REPUBLIC OF LEBANON
THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

Supply & Installation of Medical Equipment for KHALWAT & JBAA Health Centers

FINANCED BY THE ISLAMIC DEVELOPMENT BANK (IDB)

TECHNICAL SPECIFICATIONS

PREAMBLE

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IsDