using batteries and themeasured information on patient's condition displayed in wave forms along with numerical values. Display/Screen Display: Colour TFT display, screen diagonal Curves and measured values: <i>12", 8 curves</i> , as well as display fields for Brightness: manually adjusted Sweep Speed : <i>adjusted to 6.25, 12.5, 25 and 50 mm/s</i> Display pixels: <i>1024x768</i> Monitor Interfaces R-SYNC: for defibrillator, Each R-wave clearly identified, Staff call:Remote alarm via alarm adapter, RS-232 : as computer interface, Mains/Battery Operation, Mains operation: via built-in Power Supply Battery operation: via integrated battery or charging console. Battery operating time: <i>4 hrs</i> Power Supply : 220V automatic change-over Power failure	16

Buffer: for trend values,
System Expansion
Software updates via interfaces: extension of the range of performance parameters
Monitoring parameters include: ECG, RESP, NIBP, SPO2, PULSE RATE, DUAL-TEMP S-T segment synchronized detection and analysis
Graphic and tabular trends of all parameters
NIBP, HEART RATE, TEMP, SPO2, RESP, data storage (400 hour)
Able to be connected with a Central Monitor Station
Inner high - definition thermal dot matrix recorder <i>optional</i> , and can output waveforms and characters
ECG
Input: Whole-lead ECG cable, standard AAMI cable connector
Bilt-in printer: <i>availability</i>
Paper speed: 25, 50mm/s
Calibration signal: 1mV,
Protection: Against electrosurgical interference and defibrillation
Heart Rate: Measuring range: 30...250bpm
Alarm mode: Audible and visual Alarm
Measurement Range: 0...99 bpm
Oxygen Saturation(SPO2) Meas. Range: 35~100%
NIBP
Method: Oscillometric, Mode Manual/Auto, Resolution: 1 mmHg
Have Over-pressure protection: (Adult 300mmHg; Child 220mmHg) Temperature: Means. Range: 0...50°C , Resolution: 0.1°C , Accuracy: ± 0.2°C
Operation Environment : Temperature: 0~45C , Humidity: 30~85% (non condensing)
Accessories:
Electrode cable for disposable electrode (3 leads)
NIBP cuff for adults
NIBP cuff for children
Hose for NIBP cuff
Power cord
Disposable electrode (5 pcs)
SpO2 sensor reusable
Console / Bedside Holding Device
Standards:
Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).

11	Syringe pump	Syringe Driver for Parenteral Infusions, in Wards, OP, ICU's and during Transportation/Transfer	35
		Single Channel. It accept <i>not less than 50cc Syringes</i>	
		Non-CaptiveSelf checking of Electronics with audible call back on locked-out Controls	
		Tamper and fluid resistant Design. ABS Casing (Impact-Resistant)	
		Flow rate: <i>0.1 ... 1200 ml/hr, deviation not more than 1%</i>	
		Flow rate increment: <i>0.1 ml/hr</i>	
		Total volume infused: <i>0.1 to 1000 ml</i>	
		Time limit: <i>from 1min. to 99 h.</i>	
		Syringes (various brands): <i>10...50ml</i>	
		Precision (stipulated syringes): $\pm 1\%$	
		Occlusion pressure: <i>adjustable</i>	
		KVO: <i>adjustable from 1ml/h -10ml/h.</i>	
		Bolus: <i>adjustable from 0.1...1200ml/h</i>	
		Alarms/Safety (occlusion; infusion completed; low battery; programming error; syringe positioning error; siring error; clamp error): <i>availability</i>	
		Protection against Leakage Current (type CF. equipment): <i>availability</i>	
		Protection against Electric Shocks (class II, equipment): <i>availability</i>	
		Communication RS232C Interface: <i>availability</i>	
		Electrical:	
		Electrical class II: <i>availability</i>	
		Lead acid battery 12V: <i>availability</i>	
		Bat. Autonomy: min. 3 hrs at 5 ml/h	
		Power supply: 220V/50Hz	
		External transformer. Stabilizer	
		General Requirements of Safety for Electromagnetic Compatibility	
		Accessories:	
		IV stand clamp	
		Rail clamp	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
12	Volumetric Infusion	Linear peristaltic pump for use with standard 3.6...4.2mm. PVC tubing.	45

	Pump	<p>It used equally with infusion sets having standard 20 drops/ml drip chamber or micro-drip - not less than 60 drips/ml drip chamber without the need for flow rate adjustments</p> <p>Battery back-up operating time: not less than 4 hours / 125 ml/h</p> <p>LCD programming display, data entry calculator style numeric programming keyboard, nurse call output alarm, time and date settings, quick titration of rate or dose with volume-time programming</p> <p>Flow rate 0.1...1000ml/h</p> <p>Flow rate increment: 0.1 ml/hr</p> <p>Volume infused 1.0 ... 9999.9 ml , deviation not more than 1%</p> <p>Time limit: from 1min. to 99 h.</p> <p>Occlusion pressure: programmable from 0...990mm Hg.</p> <p>Special functions: titration, fluid balance, clear volume, adjust KVO, adjust bolus</p> <p>Programming: ml/h x volume limit; Timex volume limit.</p> <p>KVO: programmable/adjustable from 1ml/h -10ml/h.</p> <p>Bolus: programmable/adjustable from 1...1000ml/h</p> <p>Both flow rates and volume to be infused configured to limit the maximum allowable range accuracy ±5%</p> <p>System Configuration Accessories, spares and consumables.</p> <p>Power Supply: 220V/50Hz</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
13	Suction Pump	<p>Suction Unit for Major Surgery Procedures.</p> <p>Mains-powered , mobile on 4 antistatic castors, ABS Casing and 2 graduated Canisters of not less than 2,000ml each made of polycarbonate or equivalent material autoclavable at 121°C and disposable suction bags</p> <p>Require no maintenance nor lubrication Oil-free Piston Motor, maximum suction 600...700mm Hg Flow rate not less than 45 l/min</p> <p>Main Switch with Pilot Lamp (fuses): availability</p> <p>Equipped with a protective thermal cut-out relay: availability</p> <p>Equipped with motor-protection cap that totally prevents aspirated liquids or secretions from reaching and damaging the vacuum pump: availability</p> <p>Suction command with continuous adjustment: availability</p> <p>Vacuometer: not less than 2x2.000ml</p> <p>Canisters with airproof screwing-cap with independent</p> <p>Overflow devices. Fast Connectors and silicone Tubing</p> <p>Power Supply: 220V/50Hz.</p>	4

		Sound level: <i>not more than 55dBA</i> Accessories: Silicone Tubing, sterilizable Transparent Cannula Holder, Sterilizable Anti-Bacterial Filters (4) Set of 4 canulaes with Holder Standards Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
14	Operating instrument set	<i>Operating instrument set:</i> Clamp for intestinal wall grasping - 2pcs Intestinal spring clamp for adults, curved, L=235 mm - 1pc Intestinal spring clamp for adults, straight, L=240 mm - 1pc Hemostatic clamp 1x2-toothed,serrated, straight No.2 - 4pcs Hemostatic clamp 1x2-toothed,serrated, straight No.3 - 2pcs Hemostatic clamp ,toothed,curved No.1 - 4pcs Hemostatic clamp ,toothed, curved No.2 - 2pcs Hemostatic clamp ,toothed, straight No.2 - 2pcs Hemostatic mosquito clamp, straight - 4pcs Hemostatic mosquito clamp curved on edge - 4pcs Towel clip with rack - 4pcs Peritoneum towel clip with rack - 4pcs Surgical single-ended bulbous-end probe, grooved (proctologic director),215 mm - 1pc Suture needle 3B1-1,1x50 - 20pcs Suture needle 4A1-0,6x20 - 20pcs Suture needle 4A1-0,7x45 - 20pcs Suture needle 4B1-0,6x20 - 20pcs Suture needle 4A1-1,2x55 - 20pcs General surgical needleholder,160 mm - 2pcs General surgical needleholder,200 mm - 2pcs General surgical needleholder,250 mm - 2pcs	2

		Sponge forceps curved - 2pcs Sponge forceps straight - 2pcs Sharp 4-toothed surgical retractor No.1 or No.2 - 1pc Blunt 4-toothed surgical retractor No.1 or No.2 - 1pc Amputating knife, small H□250□120 - 1pc One sharp-pointed scissors,straight,140 mm - 2pcs Blunt-pointed scissors, vertically-curved,170mm - 2pcs Blunt-pointed scissors, vertically-curved,140mm - 2pcs Blunt-pointed scissors, vertically-curved,250mm - 2pcs Blunt-pointed scissors, staright,140mm - 2pcs General-purpose dissecting tweezers, □□150□1,5 - 5pcs General-purpose dissecting tweezers, □□200□1,5 - 4pcs General-purpose dressing tweezers, □X 150□1,5 - 5pcs General-purpose dressing tweezers, □X 200□1,5 - 4pcs Bellied scalpel, medium □□150□40 - 10pcs Cavity trocar, dia.2 mm - 1pc Renal calcula forceps No.1 - 3pcs Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
15	AMBU emergency case	Manual Resuscitator, Autoclavable ,with unidirectional Valve Adapted to First Emergencies the unit and the complement to all automaticventilation Designed for Adults. Supplied with 2 masks All parts autoclavable: up to 134° C. The device consist of a self-filling Bag of thin Silicone Rubber whichtransmit adequately the User's Fingertips Action with a high degree of 'feel'indicative of Pressure and Volumes Changes 2 Face masks A pressure relief valve incorporated to comply with BS 6850.1987 standart Balloon: Silicon volume range not less than 1,6L Safety Pressure: not less than 30cm H₂O Accessories: Balloon , autoclavable Valve, autoclavable Valve Obturator	2

		PEP Valve Adaptor 2 Masks vinyl, Adult / Children with Straps Tube for Pressure retake Plastic carrying case Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
16	UV-Air Flow Cleaner–Recirculators	<i>UV-Air Flow Cleaner–Recirculator:</i> UV air flow cleaner with not less than 3 UV-lamps Full user protection from direct UV radiation Convenient fixation on walls (standard) Control type: <i>Electronic</i> Performance m ³ /h: <i>not less than 100</i> The bactericidal efficacy: <i>not less than 99%</i> The total radiation power: <i>14, deviation not more than 10%</i> The service life of the UV lamps (h.): <i>not less than 9000</i> Sound power level (dBA): <i>not more than 40</i> Accessories Ionized Tube: 3 pcs Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent) or RF certificate.	28
17	Anesthesia trolley (anesthesia machine)	Inhalation anesthesia machine for use with all standard inhalation anesthesia methods, including low-flow. Precision for pediatric and adults applications.	1

with ventilator and monitor)	Anesthesia machine contained the following parts: Standing compact trolley with minimum three drawers, a pull-out writing tray and front antistatic castors, equipped with brakes; ventilator; manual ventilation unit; breathing system of 3 gases -O ₂ /N ₂ O/AIR- with sensitive oxygen ratio controller for N ₂ O and with the integrated CO ₂ circle absorber system; integrated VPO monitoring with high resolution color display; interface; socket system for minimum two vaporizers; interface for central gas supply: NIST/ DISS for O ₂ , AIR, N ₂ O included electronical surge and pressure gauges; external fresh gas outlet with all approved non - rebreathing systems, application of all medical gas and volatile gases with manual fresh gas: <i>notless than 0.0 ... 12 l/min</i>
	Electronic controlled ventilator, electrically driven (no driving gas consumption).
	<i>Operating modes:</i>
	Manual/Spontaneous
	Volume Controlled Ventilation
	Ventilation w/PS (SIMV/PS).
	Pressure Controlled Ventilation;
	Pressure Support; Synchronized Volume Controlled.
	Tidal volume: <i>notless than 20...1400 mL</i> in Volume Control Ventilation and <i>notless than 20...1100mL</i> in SIMV/PS.
	Breathing frequency: <i>notless than 4 to min. 60 bpm</i>
	Max. minute volume (MV): <i>99 L/min.</i>
	PEEP: 4 - 30 cmH₂O, deviation not more than 5%
	Pressure limiting: <i>15...70 cmH₂O, deviation not more than 5%</i>
	Inspiratory pressure: 5...60 cmH₂O, deviation not more than 5%
	Inspiratory pause: 5- 50 %, deviation not more than 5%
	Inspiration/expiration ratio: <i>4 : 1 to 1 : 4</i>
	SIMV inspiratory time: <i>not less than 0.3 to min. 4.0 sec.</i>
	Trigger: notless than 0,2... 10 L/min
	Anesthesia gas delivery system, twin tubes for O ₂ , N ₂ O and Compressed Medical Air.
	Low-flow flow meter only tube system with: <i>tubes for oxygen 0 ... 0.5L/min and 0.5 ... 12.0 L/min; tubes for nitrous oxide 0 ... 0.5 L/min and 0.5 ... 10.0 L/min; tube for compressed air - 0 ... 12 L/min, all deviation not more than 5%</i>
	Have provision for delivery of oxygen, nitrous oxide and medical air with pressure gauges.
	Oxygen and Nitrous oxide linked pneumatically to ensure a minimum of 25% oxygen delivery at all times to avoid delivery of hypoxic mixture.
	Have audio-visual oxygen Failure Warning System with Nitrous oxide cut off.

	Patient monitoring system ECG, Pulseoxymeter and airway pressure, NIBP, rectal/skin temperature.
	Display: color display notless than 10"
	ECG-up to 5 leads, ORS detection range- amplitude 0.5 - 5.0mV; duration - 40...120msec.; pacer detection.
	Respiration measuring range: 0...100 br/min.
	Pulse oximetry measuring range: SpO2- 1...100%; Pulse -30 to min.250bpm.
	Temperature (absolute and delta temperature): measuring range 10 ... 45°C, deviation not more 0.1°C
	NIBP: Adult 30...240bpm, deviation not more 5%. Pediatric 30...250mmHg, deviation not more 5%. Alarm settings: availability
	Integrated safety functions Sensitive Oxygen Ratio Controller (S-ORC) delivers a minimum O2 concentration of 21% in an O2/N2O mixture.
	N2O cut-off if O2 fresh gas valve is closed or if O2 flow is 0.2 L/min.
	Audible and visual (flashing red LED) indication in case O2 pressure drops below 20 psi (1.38 bar) ± 4 psi (0.27 bar).
	In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery are possible.
	Monitoring Continuous monitoring of inspiratory O2 concentration, breathing frequency, tidal volume, minute volume, peak airway pressure and PEEP, as well as selection of mean or plateau pressure.
	It completed:
	Anesthesia ventilator
	Patient monitor same manufacturer
	Patient Circuit
	Supplied with necessary Attachments for use of the breathing Circuits (Ruben, Bains, Jackson-Rees or Magill)
	Circle Absorber System
	Adjustable pressure limiting Valve, breathing circuit pressure measuring device.
	Gas scavenging and patient suction.
	Bag/Ventilator selecting Valve integrated onto the Absorber.
	Vaporizers for isoflurane
	Precision, ISO pin type mounting , maintenance free Vaporizers (Temperature, Pressure and Flow compensated) for Izoflurane with standard filling port, with keyed filling device designed for transport with liquid in Vaporiser Chamber with protection against tipping and shaking.
	Power supply 220V/50Hz

		<p><i>Accessories required for An aesthesia Machine:</i></p> <p>Hose assembly for piped Oxygen supply: 1Set</p> <p>Hose assembly for piped Air supply: 1Set</p> <p>Test bag, 1 liter: 1</p> <p>Power cord with grounding wire: 1</p> <p>Dust cover: 1</p> <p>Bellows assembly, adult / Children</p> <p>Patient Circuit, Complete, Adult / Children. Reusable: Consumables for anesthetic unit for 2 years operation:</p> <p>Battery cell (as appropriate)</p> <p>Soda lime for circle absorber (5Kg/pack): 5 Packs for 1 unit</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
18	Portable anesthesia machine	<p>Portable anesthesia machine (O2/N2O/AIR/Ratio system)</p> <p>Portable anesthesia unit for ambulant use. It may also be used as a stationary device in medical surgeries or in ORs.</p> <p>It is divided into an application unit and gas supply unit for easy transport. Its integrated circuit system and monitoring system adjustable to your requirements offer you the same standards of safety and convenience as a hospital OR.</p> <p><i>Central gas supply:</i></p> <p>Oxygen (O2): <i>not less than 280 ... 600 kPa</i></p> <p>Nitrous oxide (N2O): <i>not less than 280 ... 600 kPa</i></p> <p>Reserve bottles (option) 280 - 600 kPa: <i>availability</i></p> <p><i>Fresh gas dosing</i></p> <p>O2 (fine): <i>not less than 100 ... 1000 ml/min</i></p> <p>O2 (coarse): <i>not less than 1.5 ... 10 l/min</i></p> <p>N2O (coarse): <i>not less than 1.5 ... 10 l/min</i></p> <p>AIR (fine): <i>not less than 100 ... 1000 ml/min</i></p> <p>AIR (coarse): <i>not less than 1.5 ... 10 l/min</i></p> <p><i>Accessories required for An aesthesia Machine:</i></p>	1

		<p>patient circuit system, monitoring system (for gas detection and patient monitoring), breathing bag, vaporizer</p> <p>Vaporizer for isoflurane</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
19	Operating table multifunctional	<p>Operating table designed for carrying out treatments, dressing interventions and operations in the range of general surgery and orthopedic.</p> <p>All metallic parts made from stainless, acid proof steel.</p> <p>The table base mobile and have central brakes activated by wire controller.</p> <p>Back rest and leg rest inclination angle, Trendelenburg and reverse-</p> <p>Trendelenburg positions and height adjustment of the table top activated by electro - hydraulic system</p> <p>The table top translucent for x-rays with not less than 5 separate Sections</p> <p>Table top length not less than 2130mm</p> <p>Table top width not less than 590mm</p> <p>Minimal height of the table not less than 720mm</p> <p>Maximal height of the table not less than 1080mm indicatively</p> <p>Trendelenburg not less than 30°</p> <p>Reverse Trendelenburg not less than 30°</p> <p>Lateral tilt not less than ±20°.</p> <p>Back rest inclination angle +70° ... 50°</p> <p>Head rest inclination angle not less than 55°</p> <p>Head rest inclination angle not less than 25°</p> <p>Battery supply: 12 V</p> <p>Power requirements: 220V/50Hz</p> <p>Power Transformer:12 VDC.</p> <p>Accessories:</p>	1

		<p>Orthopedic attachment (for: Knee arthroscopy; Legs fixation, traction when: Patient in spine position; Patient in lateral position; And for tibia nails; Included transport cart for attachemnt)</p> <p>Anaesthetic Screen with clamp with telescopic tubes: 1pc</p> <p>Body restraint Strap with clamp: 1pc</p> <p>Padded Shoulder supports: 2pcs</p> <p>Padded Leg support with swivel type clamp: 2pcs</p> <p>Padded arm Rests 450 -500 mm long with two arm Clamps: 2pcs</p> <p>Padded Lateral support with universal attachment Clamp: 2pcs</p> <p>Padded rubber mattresses with Anti Microbial agent incorporated into all components that assists in Prohibiting growth of bacteria & fungi and easy to clean and maintain and of 1” thickness: 2X5 Sections, Head rest , I.V drip Stands attachable to the table</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
20	Operating Table Universal (Electric)	<p>Operating Table Universal (Electric)</p> <p>All metallic parts made from stainless, acid proof steel.</p> <p>The table base mobile and have central brakes activated by wire controller.</p> <p>Table top length <i>not less than 2000mm, deviation not more 50mm</i></p> <p>Table top width <i>not less than 480mm, deviation not more 20mm</i></p> <p>Minimal height of the table <i>not less than 750mm, deviation not more 50mm</i></p> <p>Maximal height of the table <i>not less than 950mm, deviation not more 50mm</i></p> <p>Inclination:</p> <p>Forward: <i>not less than 25°</i></p> <p>Backward: <i>not less than 35°</i></p> <p>Leftward / Rightward: <i>not less than 20°</i></p> <p>Head board fold upward: <i>not less than 40°</i></p> <p>Fold downward: <i>not less than 90°</i></p> <p>Leg board fold downward: <i>not less than 90°</i></p> <p>Fold outward: <i>not less than 90°</i></p> <p>Back board fold upward: <i>not less than 45°</i></p> <p>Fold downward: <i>not less than 20°</i></p> <p>Waist board lifting: <i>not less than 100mm</i></p> <p>Power requirements: 220V/50Hz</p>	2

		<p>Accessories:</p> <p>Should supply the standard accessories</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).</p>	
21	Laparoscopy set	<p>Technical description for laparoscopic equipment and instruments</p> <p>NOTE: the following specifications identify the desired configuration of the required laparoscopy system and of its components. Bidders are allowed to offer functionally equivalent solutions, including all components described below.</p> <p>1.Electronic Endoflator Set– 1pc:</p> <ul style="list-style-type: none"> · SCB operating voltage: 100-240 VAC, 50/60 Hz consisting of: Electronic Insuflator, with integrated communication Module: · Power cord, · Silicone tube, sterilizable Universal wrench, · Integration Connecting cable, · Sterile filter, Package of not less than 10 pieces · Digital indication of modes: availability · Range of change of a flow of gas, l/min: Available 0...20 l/min · Range of adjustment of pressure, mm of: 0...30 · Built-in automatic system of safety of fixed control of intra-abdominal pressure, excessive pressure is automatically dumped: availability · Visual and acoustic precautionary alarm system: availability · Indications of the actual parameters of intra-abdominal pressure, digital: availability · Intra-abdominal pressure of an insufflation in the range, mm of mercury: not less than 50 · The actual flow of gas, in the range, l/min: not less than 20 · The actual consumption of gas in the range, L: at least: 0...999 <p>2.Hose of a high pressure with carving connection according to the European standard– 1pc</p> <ul style="list-style-type: none"> · cm length: not less than 55cm <p>3.Cylinder for CO2, empty, with connection according to the European standard – 1pc</p> <p>4.CO2\N2O the gas filter for use with an insuflator, sterilely – 2pcs</p> <ul style="list-style-type: none"> · Pack: not less than 25 ps/pcs · Hydrophobic from both sides: availability 	1

5. The high-frequency electrosurgical device, for mono and bipolar modes of coagulation, cutting– <i>Ipc</i>
· Built-in monitor: <i>availability</i>
· Available of the Russified menu: <i>availability</i>
· Available of automatic system of the safety which is disconnecting a coagulator in case of excess of parameters of safety, at the same time with warning optical and sound signals: <i>availability</i>
· Automatic control of output tension: <i>availability</i>
· Mode of pulse modulation of output tension: <i>availability</i>
· Digital indication of the ranges of regulation and output parameters: <i>availability</i>
· Verification mode of a neutral electrode: <i>availability</i>
· Mode of automatic self-testing with error code issue: <i>availability</i>
· Available of the program autostart, self-locking device: <i>availability</i>
· Power consumption in case of max. HF-capacity: <i>not less than 920 W</i>
· Nominal frequency cutting monopolar kHz: <i>not less than 330 kHz</i>
· Nominal frequency coagulation bipolar kHz: <i>not less than 330 kHz</i>
· Nominal frequency soft coagulation monopolar kHz: <i>not less than 330 kHz</i>
· The forced coagulation monopolar MHz: <i>not less than 350 kHz</i>
· HF rated power cutting monopolar W: <i>not less than 220 W in 500 Ohm</i>
· HF rated power coagulation bipolar W: <i>not less than 120 W in 120 Ohm</i>
· HF rated power soft coagulation monopolar W: <i>not less than 120 W in 125 Ohm</i>
· HF rated power the forced coagulation W: <i>not less than 120 W in 350 Ohm</i>
· Effect choice for quality of cutting, quantity of levels: <i>not less than 8 effects</i>
· Effect choice for quality of coagulation, quantity of levels: <i>not less than 8 effects or</i>
· The permanency of values of 8 effects of coagulation is regulated automatically: <i>availability</i>
· The range of adjustment of capacity of cutting monopolar, by steps on 1 W: <i>at least 1...220 W</i>
· The range of adjustment of capacity of coagulation bipolar, it is step with a step of 1 W: <i>at least 1...120 W</i>
· Range of adjustment of capacity of coagulation monopolar, step of adjustment of 1 W: <i>at least 1...120 W</i>
· Working temperature, the range of degrees, C: <i>10 °C ... 40 °C</i>
· Max cutting tension monopolar, B: <i>not less than 740 V</i>
· The max. tension of coagulation soft monopolar, V: <i>not less than 190 V</i>
· Max. tension coagulation standard, B: <i>not less than 190 V</i>
· Max tension coagulation forced, B: <i>not less than 1800 V</i>
· Max. tension coagulation bipolar, B: <i>not less than 190 V</i>
· Programming of a delay time of inclusion autostart: <i>availability</i>

		· Control of a type of a neutral electrode: <i>availability</i>
		· Compliance to the IEC 60601-1 standard: <i>availability</i>
		6.The neutral electrode from silicone, with 2 rubber strips for fixing, is used with a coagulator, the connecting cord is necessary for connection – <i>1pc</i>
		· Contact surface of sq. cm, cm: <i>not less than 500</i>
		7.Connecting cord for connection of neutral electrodes– <i>1pc</i>
		· Length, cm: <i>not less than 300cm</i>
		8.Double pedal for HF coagulator– <i>1pc</i>
		9.Monopolar HF a cord for devices– <i>1pc</i>
		· With the plug, mm: <i>at least: 5mm</i>
		· Length, cm: <i>not less than 300 cm</i>
		10.Bipolar HF cord for coagulators and Bypolar tools – <i>1pc</i>
		· Length, cm: <i>not less than 300cm</i>
		· Compatibility with the tool and HF production of Karl Storz: <i>availability</i>
		11.Universal pump, for aspiration and an irrigation- <i>1pc</i>
		· Max. pressure of an irrigation, mm of mercury: <i>at least 400 mm of mercury</i>
		· Max pressure of aspiration, Bar: <i>at least 0,7 Bar</i>
		· Capacity of aspiration of l/min: <i>at least 3,5 l/min</i>
		· Capacity of an irrigation of l/min: <i>at least 3,5 l/min</i>
		12.Suction pot, amount liter not less 1.5L or better - <i>1pc</i>
		13.Cover for pot of a <i>suction 1,5 and 5 liter</i> , sterilized with protection against a modulation- <i>1pc</i>
		14.Liquid bottle with cap <i>not less 1L</i> for the washing-out solution, sterilized, amount– <i>1pc</i>
		15. Bottle cap, sterillizable for use with irrigation bottle 1 l / 1,5 l- <i>1 pc</i>
		16.The holder for a large bottle of a suction, <i>not less than 1,5L:- 2pcs</i>
		17.Set of the silicone sucking-away tubes sterilized. <i>In a set are two tubes</i> – 1pc
		· For connection of an aspiration large bottle in amount to l with a pump and the aspiration tool with a large bottle 5L: <i>availability</i>
		18. Set of the silicone washing-out tubes sterilized. In a set two tubes. For connection of an irrigational large bottle in amount to 1 liter with a pump and with the irrigational tool - <i>1pc</i>
		19.Tube for irrigation/aspiration, with an antireflecting surface– <i>1pc</i>
		· Diameter, mm: <i>at least 5mm</i>
		· Length, cm: <i>at least 36cm</i>
		· With the double-thread crane for work as one hand: <i>availability</i>

20.The bacterial filter for use with liquid pumps, unsterile 10pcs in the box – 1pc
· Water repellency from both sides: availability
· Case material – polypropylene: availability
· Filter material –polytetrafluorethylene: availability
· Size of a pores of the filter, nanometer not more than 0,1 nm
21.High-power LED source of cold light on LED technology for application in endoscopy in the diagnostic or therapeutic purposes– 1pc
· The built-in block of centralized management from a sterile zone for possibility of management from a sterile zone and remote indication of its parameters: Available
· Capacity of light (equivalent to xenon), W: not less than 175 W
· Color temperature of light, K: not less than 5600K
· Available of functions of safety: in case of inclusion the device carries out self-testing: Available
· In case of failure detection giving of a sound signal and automatic transition to a safe mode: availability
· Working temperature, C: not less than 10...40°C
· Expiration date of a radiator, hours: not less than 30.000h
· Percentage indication of intensity of light: availability
· Available of a waiting mode and memory of the preset value to an exit in a waiting mode: availability
22.Fiber-optical light guide– 1pc
· Diameter, mm: not less than 4,8cm
· Length, cm: not less than 180cm
· The direct plug for connection of the light guide with a light source: available
· Sterilization in autoclaves, gas sterilization, chemical disinfection: available
· For connection with optics diameter from. to mm: at least 6,5...12mm
23.The camera control unit with the built-in module of digital handling of a signal, one-chip- 1pc
· Color PAL/NTSC system: available PAL/NTSC
· Automatic installation of an exposition for the maximum improvement of quality of the image: availability
· Compatibility with video endoscopes: available
· Built-in anti-moire filter: availability
· Digital increase in the image, quantity of steps at not less than 4
· Automatic adjustment of balance of white preserving with function in memory: availability
· Function freeze frame: available

	<ul style="list-style-type: none"> Horizontal permission: not less than 450 lines Programmable function keys for management of 4 functions of a video camera or peripheral devices: not less than 4 function
	24. One-chip Head of endovideoscope – 1pc
	<ul style="list-style-type: none"> Image sensor: not less than 1/2" CCD chip Color system: PAL Number of pixels: not less than 752 x 582 pxs Ratio signal/noise: DB: not less more 50 DB Min. sensitivity: not more than 3 lxs Range of automatic installation of an exposition: not less than 1/50 sec - 1/10000 sec Built-in parfokalny zoom range of change of focal length: 25...50mm Freely programmable buttons of management: not less than 2
	25. Coverings protective for use with endoscopic video cameras – 2pcs
	<ul style="list-style-type: none"> Size, cm: not less than 13x242 Disposable, sterile: available Sticky tape for fixing: available Addition type the telescopic: availability In packaging, piece: not less than 50 ps set
	26. Liquid crystal medical flat monitor, screen size not less than 19" – 1pc
	<ul style="list-style-type: none"> Intuitive touch management through a circular slider: available Overview corner, hail: not less than 178° Permission of max. pxs: not less than 1280 x 1024 pxs Video entrances: DVI, RGB, S-Video, video Composite: available Video exits: DVI, S-Video, video Composite: available Illumination: cd/m2: not less than 280 cd/m2 Contrast: not less than 700:1 Time of reaction, ms: not more 12 ms The hermetic aluminum case for the damp disinfection, resistant to mechanical and chemical impacts (a covering on nanotechnology): availability Mains voltage: 100-240 VAC, 50/60 Hz, (built-in power unit of 5 Volts): or equivalent Power consumption, W: not more than 175 W Sizes, mm: not more than 470x416x76mm

		27.Rack mobile for the endoscopic equipment - <i>1pc</i>	
		· On antistatic rollers: <i>not less than 4</i>	
		· Forward rollers with clamps: <i>not less than 2</i>	
		· Box with the lock: <i>availability</i>	
		· Number of shelves, including the socle: <i>not less than 4</i>	
		· Size of shelves, mm: <i>not more than 630x25x510mm</i>	
		· Camera holder: <i>availability</i>	
		· Dimensions mm: <i>not more than 830 x 1474 x 730mm</i>	
		· Diameter of rollers mm: <i>not less than 125 mm</i>	
		· The power unit with the panel for sockets: <i>not less than 6 outlet</i>	
		28.The holder of the monitor, with the built-in cable channel, for use with 19" HD monitor – 1pc	
		29.Rigid core - lens optics– <i>1pc</i>	
		· Direct vision, degrees: <i>availability 0°</i>	
		· Diameter, mm: <i>not less than 10mm</i>	
		· Sapphire face distal lens: <i>available</i>	
		· Working length, cm: <i>not less than 31cm</i>	
		· Thermal jack of length: <i>available</i>	
		· Anti-reflex internal covering: <i>available</i>	
		· The autoclaved: <i>available</i>	
		· With the built-in fiber glass light guide: <i>available</i>	
		· Large-format, expanded field of vision, corner of the overview of degrees: <i>not less than 90°</i>	
		30.Rigid core - lens optics– <i>1pc</i>	
		· Front and lateral vision, degrees: <i>not less than 30°</i>	
		· Diameter, mm: <i>not less than 10mm</i>	
		· Sapphire face distal lens: <i>availability</i>	
		· Working length, cm: <i>not less than 31cm</i>	
		· Thermal jack of length: <i>availability</i>	
		· Anti-reflex internal covering: <i>availability</i>	
		· The autoclaved: <i>available</i>	
		· With the built-in fiber glass light guide: <i>availability</i>	
		· Large-format, expanded field of vision, corner of the overview of degrees: <i>not less than 90°</i>	
		31.Metal trocar, folding on <i>not less than 3 parts</i> – <i>2pcs</i>	
		· Trocar stylet, conic: <i>availability</i>	
		· Cannula without the valve, with the crane for an insufflation: <i>availability</i>	

	<ul style="list-style-type: none"> · Multipurpose valve, diameter, mm: <i>at least 11mm</i>
	<ul style="list-style-type: none"> · Diameter, mm: <i>not less than 11mm</i>
	<ul style="list-style-type: none"> · Length, cm: <i>not less than 10,5cm</i>
	32.Metal trocar, folding on <i>not less than 3 parts– 1pc</i>
	<ul style="list-style-type: none"> · Trocar stylet, conic: <i>availability</i>
	<ul style="list-style-type: none"> · Cannula with a carving, with the silicone petal valve, length, cm: <i>not less than 10,5cm</i>
	<ul style="list-style-type: none"> · Diameter, mm: <i>not more than 6mm</i>
	33.Metal trocar, folding <i>3 parts</i> – 2pcs
	<ul style="list-style-type: none"> · Trocar stylet, pyramidal: <i>available</i>
	<ul style="list-style-type: none"> · Cannula without the valve, with the crane for an insuflation: <i>available</i>
	<ul style="list-style-type: none"> · Multipurpose valve: <i>available</i>
	<ul style="list-style-type: none"> · Diameter, mm: <i>not more than 6mm</i>
	<ul style="list-style-type: none"> · Length, cm: <i>not less 10,5cm</i>
	34.Adapter cap quick-change, with fixture to the trocar valve- <i>2pcs</i>
	<ul style="list-style-type: none"> · Transition from diameter from mm to mm: <i>not more than from 11 to 5mm</i>
	35 .Forceps for a dissection and coagulation, dismountable - <i>1pc</i>
	<ul style="list-style-type: none"> · Diameter, no more, than a mm: <i>not more than 5mm</i>
	<ul style="list-style-type: none"> · Length, at least, cm: <i>not less than 36cm</i>
	<ul style="list-style-type: none"> · Branches atraumatic, fenestrated: <i>availability</i>
	<ul style="list-style-type: none"> · Both branches are mobile: <i>availability</i>
	<ul style="list-style-type: none"> · With connection for monopolar coagulation: <i>availability</i>
	<ul style="list-style-type: none"> · Possibility of fast connection and handle detachment from a tube with an insert by means of a push-button mechanism: <i>availability</i>
	<ul style="list-style-type: none"> · The tube with an insert is compatible to all types of handles for monopolar tools: <i>availability</i>
	36.Dismountable forceps for a dissection, rotary– <i>2pcs</i>
	<ul style="list-style-type: none"> · Diameter, no more, than a mm: <i>not more than 5mm</i>
	<ul style="list-style-type: none"> · Length, cm: <i>not less than 36 cm</i>
	<ul style="list-style-type: none"> · Branshes by KELYY: <i>availability</i>
	<ul style="list-style-type: none"> · Both branches are mobile: <i>availability</i>
	<ul style="list-style-type: none"> · With connection for monopolar coagulation: <i>availability</i>
	<ul style="list-style-type: none"> · Possibility of fast connection and handle detachment from a tube with an insert by means of a push-button mechanism: <i>availability</i>
	<ul style="list-style-type: none"> · The tube with an insert is compatible to all types of handles for monopolar tools: <i>availability</i>

		37. Working insert for forceps by REDDICK-OLSEN, reinforced. Both branches are mobile- <i>1pc</i>
		· Diameter mm: <i>not more than 5mm</i>
		· Length cm: <i>not less than 36cm</i>
		38. Working insert for forceps, for good dissection, fenestrated, one branch is mobile – <i>1pc</i>
		· Diameter, no more, than a mm: <i>not more than 5mm</i>
		· Length, at least, cm: <i>not less than 36cm</i>
		39. Working insert for forceps, for biopsy by MAHNES, one branches is mobile, <i>diameter 5mm, length 36cm– 1pc</i>
		40. Dismountable scissors, rotary - <i>1pc</i>
		· The plastic handle, without a clamp: <i>availability</i>
		· With the curved edges, with 2 mobile branches: <i>available</i>
		· Diameter, mm: <i>not more than 5mm</i>
		· Length, cm: <i>not less than 36cm</i>
		· With connection for monopolar coagulation: <i>availability</i>
		· Push-button connection of a tube with the handle: <i>availability</i>
		41. Dismountable scissors, rotary - <i>1pc</i>
		· The plastic handle, without ratchet mechanism: <i>available</i>
		· With the curved conical edges, with gear edges, both branches are mobile: <i>available</i>
		· Diameter, mm: <i>not more than 5mm</i>
		· Length, cm: <i>not less than 36cm</i>
		· With connection for monopolar coagulation: <i>availability</i>
		42. Scissors insert – <i>1pc</i>
		· Edges with section, spoon-shaped: <i>available</i>
		· Both branches are active: <i>availability</i>
		· Diameter, mm: <i>not more than 5mm</i>
		· Length, cm: <i>not less than 36cm</i>
		· With connection for monopolar coagulation: <i>availability</i>
		43. Electrode for coagulation and dissection - <i>1pc</i>
		· L-shaped form of an electrode: <i>available</i>
		· With connection for monopolar coagulation: <i>available</i>
		· Diameter, mm: <i>not more than 5mm</i>
		· Length, cm: <i>not less than 36cm</i>
		· Articulation distal end of an electrode: <i>availability</i>

		44.The Dissection electrode, L-shaped– 1pc , the size is 5 mm, length is 36 cm , with connection for monopolar coagulation, in a set :
		· the external tube isolated: available
		· the plastic handle - an electrode: available
		· L-shaped tip: available
		45.The reinforced bipolar forcers. Are especially convenient for a dissection, rotary, model on CLERMONT-FERRAND, with two opening branches, poorly curved to the left – 1pc
		· Diameter, mm: not more than 5mm
		· Length, cm: not less than 36cm
		· The ergonomic ring handle, with the increased contact surface of rings for fingers: Available
		· Push-button connection of a tube with a working insert provides fast collection and tool analysis: Available
		· The tube with a working insert is compatible to all types of handles for the reinforced bipolar tools: availability
		46.Working insert for the reinforced bipolar forcers. Are especially convenient for a dissection, rotary, model on CLERMONT-FERRAND, with two opening branches, poorly curved to the left– 1pc
		· Diameter, mm: not more than 5mm
		· Length, cm: not less than 36cm
		· Push-button connection of a tube with a working insert provides fast collection and tool analysis: availability
		47.The clipapplicator – 1pc
		· It is applied for average and big clips, the size, mm: not less than 8mm
		· Dismountable, rotated: available
		· The metal handle, with the ratchet mechanism: availability
		48. The clipapplicator, for use with Ethicon titanic clips LT-300 , dismountable,rotated, with a clamp for maintenance branch holding, the size not less than of 10 mm, length of 36 cm , the metal handle with a clamp – 1pc
		49.Titanium-Clips, medium-large, sterile, for use with the clipapplicator – 2 pc
		· Diameter, mm: not less than 8mm
		· Box with not less than 16 sterile cartridges, 10 clips each
		50.KOH Macro Needle Holder, ergonomic axial handle with disengage able ratchet, ratchet release on the right side- 1pc
		· Diameter, mm: not more than 5mm
		· Length, cm: not less than 33cm
		· Carbide-tungsten material: available

		<ul style="list-style-type: none"> Left curved jaws: <i>available</i> 	
		51.KOH Macro Needle Holder, ergonomic axial handle with disengage able ratchet, ratchet release on the left side,right curved jaws- <i>1pc</i>	
		<ul style="list-style-type: none"> Diameter, mm: <i>not more than 5mm</i> 	
		<ul style="list-style-type: none"> Length, cm: <i>not less than 33cm</i> 	
		<ul style="list-style-type: none"> Carbide-tungsten material: Available 	
		52. CICE Knot Tier CLERMONT-FERRAND Model - <i>1pc</i>	
		<ul style="list-style-type: none"> Diameter, mm: <i>not more than 5mm</i> 	
		<ul style="list-style-type: none"> Length, cm: <i>not less than 36cm</i> 	
		53.Dismantling Fan Retractor, distendable– <i>1 pcs</i>	
		<ul style="list-style-type: none"> Diameter, mm: <i>not more than 5mm</i> 	
		<ul style="list-style-type: none"> Length, cm: <i>not less than 36cm</i> 	
		54. The container for sterilization and sterile storage - <i>1pc</i>	
		<ul style="list-style-type: none"> Dimensions, mm: <i>not less than 600 x 300 x 210mm</i> 	
		<ul style="list-style-type: none"> Internal dimensions, mm: <i>not less than 548 x 267 x 186mm</i> 	
		<ul style="list-style-type: none"> Consists from: - Reservoir of the container, - a container Cover, - the Antimicrobial disk (MicroStop): <i>availability</i> 	
		55.Oil for greasing of tools, a small bottle, <i>not less than 50ml– 2pcs</i>	
		<ul style="list-style-type: none"> Opportunity to autoclave the greased tools: availability 	
		56.Oil dropper– <i>1pc</i>	
		57.Brush for Cleaning sharp jaws- <i>2pcs</i>	
		58.Special-lubricant for stopcocks- <i>2pcs</i>	
		<ul style="list-style-type: none"> Possibility of application for greasing of locs of endoscopes: <i>available</i> 	
		59.Cleaning brush for tubes– <i>1pc</i>	
		<ul style="list-style-type: none"> Length, cm: <i>not less than 50cm</i> 	
		<ul style="list-style-type: none"> Diameter, mm: <i>not more than 5mm</i> 	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
22	Gynecological Couch	Manufactured from chrome plated steel tube, three sections with Independent manual controls and Trendelenburg position. Top is upholstered with washable plastic material and flame retardant. Complete with padded Goepel leg-holders and S.S. bowl.	1

		Knock down construction.	
		Standards:	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
23	Tracheostomy instrument set	<i>Tracheostomy instrument set</i> Hemostatic clamp 1x2-toothed,serrated, curved No.1 - 4pcs Hemostatic mosquito clamp, straight - 4pcs Suture needle 4A1-0,8x32 - 10pcs Suture needle 4B1-0,8x32 - 10pcs General surgical needleholder,160 mm - 2pcs Round sterilizing box with filter □□-6 - 1pcs Sharp tracheotomy hook - 2pcs Surgical retractors by Farabeuf (set) - 1pc One sharp-pointed scissors,straight,140 mm - 2pcs Blunt-pointed scissors vertically-curved,140 mm - 2pcs General-purpose dissecting tweezers, □□150□2,5 - 2pcs General-purpose dressing tweezers, □X 150□2,5 - 2pcs Tracheotomy retractor - 1pc Bellied scalpel, medium □□l 50□40 - 5pcs Pointed scalpel, medium □b 150□40 - 5pcs Plastic tracheotomy tubes (set) - 5pcs Tracheostomy tubes for infants and children (set) - 1set Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	1
24	Scale for Adults	Capacity – 5...150kg Graduation- 100gr Precision- 25gr, deviation not more than 10% Height rod: <i>availability</i> Washable surface.	5

		Standards	
		Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	
25	Examination Lamp	Lamp, Examination. Mobile on 5 Castors, 5 star-shaped. Heavy and stable stand. Halogen Type Height of Lamp Head is adjustable Light Intensity shall be <i>not less than 50000 Lux at 50sm</i> with beam angle <i>10°</i> , <i>deviation not more than 10%</i> Color Intensity: <i>single reflector 3000°K</i> , <i>deviation not more than 10%</i> Power rating: <i>min. 50W, 220V/50Hz.</i> Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent).	15
26	Dryer	Dryer Dryers are designed for drying of linen with automatic control (not less than 10 programmes), filter clogging warning and cool air blow mode. Nominal capacity: <i>not less than 25kg</i> Geometric volume of inner cylinder: <i>not less than 550L</i> Working capacity, kg/h: <i>not less than 50</i> Residual humidity after hydro-extraction, %: <i>not more than 10</i> Nominal rating power Electric motor of drive: <i>not more than 1.1kW</i> Electric motor of fan: <i>not more than 0,55kW</i> Heating elements: <i>not more than 30kW</i> Power: <i>380V/50Hz</i> Accessories: The set includes all the necessary additional devices and accessories to complete functioning of the equipment Standards: Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent) or RF certificate.	1

27	Washer extractor	<p>Washer extractor</p> <p>Washers are designed for washing, rinsing and extraction of linen. Automatic control system based on controller has a memory capacity not less than 50 washing programmes, 10 of which are programed at plant and other 40 programmes can be set up by user of own choice.</p> <p>70% residual humidity allows to exclude a centrifugal hydro-extractor from technological process and to transfer linen directly into dryer or flatwork dryer machine.</p> <p>Nominal capacity: <i>not less than 25kg</i></p> <p>Geometric volume of inner cylinder: not less than 250 dm³</p> <p>Control type of technologic process: <i>automatic</i></p> <p>Front panel, inner and outer cylinder: <i>stainless steel</i></p> <p>Side panels and control panel: <i>painted galvanized steel</i></p> <p>Washer extractors electric heated type: <i>availability</i></p> <p>G-factor (wash): <i>0.7 ... 0.9, deviation not more than 10%</i></p> <p>G-factor (spin): <i>110, deviation not more than 10%</i></p> <p>Nominal rating power</p> <p>Electric motor of drive: <i>not more than 3kW</i></p> <p>Heating elements: <i>not more than 30kW</i></p> <p>Power: <i>380V/50Hz</i></p> <p>Dosing systems for liquid detergents (option): <i>availability</i></p> <p>Accessories:</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>Documentary evidence (copy of certificates) that the Manufacturer is qualified with ISO9001 (or equivalent) and ISO13485 (or equivalent). The goods must be certified with CE Mark according to 93/42/EEC (or equivalent) or RF certificate.</p>	1
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<i>N</i>	<i>NAME</i>	<i>TECHNICAL SPECIFICATION</i>	<i>QUANTITY</i>
		<i>"Center of Hematology named after R.H. Yeolyan" CJSC Medical Furniture- Lot 4</i>	
1	Reception desk for first floor	<p>Registration desk of laminate 18mm thick, P or U - shaped.</p> <p>Dimensions: <i>Length 10970mm, length side 1840mm and 7290mm, height 1050 mm, height of the working surface of 750mm, deviation not more than 10%</i></p> <p>4 places the insertion of 1000 mm thick MDF, aluminum compounds piece 100mm thick.</p> <p>On the left side of for the three jobs to be manufactured space for computers with one shelf and the free space above it. In Aluminium inserts must be installed lights</p> <p><i>The Purchaser could ask the changes of the dimensions during the contract implementation, subject such changes will not create some additional costs for the Supplier.</i></p>	1
2	Reception desk	<p>Registration desk of laminate 18mm thick with 2 round-shape attachments to both sides.</p> <p>Dimensions: <i>Length 3300mm, 800mm length of the semicircular parts and 1100mm. The face of the height of 1400mm, 1050mm height of the remaining parts to the height of the working surface of 750mm, deviation not more than 10%</i></p> <p>The surface must be made of solid bush thick MDF 1000mm, aluminum compounds piece 100mm thick. On the left side for a single location must be made a place for the computer, with two shelves, one of which must be locked and the free space on it. In Aluminum inserts must be installed lights</p> <p><i>The Purchaser could ask the changes of the dimensions during the contract implementation, subject such changes will not create some additional costs for the Supplier.</i></p>	2
3	Table for laboratory equipment	<p>Workbench for storage of laboratory equipment and procedures such as Tests / Examinations without use of Water (Dry Workbench)</p> <p>Bench Top shall be made from MDF, thickness <i>not less than 36mm</i>, laminated on both sides (Counterbalanced). Laminate thickness <i>not less 18 mm</i>. Bench Top shall match “Humid Bench Tops “in the Laboratory and for that purpose Bench Top shall be made from one piece.</p> <p>Dimensions <i>not less 1500 x750 x 700mm.</i></p> <p>Shelving shall be constructed with Laminated Plywood on 2 Levels: 1st Level at 400mm and 2nd Level at 700mm from Bench Top. Widths shall be respectively 150 and 300 mm (Top Shelf). Shelves shall be supported by lateral and walled-panels from identical materials</p> <p>The Upper Shelf shall be equipped with downward-projecting Lamp with at least 600 mm length, with accessible switch.</p> <p>The Workbench shall be equipped with 4 Grounded Electrical Socket Outlets, 10A. situated on the Wall Panel at 950mm FFL (From Finished Floor)</p> <p>Lower Cupboard with 2x500mm width, height: 800mm±50mm Doors (Large opening Capability), Laminated construction, 2 Laminated Shelves. Handles and Locks. May be optionally made from Steel and independent from the Bench</p> <p>Set of 3 Drawer s , 400 mm wide , Laminated material , 2 small with</p>	32

		150mm±10%, height and 1 Large with 300mm±10%, height with silent ball. Bearings Sliders with end safety , Handles and Lock only for the large drawer.	
4	Plastic Chairs	Fixed plastic chair 400/450mm ±10%, with backrest. Tubular steel frame. Height of seat – 400...500 mm	750
5	Writing Desk	Laminated Top. Single Pedestal Size: height –700mm±10%, Length -1400mm±10%, Width – 700mm±10%, With three drawers and one shelf totally with 600mm height, length of each 400mm, 3 drawers with nylon ball bearing sliders and one with lock.	115
6	Cabinet	Plastic Laminated frame Cabinet , 2 Doors with Locks Size: height – 1800...1900mm length – 800...900mm width – 450...550mm 5 Shelves	90
7	Chair	Washable. Tubular steel frame. Seat and backrest from leather-cloth upholstered. Revolving typing chair, 5 casters base, with armrest, adjustable height with gas pump. Size: height – 600mm length - 410mm width – 400...500 mm	125
8	Wardrobe	Length \ height \ depth (width) 1500...1600mm x 1960...1980mm x 500...520 mm Fully constructed of plastic laminated 18 mm in thicknees, with two door cabinets on the right side, 20 sm fare from upper and lower levels. Indoor a hanger prepared to be nickel plated tube. Wardrobe on the left side of the upper and lower parts of the two and one single-door cabinet 60 cm in height. All doors made of glossy profile and woodchip board.	41

		All Shelves made of laminated woodchip board.	
		Backside of the wardrobe, covered with sinks fibreboard (□□□) -of 2.5-3 mm thicknees, with cut for the refrigerator.	
		Cabinet legs are nickel-plated, 120 mm in height.	
9	Bed With Backrest	Manual hospital bed	48
		Function (<i>not less than present functions or analog</i>): lifting, leg bending, whole bed HI-LO adjustment	
		Bed plate size: <i>1930x850x450/770mm, deviation not more than 10%</i>	
		Max head elevation: <i>not less than 70°</i>	
		Max foot evevation: <i>not less than 35°</i>	
		Free HI-LO controls offfolded-type guard rails, safe and reliable, easy opeartions	
		High quality carbon-steel is applied for the main body of the bedstead, all surface antirust treatment, enamel paint of antibacterial powder	
		One off impact molding of cold-rolled sheet for bed plate, spraying paint of static power, impact-resistant and antirust	
		The bed is mounted on four 125 mm castors, two fixed at head end and two swiveling with independent brakes at foot end.	
		Bumpers at all 4 corners.	
		Include accessories:	
		Mattress with high-density stretchy sponge, cover withwaterproof cloth only. Overall size L/W/H: <i>1930x850x450mm, deviation not more than 10%</i>	
		Standards:	
		The documentary evidence that the Manufacturer is qualified with ISO9001 certificate or equivalent.	
10	Rehabilitation Bed (electric bed)	Rehabilitation Bed (electric bed)	13
		Electric bed: <i>not less than 2 function</i>	
		Function (<i>not less than present functions or analog</i>): back lifting, leg bending, HI-LO adjustment, bed head/end titling, head board, foot board: ABS integrated forming	
		Bed plate size: <i>1930x850x450/770mm, deviation not more than 10%</i>	
		High quality carbon-steel is applied for the main body of the bedstead, all surface antirust treatment, enamel paint of antibacterial powder	
		One off impact molding of cold-rolled sheet for bed plate, spraying paint of static power, impact-resistant and antirust	

		<p>Full enclosed permanent magnet DC motor, strong thrust, low noise in operation, waterproof and dustproof UPS, making nursing more reliable and professional</p> <p>4 central controlling casters, great bearing capacity, flexible rotation, stable and reliable</p> <p>The bed is mounted on four 125 mm castors, two fixed at head end and two swiveling with independent brakes at foot end.</p> <p>4 Section Mattress Platform fitted with epoxy- coated steel weldmesh backrest and knee brake adjustable by electro-hydraulic action.</p> <p>Bumpers at all 4 Corners</p> <p>Include accessories: Mattress with high-density stretchy sponge, cover withwaterproof cloth only. Overall size L/W/H: <i>1930x850x450mm, deviation not more than 10%</i>, IV Rod,, Side Folding-down rails (Pair).</p> <p>Standards:</p> <p>The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods have the CE (Conformité Européenn) Mark (Device).</p>	
11	Baby bed	<p><i>Baby bed</i></p> <p>Durable frame: Made of cold-rolled steel plate and tube, coated by electrostatic spray after twice phosphatization.</p> <p>Steel bedboard</p> <p>Foldable al-alloy handrails</p> <p>With silent wheels with cross brakes</p> <p>Fully tested sturdy contruction capable of taking a maximum user weight of up to 200kg</p> <p>Mattress: <i>availability</i></p> <p>Technical Parameters:</p> <p>Overall size (LxWxH): 1210x690x600mm, deviation not more than 10%</p> <p>Standards:</p> <p>The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent</p>	5
12	Baby crib	<p>Trolley manufactured from rust-proofed steel tube mounted on four casters Ø60mm. Crib manufactured from Plexiglas, with aeration holes and with position TR/RTR. Length-825 mm</p> <p>Standards:</p> <p>The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent.</p>	5
13	Table for wrapping for infants	<p>Washable, soft cover, one shelve</p> <p>Size: height-at least 900 mm</p> <p>length-1100-1200 mm</p>	2

		width—700-800 mm	
		Mattress for wrapping table corresponding to the size table	
14	Hanger	Coat rack without doors, laminated plank.	160
		Metallic hooks 3...4 unit	
		Size: Height - 600mm±10%,	
		Length -600mm±10%	
15	Soled linen trolley	Chrome plated frame. Mounted on Ø 75 mm casters. Removable bag. Knock down construction. 1 Bag. 750mmx550mmx550mm ± 10%	14
16	Bowl's stand	Constructed from chrome plated steel tube. Variable height.	12
		Stainless Steel bowl. Single	
		BOWL - Stainless steel 18/10, Ø 32 cm.	
		Capacity: <i>not less than 4L</i>	
		Stainless steel base. 5 castor base ø 50 mm.	
17	Medical examination couch	Couch for Patient Examination, shall be 2 Section Type (Backrest)	40
		Adjustable Backrest thru manual Ratchets made of chrome-plated steel, Action on both sides rigid top , Mattress with anti-fire PVC & sponge	
		Upholstered simile-Leather, Washable CoverChrome-Plated heavy duty tubular Frame with provision for VisesLongitudinal strengthening Bar. Floor protection by Rubber Studs.	
		Dimensions L/W/H: 1850mmx620mm/750mm ±10%	
18	Cabinet for medicine	Intended for storage of DrugsShall be constructed from laminated MDF or Sheet Steel protected with bakedEpoxy Powder coating supported by legs with adjustable height Studs. Plinth maybe optionally proposed	110
		Shall have 2 Leaves Door with Handles and Locks	
		Shall have 4 height shelves	
		Shall have a toxics storage Compartment, Red Color , with Locks	
		Dimensions:	
		Depth: 400 mm±10%	
		Length: 600 mm±10%	
		Height: 1600 mm±10%	
19	Bedside Locker	Bedside Locker or Cabinet for Patient Bedroom accommodation	50

		Shall be fully constructed from laminated Plywood, 450/550mm $\pm 10\%$, height 700mm $\pm 10\%$, Top gallery or embossed plastic recess for objects safety Shall be delivered as kit to be assembled Shall have 2 Castors (Orientale) and 2 Feet with rubber Studs Upper Drawer 450/200mm $\pm 10\%$, with Nylon ball bearing Sliders. Lower drawer 450/400mm $\pm 10\%$,	
20	Color LED TV - 42"with holder	Color LED TV Set. Russian/English OSD Size: <i>not less 42"</i> Automatic/semi-automatic tuning On-screen channels indication Direct program choice TV set Remote control 2 batteries Antenna Operating voltage 50Hz, 220V. Metal frame holder affix on wall	13
21	Color LED TV - 32"with holder	Color LED TV Set. Russian/English OSD Size: <i>not less 32"</i> Automatic/semi-automatic tuning On-screen channels indication Direct program choice TV set Remote control 2 batteries Antenna Operating voltage 50Hz, 220V. Metal frame holder affix on wall	68
22	Refrigerator	Capacity- <i>not less than 90 liters</i> Operating voltage 50Hz, 220V. Euro standard plug Washable surface. Standards:	70

		The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent or CE (Conformité Européenn) Mark (Device) instead of above mentioned ISOs.	
23	Cabinet with Shelves	Laminated cabinet with: 1000mm length±10%, 1800 mm height and 450mm width±10%. Should have 3 adjustable shelves with 2000mm length and 450mm width±10%. Load bearing capacity <i>not less 50kg.</i>	110
24	Table	Laminated top, chrome plated legs. Size: height –700...750 mm. length-500 mm. width- 800 mm.	100
25	Nurse station	Registration desk of laminate 18mm thick Dimensions: <i>Length 1600mm. The face of the height of 1400mm, 1050mm height of the remaining parts to the height of the working surface of 750mm, deviation not more than 10%</i> The surface must be made of solid bush thick MDF 1000mm, aluminum compounds piece 100mm thick. On the left side for a single location must be made a place for the computer, with two shelves, one of which must be locked and the free space on it. In Aluminium inserts must be installed lights <i>The Purchaser could ask the changes of the dimensions during the contract implementation, subject such changes will not create some additional costs for the Supplier.</i>	8
26	Table for medical instruments (B)	Table Designed for Surgical Instruments Preparation and Display Shall be made entirely of Stainless Steel , Top Tray shall have Rounded-Edges andshall be Sound-Deadened Heavy Gauge Stainless Steel Framing, Mobile on Anti-Static Casters, Swiveling with Brakes and mounted on Noiseless Ball BearingsGuard Rails shall be as Optional Indicative Dimensions: 1400/600mm, height - 700...800mm.	14
27	Table for medical instruments (A)	Table Designed for Surgical Instruments Preparation and Display Shall be made entirely of Stainless Steel , Top Tray shall have Rounded-Edges andshall be Sound-Deadened Heavy Gauge Stainless Steel Framing, Mobile on Anti-Static Casters, Swiveling with Brakes and mounted on Noiseless Ball BearingsGuard Rails shall be as Optional Indicative Dimensions: 500/600mm, height - 700...800mm.	70

28	Waste bin	Constructed from stainless steel or chrome-plated steel	300
		Capacity: <i>not less 12L</i>	
		Washable surface, tightly closing cover. Pedal action	
29	Folding screen	Washable. Metallic carcass. With three moveable leaves.	25
		Size: height – 1800 mm	
		length – 1700...1800 mm	
		length of leaf – 500...600 mm	
30	Mounting step	Constructed from chrome-plated or stainless steel tube. Q-ty of steps -2,	15
31	Infusion fluid holder	IV Pole , Mobile on Castors	50
		Adjustable height	
		2 Hooks	
32	Revolving chair with gas pump	Surgeon's chair with 5 casters. Variable height from 50 to 60 cm. Upholstered seat,w/gas pump	15
33	Changing room locker, single door	Changing room locker with low level shelf with height of 300mm and 2 coat hooks.	180
		Washable finish. Ventilated. Nameplate on door.	
		Lockable, with two keys and key tags with printable label.	
		width - 300mm ±10%,	
		depth - 450mm ±10%,	
		height - 1700mm ±10%.	
34	Refrigerator	Temperature controlled within the range of +2°÷ +8° C.	30
		Volume <i>not less 250L</i>	
		Number of shelves – 3 or 4.	
		With defrosting system	
		Power Requirements: 220 ± 10% V. 50 Hz.	
		Standards:	
		The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent or CE (Conformité Européenn) Mark (Device) instead of above mentioned ISOs.	

35	Kitchen sink with electric hob	Double sink with one faucet (hot and cold) Sizes: 1250mmx600mmx900mm ±10% Ceramic electric hob: <i>availability</i> Cupboard with two cabins, each with two-leaved. Laminate. Table side should be made from plastic waterproof board.	5
36	Kitchen furniture (stainless steel)	<p><i>Kitchen furniture (stainless steel)</i></p> <p><i>Electric cooker - 1pc</i></p> <p>The proposed industrial electric stove shall be designed for the professional kitchen. It shall meet the highest standards of reliability and safety, as well as it shall be simple and easy to use, high performance, regardless of the duration of the period of operation.</p> <p>Electric cooker with six hot plates and industry oven</p> <p>Material: <i>stainless steel</i></p> <p>Dimensions (L / W / H): <i>147.5x89.7x85.0cm, deviation not more than 10%</i></p> <p>Power: <i>380V, 3.8kW deviation not more than 10%</i></p> <p><i>Cutting tables and production from the board - 1pc</i></p> <p>Material: <i>stainless steel AISI 304 and cold rolled, galvanized steel sheet</i></p> <p>In the support legs with height adjustment up to 20mm</p> <p>Dimensions (L / W / H): <i>1000x600x850cm,</i></p> <p><i>Bath for washing Double stage - 1pcs</i></p> <p>Material: stainless steel AISI 304 ;</p> <p>Washers welded tank: stainless steel AISI 304, 0.8 mm thick;</p> <p>Depth capacity: <i>300mm</i></p> <p>In the support legs with height adjustment up to 20mm;</p> <p>Supports are made of galvanized steel;</p> <p>Dimensions (L / W / H): <i>120.0x60.0x86.0cm,</i></p> <p><i>Sliding wardrobe - 1pcs</i></p> <p>Sliding wardrobe made of stainless steel AISI 304</p> <p>Made of stainless steel AISI 304;</p> <p>Metal thickness of 0.8 mm.</p> <p>Adjustable feet to 20 mm;</p> <p>The rear wall and the bottom - stainless steel AISI 304;</p> <p>2 shelves, 3 levels of installation;</p> <p>Supports are made of galvanized steel. Welded structure made of stainless steel.</p> <p>Kitchen cabinet designed for storing kitchen utensils, food and utensils.</p> <p>Dimensions (L / W / H): <i>140.0x60.0x180.0cm,</i></p>	1

		Wall shelf (closed) - 1pcs Material: stainless steel AISI 304 Metal thickness 0.8 mm; The rear wall of galvanized steel; Shelf is designed for temporary storage of utensils and equipment in professional kitchens. Internal removable shelf, Internal removable shelf, adjustable in height in three positions. Dimensions (L / W / H): 140.0x40.0x60.0cm , Ventilation umbrella - 1pcs Welded structure made of AISI 304 stainless steel 0.8 mm thick; Vent hood for stolovyhi used to clean air in the kitchen grease, oil, smoke and steam. Vent hood is connected to the exhaust ventilation system. Suspended above the equipment located at a distance from the wall. Vent hood is connected to the exhaust ventilation system. Dimensions (L / W / H): 200.0x150.0x50.0cm , Working table with 2 slide doors - 1pc Material: stainless steel AISI 304 Metal thickness 0.8 mm; In the support legs with height adjustment up to 20mm Dimensions (L / W / H): 120.0x60.0x85.0cm , Shelf for plates- 1pc Material: stainless steel AISI 304 Shelf contains 70 plates Dimensions (L / W / H): 98.5x31.0x59.0cm	
37	Patient trolley	Manufactured from chrome plated steel tube Upholstered fixed Top covered with washable plastic material , Flame Retardant Complete with side Rails and IV Stand Mounted on 4 casters 100 mm two of which with brakes Knock down construction. Length min. –2000 mm. Height - 700 mm	6
38	Movable table	Material: Metal	87

		Laminated board for table top, leg supports with high quality carbon-steel surface spraying painted, electroplated internal sliding tube .controllable air spring height adjustment. gray rubber controllable casters.	
		Standards:	
		The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent	
39	Special Chair	<p>Medical multi-function chair is intended for easy placement of the patient during various medical procedures. It ensures optimal conditions for medical personnel in treatment rooms, blood transfusion stations, donor centers and other medical and sanatorium institutions.</p> <p>Max lowest position of the chair: <i>not more than 545mm</i></p> <p>Chair lift range: <i>not more than 260mm</i></p> <p>Max highest position of the chair with the lifted back section: <i>not more than 1350mm</i></p> <p>Length of the chair in the lowest position with the lifted back section and lowered leg section: <i>not more than 1060mm</i></p> <p>Overall width of the chair: <i>not more than 730mm</i></p> <p>Width with side rails: <i>620mm</i></p> <p>Seat length in lying position: <i>not more than 1930mm</i></p> <p>Width (seat, backrest and leg section): <i>565mm, deviation not more than 10%</i></p> <p>Seat depth: <i>460mm, deviation not more than 10%</i></p> <p>Angle adjustment of the back section: $(0\pm5)^{\circ}\dots(70\pm5)^{\circ}$</p> <p>Angle adjustment of the seat section(fixed): $(-7\pm2)^{\circ}$</p> <p>Angle adjustment of the leg section: $(-90\pm5)^{\circ}\dots(0\pm5)^{\circ}$</p> <p>Adjustment range of the infusion pole (IV pole): <i>1420...2250mm</i></p> <p>Load capacity: <i>not less than 160kg</i></p> <p>Power: 220V/50Hz</p> <p>Chair must have three sections with independent height adjustment, back section tilt and leg section tilt: <i>availability</i></p> <p>Bed for arm must be stepless height, angle and position adjustable: <i>availability</i></p> <p>Bed for arm must have the ability to smooth stepless adjustment to the width by adjusting the angular position of the L-shaped strut around its axis: <i>availability</i></p> <p>Bed for arm must be angle adjustable (around three axes) by means of the ball-joint clamp: <i>availability</i></p> <p>It must be possible to roll chair in the room by two built-in castors: <i>availability</i></p> <p>Chair must have a steady position on the floor due to the pair of height adjustable rear supports: <i>availability</i></p> <p>Chair must have adjustable headrest pad with special soft filler: <i>availability</i></p>	22

		<p>Chair must have an infusion pole (IV pole). Height adjustment of the IV pole must be done with one hand: availability</p> <p>IV pole can be fixed on both side rails of the chair: availability</p> <p>Removable accessories can be placed on the stainless steel side rails (10x25) mounted on the sides of the seat: availability</p> <p>All open metal surfaces must be made from chrome-nickel stainless steel with high-quality polymer coating: availability</p> <p>External surfaces of the chair allow repeated disinfection with the help of aldehyde-based disinfectants without damage to the quality of product: availability</p> <p>Accessories:</p> <p>Medical multi-functional chair</p> <p>Hand remote control</p> <p>Power cord</p> <p>Grounding cable</p> <p>Infusion pole (IV pole)</p> <p>Headrest pad</p> <p>Set of additional accessories KPP-15 for upper positioning arm surgeries (bed for arm)</p> <p>Cover for bed for arm</p> <p>Service manual</p> <p>The set includes all the necessary additional devices and accessories to complete functioning of the equipment</p> <p>Standards:</p> <p>The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent or CE (Conformité Européenne) Mark (Device) instead of above mentioned ISOs.</p>	
40	Bedside cabinet	<p>Material: ABS engineering plastic. Towel racks and hooks on both sides to hold light things. Extendable table board, adjustable laminates in the cabinet</p> <p>Standards:</p> <p>The documentary evidence that the Manufacturer qualified with ISO9001 certificate or equivalent and the goods are certified with ISO13485 or equivalent or CE (Conformité Européenne) Mark (Device) instead of above mentioned ISOs.</p>	87
41	Reception desk for	Registration desk of laminate 18mm thick	1

	emergency	Dimensions: <i>Length 2000mm. The face of the height of 1400mm, 1050mm height of the remaining parts to the height of the working surface of 750mm, deviation not more than 10%</i>	
		The surface must be made of solid bush thick MDF 1000mm, aluminum compounds piece 100mm thick. On the left side for a single location must be made a place for the computer, with two shelves, one of which must be locked and the free space on it. In Aluminum inserts must be installed lights	
		<i>The Purchaser could ask the changes of the dimensions during the contract implementation, subject such changes will not create some additional costs for the Supplier.</i>	

All goods and materials to be incorporated in the goods will be new, unused, and of the most recent or current model.

General requirement:

All the Goods included in Lot 1, Lot 2 and Lot 3 shall be accompanied with User manuals in English language with Russian translations.

Russian translation is not required for items: from N14 to N16 and from N22 to N25 under Lot 3.

User manuals in English language required only for goods N9; N10 from N20 to N22 and N34 under Lot 4.

Also Russian translation is not required for Lot 4.

Annex 1

Lot-1

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>		<i>Manufacturer's name and country of origin</i>	<i>Model</i>
<i>1</i>	<i>Digital Universal X-Ray Unit</i>	<i>1</i>	<i>Unit</i>		
<i>2</i>	<i>Mobile X-Ray</i>	<i>1</i>	<i>Unit</i>		
<i>3</i>	<i>UPS for CT scanner and digital universal X-ray</i>	<i>1</i>	<i>Unit</i>		
<i>4</i>	<i>Echocardiography system (5 probes) with printer</i>	<i>1</i>	<i>Unit</i>		
<i>5</i>	<i>Portable ultrasound</i>	<i>1</i>	<i>Unit</i>		
<i>6</i>	<i>Tabletop dry imager</i>	<i>1</i>	<i>Unit</i>		
<i>7</i>	<i>X-ray Film Viewer</i>	<i>10</i>	<i>Unit</i>		
<i>8</i>	<i>CT scanner 32 slice</i>	<i>1</i>	<i>Unit</i>		
<i>9</i>	<i>Blood components irradiation device</i>	<i>1</i>	<i>Unit</i>		
<i>10</i>	<i>Ultrasound (3 probes) with printer</i>	<i>1</i>	<i>Unit</i>		

Lot-2

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>		<i>Manufacturer's name and country of origin</i>	<i>Model</i>
1	<i>Hematological analyzer</i>	1	<i>Unit</i>		
2	<i>Automatic Chemistry Analyzer</i>	1	<i>Unit</i>		
3	<i>Critical Care Analyzer</i>	1	<i>Unit</i>		
4	<i>Coagulometer automatic</i>	1	<i>Unit</i>		
5	<i>Urinalysis System</i>	2	<i>Unit</i>		
6	<i>Autoclave (horizontal)</i>	2	<i>Unit</i>		
7	<i>Autoclave Table-Top</i>	2	<i>Unit</i>		
8	<i>Hot air sterilizer</i>	8	<i>Unit</i>		
9	<i>Incubator</i>	8	<i>Unit</i>		
10	<i>Microscope Binocular</i>	10	<i>Unit</i>		

11	Water Bath	10	Unit		
12	Table Top Centrifuge 30x15ml	8	Unit		
13	Table Top Centrifuge 12x15ml	9	Unit		
14	Table Top Centrifuge 6x30ml	1	Unit		
15	Table Top Centrifuge 24x2.0 ml	1	Unit		
16	Blood Cell Counter with windows	10	Unit		
17	Water Still 12L/H	4	Unit		
18	Pure Water System 40L/H	1	Unit		
19	Automatic instrument for the determination of the ESR	1	Unit		
20	Fume Hood	11	Unit		
21	Trinocular microscope with photocamera	2	Unit		
22	Analyzer of blood group and rhesus	1	Unit		
23	Automatic apparatus for electrophoresis with immunofixation	1	Unit		
24	Plasma thawing bath	8	Unit		
25	Blood components heater	8	Unit		
26	Apparatus for extracorporeal correction homeostasis	1	Unit		

27	Freezer	3	Unit		
28	Laboratory freezer-refrigerator	3	Unit		
29	Apparatus for extracorporeal photochemotherapy	1	Unit		
30	Ozone Sterilizer	1	Unit		

Lot-3

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>		<i>Manufacturer's name and country of origin</i>	<i>Model</i>
1	<i>Video pediatric gastroscope and video colonofiberscope</i>	1	<i>Unit</i>		
2	<i>Electrocardiograph</i>	3	<i>Unit</i>		
3	<i>OT Light (with multi color chip)</i>	2	<i>Unit</i>		
4	<i>Mobile OT Light (with single color chip)</i>	1	<i>Unit</i>		
5	<i>Electrosurgical Unit</i>	2	<i>Unit</i>		
6	<i>Ventilator</i>	2	<i>Unit</i>		
7	<i>Nebulizer</i>	4	<i>Unit</i>		
8	<i>Oxygen Concentrator</i>	2	<i>Unit</i>		
9	<i>Defibrillator with monitor</i>	3	<i>Unit</i>		
10	<i>Patient Monitor</i>	16	<i>Unit</i>		
11	<i>Syringe pump</i>	35	<i>Unit</i>		
12	<i>Volumetric Infusion Pump</i>	45	<i>Unit</i>		
13	<i>Suction Pump</i>	4	<i>Unit</i>		

14	<i>Operating instrument set</i>	2	<i>Unit</i>		
15	<i>AMBU emergency case</i>	2	<i>Unit</i>		
16	<i>UV-Air Flow Cleaner– Recirculators</i>	28	<i>Unit</i>		
17	<i>Anesthesia trolley (anesthesia machine with ventilator and monitor)</i>	1	<i>Unit</i>		
18	<i>Portable anesthesia machine</i>	1	<i>Unit</i>		
19	<i>Operating table multifunctional</i>	1	<i>Unit</i>		
20	<i>Operating Table Universal (Electric)</i>	2	<i>Unit</i>		
21	<i>Laparoscopy set</i>	1	<i>Unit</i>		
22	<i>Gynecological Couch</i>	1	<i>Unit</i>		
23	<i>Tracheostomy instrument set</i>	1	<i>Unit</i>		
24	<i>Scale for Adults</i>	5	<i>Unit</i>		
25	<i>Examination Lamp</i>	15	<i>Unit</i>		
26	<i>Dryer</i>	1	<i>Unit</i>		
27	<i>Washer extractor</i>	1	<i>Unit</i>		

Lot-4

<i>Line Item N°</i>	<i>Description of Goods</i>	<i>Quantity</i>		<i>Manufacturer's name and country of origin</i>	<i>Model</i>
<i>1</i>	<i>Reception desk for first floor</i>	<i>1</i>	<i>Unit</i>		
<i>2</i>	<i>Reception desk</i>	<i>2</i>	<i>Unit</i>		
<i>3</i>	<i>Table for laboratory equipment</i>	<i>32</i>	<i>Unit</i>		
<i>4</i>	<i>Plastic Chairs</i>	<i>750</i>	<i>Unit</i>		
<i>5</i>	<i>Writing Desk</i>	<i>115</i>	<i>Unit</i>		
<i>6</i>	<i>Cabinet</i>	<i>90</i>	<i>Unit</i>		
<i>7</i>	<i>Chair</i>	<i>125</i>	<i>Unit</i>		
<i>8</i>	<i>Wardrobe</i>	<i>41</i>	<i>Unit</i>		
<i>9</i>	<i>Bed With Backrest</i>	<i>48</i>	<i>Unit</i>		
<i>10</i>	<i>Rehabilitation Bed (electric bed)</i>	<i>13</i>	<i>Unit</i>		
<i>11</i>	<i>Baby bed</i>	<i>5</i>	<i>Unit</i>		
<i>12</i>	<i>Baby crib</i>	<i>5</i>	<i>Unit</i>		
<i>13</i>	<i>Table for wrapping for infants</i>	<i>2</i>	<i>Unit</i>		
<i>14</i>	<i>Hanger</i>	<i>160</i>	<i>Unit</i>		
<i>15</i>	<i>Soled linen trolley</i>	<i>14</i>	<i>Unit</i>		
<i>16</i>	<i>Bowl's stand</i>	<i>12</i>	<i>Unit</i>		
<i>17</i>	<i>Medical examination couch</i>	<i>40</i>	<i>Unit</i>		

18	<i>Cabinet for medicine</i>	110	Unit		
19	<i>Bedside Locker</i>	50	Unit		
20	<i>Color LED TV - 42"with holder</i>	13	Unit		
21	<i>Color LED TV - 32"with holder</i>	68	Unit		
22	<i>Refrigerator</i>	70	Unit		
23	<i>Cabinet with Shelves</i>	110	Unit		
24	<i>Table</i>	100	Unit		
25	<i>Nurse station</i>	8	Unit		
26	<i>Table for medical instruments (B)</i>	14	Unit		
27	<i>Table for medical instruments (A)</i>	70	Unit		
28	<i>Waste bin</i>	300	Unit		
29	<i>Folding screen</i>	25	Unit		
30	<i>Mounting step</i>	15	Unit		
31	<i>Infusion fluid holder</i>	50	Unit		
32	<i>Revolving chair with gas pump</i>	15	Unit		
33	<i>Changing room locker, single door</i>	180	Unit		
34	<i>Refrigerator</i>	30	Unit		
35	<i>Kitchen sink with electric hod</i>	5	Unit		
36	<i>Kitchen furniture (stainless steel)</i>	1	Unit		

37	<i>Patient trolley</i>	6	Unit		
38	<i>Movable table</i>	87	Unit		
39	<i>Special Chair</i>	22	Unit		
40	<i>Bedside cabinet</i>	87	Unit		
41	<i>Reception desk for emergency</i>	1	Unit		

4. Drawings

These Bidding Documents includes *no* drawings.

5. Inspections and Tests

"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia. (Lot-1, Lot-2, Lot -3 and Lot-4)

For Lot- 1

A. The Supplier should conduct the following tests and verification supplied equipment:

- Test ensuring that there are no physical damages to supplied, goods (Medical Diagnostic and Imaging equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms).*

B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.

- Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Medical Diagnostic and Imaging equipment supplied.*
- Testing the operation of main function of the Medical Diagnostic and Imaging equipment supplied, after installation.*

C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC diagnostics participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.

For Lot- 2

A. The Supplier should conduct the following tests and verification supplied equipment:

- Test ensuring that there are no physical damages to supplied, goods (Laboratory equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP term).*

B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.

- Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Laboratory equipment supplied.*
- Testing the operation of main function of the Laboratory equipment supplied, after installation.*

C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC laboratories participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.

For Lot -3

A. *The Supplier should conduct the following tests and verification supplied equipment:*

- *Test ensuring that there are no physical damages to supplied, goods (Surgery and Hospital equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms).*

B. *The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.*

- *Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Surgery and Hospital equipment supplied.*
- *Testing the operation of main function of the Surgery and Hospital equipment supplied, after installation.*

C. *The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.*

For Lot- 4

A. *The Supplier should conduct the following tests and verification supplied equipment:*

- *Test ensuring that there are no physical damages to supplied, goods (Medical Furniture), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms).*

B. *The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.*

- *Verify the completeness of accessories and other spare parts (if applicable) of the Medical Furniture supplied.*
- *Testing the operation of main function of the Medical Furniture supplied, after installation.*

C. *The Supplier shall provide the Purchaser with a report of the results of above mentioned tests.*

After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.

Beneficiary: is director or authorized representative from "Center of Hematology named after R.H. Yeolyan" CJSC.

PART 3 - Contract

Section VIII. General Conditions of Contract

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Section VIII. General Conditions of Contract

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

- (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (e) “Day” means calendar day.
- (f) “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) “GCC” means the General Conditions of Contract.
- (h) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (i) “Purchaser’s Country” is the country specified in the Special Conditions of Contract (SCC).
- (j) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the SCC.
- (k) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
- (l) “SCC” means the Special Conditions of Contract.

- (m) “Subcontractor” means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- (n) “Supplier” means the person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
- (o) “The Project Site,” where applicable, means the place named in the **SCC**.

2. Contract Documents

- 2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Corrupt and Fraudulent Practices

- 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Appendix to the GCC.
- 3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

4. Interpretation

- 4.1 If the context so requires it, singular means plural and vice versa.
- 4.2 Incoterms
 - (a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.
 - (b) The terms EXW, CIP, FCA, CFR and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.
- 4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

- (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

- 5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

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| 6. Joint Venture, Consortium or Association | 6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser. |
| 7. Eligibility | <p>7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.</p> <p>7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.</p> |
| 8. Notices | <p>8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term “in writing” means communicated in written form with proof of receipt.</p> <p>8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.</p> |
| 9. Governing Law | <p>9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser’s Country, unless otherwise specified in the SCC.</p> <p>9.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Purchaser’s country when</p> <p style="padding-left: 40px;">(a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country; or</p> <p style="padding-left: 40px;">(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.</p> |
| 10 Settlement of | 10.1 The Purchaser and the Supplier shall make every effort to |

Disputes

resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC**.

10.3 Notwithstanding any reference to arbitration herein,

- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- (b) the Purchaser shall pay the Supplier any monies due the Supplier.

11. Inspections and Audit by the Bank

11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs.

11.2 The Supplier shall permit, and shall cause its Subcontractors to permit, the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to Clause 3 [Fraud and Corruption], which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under this Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures)

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| 12. Scope of Supply | 12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements. |
| 13. Delivery and Documents | 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC . |
| 14. Supplier's Responsibilities | 14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13. |
| 15 Contract Price | 15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the SCC . |
| 16. Terms of Payment | <p>16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the SCC.</p> <p>16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.</p> <p>16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.</p> <p>16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the bid price is expressed.</p> <p>16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.</p> |
| 17. Taxes and Duties | 17.1 For goods manufactured outside the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the |

Purchaser's Country.

17.2 For goods Manufactured within the Purchaser's country, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

**18. Performance
Security**

18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the SCC.

18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the Purchaser in the SCC, or in another format acceptable to the Purchaser.

18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the SCC.

19. Copyright

19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party

**20. Confidential
Information**

20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such

information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.

20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
- (b) now or hereafter enters the public domain through no fault of that party;
- (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
- (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards**22.1 Technical Specifications and Drawings**

- (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.
- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

- 23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

24. Insurance

- 24.1 Unless otherwise specified in the SCC, the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC.

25. Transportation and Incidental Services

- 25.1 Unless otherwise specified in the **SCC**, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
- 25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, **specified in SCC**:
- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
- 25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services

26. Inspections and Tests

- 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC**.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board

and lodging expenses.

- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.
- 26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

- 27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum

deduction of the percentage specified in those **SCC**. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

- 28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 28.3 Unless otherwise specified in the **SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC**, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

- 29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design,

trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

- 29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- 29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- 29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.
- 29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30 Limitation of Liability

- 30.1 Except in cases of criminal negligence or willful misconduct,
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

31. Change in Laws and Regulations

- 31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**33. Change Orders
and Contract
Amendments**

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**34. Extensions of
Time**

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's

notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

- 34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect

any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

**37. Export
Restriction**

- 37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.

APPENDIX TO GENERAL CONDITIONS

Bank's Policy- Corrupt and Fraudulent Practices

(text in this Appendix shall not be modified)

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

“Fraud and Corruption:

1.16 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.¹⁰ In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;¹¹
 - (ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;¹²
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;¹³
 - (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;¹⁴

¹⁰ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

¹¹ For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

¹² For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

¹³ For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.

¹⁴ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

- (v) "obstructive practice" is:
 - (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures,¹⁵ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹⁶;
- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to

¹⁵ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank's sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

¹⁶ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

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Section IX. Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(i)	The Purchaser's country is: <i>Republic of Armenia</i>
GCC 1.1(j)	The Purchaser is: <i>"Health projects implementation unit" SA</i>
GCC 1.1 (o)	The Final Destination is: <i><u>For all four(4)Lots</u></i> <i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.</i>
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms (CIP).
GCC 4.2 (b)	The version edition of Incoterms shall be <i>edition year 2010</i>
GCC 5.1	The language shall be: <i>English</i>
GCC 8.1	For <u>notices</u> , the Purchaser's address shall be: Attention: <i>Nelson Zuloyan – Acting Director of the HPIU SA</i> Street Address: <i>Komitas 49/4 street, 5th floor,</i> City: <i>Yerevan</i> ZIP Code: <i>0051</i> Country: <i>Republic of Armenia</i> Telephone: <i>+37410 297536; 297537; 297538</i> Facsimile number: <i>+37410 297539</i> Electronic mail address: <i>info@healthpiu.am</i> For <u>notices</u> , the Supplier's address shall be:
GCC 9.1	The governing law shall be the law of: <i>Republic of Armenia</i>
GCC 10.2	The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows: <i>(a) Contract with foreign Supplier:</i> GCC 10.2 (a)—Any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity

	<p>thereof, shall be settled by arbitration in accordance with the UNCITRAL Arbitration Rules as at present in force.</p> <p>The language to be used for arbitration shall be English.</p> <p>(b) Contracts with Supplier national of the Purchaser's country:</p> <p>In the case of a dispute between the Purchaser and a Supplier who is a national of the Purchaser's country, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Purchaser's country.</p>
<p>GCC 13.1</p>	<p>Details of Shipping and other Documents to be furnished by the Supplier are</p> <p>A) If goods will be imported:</p> <ul style="list-style-type: none"> • <i>copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</i> • <i>copies of the packing list identifying contents of each package;</i> • <i>insurance certificate;</i> • <i>Manufacturer's factory testing certificate for goods supplied;</i> • <i>certificate of origin or equivalent document (for products from EEU countries);</i> • <i>goods supplied under Lot 1, Lot 2 and Lot 3 shall be accompanied with User manuals in English language with Russian translation. Russian translation is not required for items: from N14 to N16 and from N22 to N25 under Lot 3. User manuals in English language required only for goods N9; N10 from N20 to N22 and N34 under Lot 4. Also Russian translation is not required for Lot 4.</i> <p><i>Manufacturer's or Supplier's warranty certificate shall be provided after installation of goods immediately.</i></p> <p><i>The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</i></p> <p>B) If goods are already imported or manufactured domestically:</p> <ul style="list-style-type: none"> • <i>copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</i> • <i>certificate of origin or equivalent document (for products from EEU countries);</i> • <i>goods supplied under Lot 1, Lot 2 and Lot 3 shall be accompanied with User manuals in English language with Russian translation. Russian translation is not required for items: from N14 to N16 and from N22 to N25 under Lot 3. User manuals in English language required only for goods N9; N10 from N20 to N22 and N34 under Lot 4. Also Russian translation is not required for Lot 4.</i> <p><i>Manufacturer's or Supplier's warranty certificate shall be provided after installation of goods immediately.</i></p>

GCC 15.1	The prices charged for the Goods supplied and the related Services performed “ <i>shall not</i> ” be adjustable.
GCC 16.1	<p>Payment for Goods supplied from abroad:</p> <p>Payment of foreign currency portion shall be made in (____) [<i>currency of the Contract Price</i>] in the following manner:</p> <ul style="list-style-type: none"> (i) Advance Payment: Ten (10) percent of the Contract Price shall be paid by bank transfer to Supplier’s account within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered and services are performed; and in the form provided in the bidding documents or another form acceptable to the Purchaser. (ii) On Shipment: Eighty (80) percent of the Contract Price for Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country upon submission of documents specified in GCC Clause 13.1. (iii) On Acceptance: Ten (10) percent of the Contract Price of Goods received and ninety (90) percent of the Contract Price of services performed shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the <i>delivery-acceptance act</i> and performance issued by the Purchaser. <p>Payment for Goods and Services supplied from within the Purchaser’s country:</p> <p>Payment for Goods and Services supplied from within the Purchaser’s country shall be made in _____ [<i>currency</i>], as follows:</p> <ul style="list-style-type: none"> (i) Advance Payment: Ten (10) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract against a simple receipt and a bank guarantee for the equivalent amount valid until the Goods are delivered and services are performed and in the form provided in the bidding documents or another form acceptable to the Purchaser. (iii) On Delivery: Eighty (80) percent of the Contract Price of Goods supplied shall be paid via bank transfer to supplier’s account on receipt of the Goods and upon submission of the documents specified in GCC Clause 13 (iv) On Acceptance: Ten (10) percent of the Contract Price of Goods received and ninety (90) percent of the Contract Price of services performed shall be paid within thirty (30) days after the date of the <i>delivery-acceptance act</i> for the respective delivery and performance issued by the Purchaser.

GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 45 days.</p> <p>The interest rate that shall be applied is 6 %</p>
GCC 18.1	<p>A Performance Security <i>shall be required</i></p> <p>The amount of the Performance Security shall be: 10 % of the Contract Price.</p>
GCC 18.3	<p>If required, the Performance Security shall be in the form of : <i>[a Bank Guarantee]</i></p> <p>If required, the Performance security shall be denominated in “ <i>the currencies of payment of the Contract, in accordance with their portions of the Contract Price</i>”</p>
GCC 18.4	<p><i>After all Goods will be delivered and installed the percentage of the Performance security will be reduces up to 3%</i></p> <p>Discharge of the remaining part of Performance Security shall take place <i>according to sub clause GCC 18.4</i></p>
GCC 23.2	<p>The packing, marking and documentation within and outside the packages shall be: <i>the purchaser’s name indicated in GCC 1.1 (j)</i></p>
GCC 24.1	<p>The insurance coverage shall be as specified in the Incoterms.</p> <p><i>The Insurance shall be in an amount equal to 110% of the CIP price of Goods from “warehouse” to “warehouse” on “All Risks” basis, including War Risk and Strikes.</i></p>
GCC 25.1	<p>Responsibility for transportation of the Goods shall be as specified in the Incoterms.</p>
GCC 25.2	<p>Incidental services to be provided are:</p> <p><i>Installation of all equipment</i> <i>Within 25 days after delivery to the final destination of goods under Lots1, 2, 3 and 4.</i></p> <p><i>Operation Training</i> <i>No. of Persons and period of time</i></p> <ul style="list-style-type: none"> • <i>"Center of Hematology named after R.H. Yeolyan" CJSC - 2 Radiologist, 2 technical specialist for radiology and 4 sonographers and 4 nurses to be trained for Lot 1, during 5 days.</i> • <i>"Center of Hematology named after R.H. Yeolyan" CJSC- 25 persons in area for laboratories to be trained for Lot 2, during 5 days.</i> • <i>"Center of Hematology named after R.H. Yeolyan" CJSC- 20persons in hospital area to be trained for Lot 3during 5 days.</i> <p><i><u>within 15 days after installation of goods for Lots 1,2,3</u></i></p>

GCC 26.1

The inspections and tests shall be: ***"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia.,***

For all four(4) Lots

For Lot- 1

A. The Supplier should conduct the following tests and verification supplied equipment:

- Test ensuring that there are no physical damages to supplied, goods (Medical Diagnostic and Imaging equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms).

B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.

- Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Medical Diagnostic and Imaging equipment supplied.
- Testing the operation of main function of the Medical Diagnostic and Imaging equipment supplied, after installation.

C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC diagnostics participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.

For Lot- 2

A. The Supplier should conduct the following tests and verification supplied equipment:

- Test ensuring that there are no physical damages to supplied, goods (Laboratory equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP term).

B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.

- Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Laboratory equipment supplied.
- Testing the operation of main function of the Laboratory equipment supplied, after installation.

C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC laboratories participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.

	<p>For Lot -3</p> <p>A. The Supplier should conduct the following tests and verification supplied equipment:</p> <ul style="list-style-type: none"> • Test ensuring that there are no physical damages to supplied, goods (Surgery and Hospital equipment), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms). <p>B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.</p> <ul style="list-style-type: none"> • Verify the completeness of consumables and accessories and other spare parts (if applicable) of the Surgery and Hospital equipment supplied. • Testing the operation of main function of the Surgery and Hospital equipment supplied, after installation. <p>C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests and with a report of completion of training. The names of the personal of "Center of Hematology named after R.H. Yeolyan" CJSC participated the training process shall be detailed in the report. After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.</p> <p>For Lot- 4</p> <p>A. The Supplier should conduct the following tests and verification supplied equipment:</p> <ul style="list-style-type: none"> • Test ensuring that there are no physical damages to supplied, goods (Medical Furniture), before delivery to the final destination. The Manufacturer's factory testing certificate for goods supplied will be provided with delivery documents, according to SCC (in case of supply based on CIP terms). <p>B. The following tests and inspections shall be carried out by the Supplier (or its designated representative) to the Final destination and conducted in the presence of the Purchaser, Beneficiary or their designated representative.</p> <ul style="list-style-type: none"> • Verify the completeness of accessories and other spare parts (if applicable) of the Medical Furniture supplied. • Testing the operation of main function of the Medical Furniture supplied, after installation. <p>C. The Supplier shall provide the Purchaser with a report of the results of above mentioned tests.</p> <p>After that an appropriate delivery-acceptance act shall be issued and signed by the Purchaser, Beneficiary and Supplier.</p> <p>Beneficiary: is director or authorized representative from "Center of Hematology named after R.H. Yeolyan" CJSC.</p>
GCC 26.2	<p>The Inspections and tests shall be conducted at:</p> <p>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia, for all four(4) Lots.</p>
GCC 27.1	The liquidated damage shall be: 0.5 % per week
GCC 27.1	The maximum amount of liquidated damages shall be: 10 % of the Contract Price.
GCC 28.3	<p>The period of validity of the Warranty shall be:</p> <p>Two (2) year from the date of installation for Lot 1- Diagnosing and Imaging equipment (for item 7-one (1) year), Lot 2- Laboratory equipment and Lot 3- Surgery and Hospital equipment (for items 7;14;15;22;23;24 and 25 one (1)</p>

	<p>year).</p> <p><i>One (1) year Warranty from the date of installation for Lot 4-Medical Furniture.</i></p> <p>For purposes of the Warranty, the places of final destinations shall be:</p> <p><i>"Center of Hematology named after R.H. Yeolyan" CJSC, 7 H. Nersisyan str., Yerevan, Republic of Armenia, for all four (4) Lots.</i></p>
GCC 28.5	<p>The period for repair or replacement shall be:</p> <p>Required for Lot 1</p> <ul style="list-style-type: none"> • <i>the quick respond period is 3 days</i> • <i>For small and easy (small issues not impacting on the item functionality in general) defects repair or replacement period is 10 days.</i> • <i>For serious (issues impacting on the item functionality in general) defects repair or replacement period is 60 days, for CT and X-Ray equipment is within 5 months.</i> <p>Required for Lot 2</p> <ul style="list-style-type: none"> • <i>the quick respond period is 3 days</i> • <i>For small and easy (small issues not impacting on the item functionality in general) defects repair or replacement period is 10 days.</i> • <i>For serious (issues impacting on the item functionality in general) defects repair or replacement period is within 45 days.</i> <p>Required for Lot 3</p> <ul style="list-style-type: none"> • <i>the quick respond period is 3 days</i> • <i>For small and easy (small issues not impacting on the item functionality in general) defects repair or replacement period is 10 days.</i> • <i>For serious (issues impacting on the item functionality in general) defects repair or replacement period is within 60 days.</i> <p>Required for Lot 4</p> <ul style="list-style-type: none"> • <i>the quick respond period is 3 days</i> • <i>For small and easy (small issues not impacting on the item functionality in general) defects repair or replacement period is 10 days.</i> • <i>For serious (issues impacting on the item functionality in general) defects repair or replacement period is within 30 days.</i>

Section X. Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.

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Letter of Acceptance

[Letter head paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: ***Notification of Award Contract No.***

This is to notify you that your Bid dated ***[insert date]*** for execution of the . . .
. ***[insert name of the contract and identification number, as given in the SCC]*** . .
. for the Accepted Contract Amount of ***[insert amount in numbers
and words and name of currency]***, as corrected and modified in accordance with the
Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 28 days in accordance
with the Conditions of Contract, using for that purpose the of the Performance Security
Form included in Section X, Contract Forms, of the Bidding Document.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made

the [*insert: **number***] day of [*insert: **month***], [*insert: **year***].

BETWEEN

- (1) [*insert complete name of Purchaser*], a [*insert description of type of legal entity, for example, an agency of the Ministry of of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }*] and having its principal place of business at [*insert address of Purchaser*] (hereinafter called “the Purchaser”), of the one part, and
- (2) [*insert name of Supplier*], a corporation incorporated under the laws of [*insert: country of Supplier*] and having its principal place of business at [*insert: address of Supplier*] (hereinafter called “the Supplier”), of the other part :

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [*insert brief description of Goods and Services*] and has accepted a Bid by the Supplier for the supply of those Goods and Services

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) the Letter of Bid
 - (c) the Addenda Nos. _____ (if any)
 - (d) Special Conditions of Contract
 - (e) General Conditions of Contract
 - (f) the Specification (including Schedule of Requirements and Technical Specifications)

- (g) the completed Schedules (including Price Schedules)
 - (h) any other document listed in GCC as forming part of the Contract
-
- 3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
 - 4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

Performance Security

(Bank Guarantee)

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Purchaser]*

Date: *_ [Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *_ [insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of *_ [insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (*[insert amount in words]*),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

¹ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

² Insert the date twenty-eight days after the expected completion date as described in GC Clause 18.4. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Purchaser might consider adding the following text to the form, at the end of the penultimate

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”

Advance Payment Security

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and Address of Purchaser]*

Date: *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* () *[insert amount in words]*¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has used the advance payment for purposes other than toward delivery of Goods;
or
- (b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to

¹ *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Purchaser.*

above has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*.

This guarantee shall expire, at the latest, upon our receipt of a copy of the certificate indicating that goods have been delivered and the services have been performed accordingly, or on the *[insert day]* day of *[insert month]*, *[insert year]*, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date. This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No.758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Invitation for Bids

REPUBLIC OF ARMENIA

DISEASE PREVENTION AND CONTROL PROJECT

IDA Credit No. 5222

Contract Title: *Medical and Diagnostic equipment and Medical Furniture for "Center of Hematology named after R.H. Yeolyan" CJSC, comprising of 4 Lots.*

Reference No. *CR4/ICB/B-G/012-15*

1. The Republic of Armenia has received financing from the World Bank toward the cost of the *Disease Prevention and Control, Credit No: 5222AM* and intends to apply part of the proceeds toward payments under the contract for *Medical and Diagnostic equipment and Medical Furniture for "Center of Hematology named after R.H. Yeolyan" CJSC, comprising of 4 Lots.*

2. The HPIU SA now invites sealed bids from eligible bidders for supply and installation *Medical and Diagnostic equipment and Medical Furniture for "Center of Hematology named after R.H. Yeolyan" CJSC*: Diagnostic and Imaging equipment Lot-1 (No: CR4/ICB/B-G/012/1-15), Laboratory equipment Lot-2 (No: CR4/ICB/B-G/012/2-15), Surgery and Hospital equipment Lot-3 (No: CR4/ICB/B-G/012/3-15) and Medical Furniture Lot-4 (No: CR4/ICB/B-G/012/4-15).

3. Bidding will be conducted through the International Competitive Bidding procedures as specified in the World Bank's *Guidelines: Procurement of Goods, Works and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers* [January 2011, revised July 2014] ("Procurement Guidelines"), and is open to all eligible bidders as defined in the Procurement Guidelines. In addition, please refer to paragraphs 1.6 and 1.7 setting forth the World Bank's policy on conflict of interest.

4. Interested eligible bidders may obtain further information from Health Project Implementation Unit State Agency, Komitas 49/4 street 5th floor, procurement department, Yerevan 0051, RA and inspect the Bidding Documents at the same address from 10:00- 13:00 and 14:00 -17:00 at local time.

5. A complete set of bidding documents in English may be purchased by interested eligible bidders upon the submission of a written application to the address below and upon payment of a nonrefundable fee of **AMD 40,000 or equal in USD**. The method of payment will be bank transfer. In case of transfer, bank account details are presented below:

"The bidding documents will be available also on the www.procurement.am (<http://gnumner.am/am/category/129/1.html>) website free of charge. However the HPIU SA will not be responsible for incorrect or incomplete downloading documents by the potential bidders, or missed amendments to those (if any)."

Central Treasury of Ministry of Finance, RA- 900000902123 for AMD transfers.

Central Treasury of Ministry of Finance, RA- 900000902156 for USD transfers.

6. Bids must be delivered to the address below on or before *24, November 2015 at 10:00 local time*. Electronic bidding will “**shall not**” be permitted. Late bids will be rejected. Bids will be publicly opened in the presence of the bidders’ designated representatives and anyone who choose to attend at the address below on *24, November 2015 at 10:05*.

7. Bid must be accompanied by a “**Bid Security (Bank Guarantee or Bid bond)**”, with the following amount and currency:

Lot 1: USD 20,000

Lot 2: USD 13,000

Lot 3: USD 12,000

Lot 4: USD 10,000

Note: If a bidder submits for two or more Lots, they should be accompanied by separate Bid Securities, included in the Bid.

8. The address referred to above is:

***Health PIU office is located on the Komitas 49/4 ave., Yerevan 0051, Republic of Armenia
5th floor, procurement department
Tel. (374-10) 297536; 297537; 297538
E-mail: info@healthpiu.am; procurement@healthpiu.am
Web site: www.healthpiu.am***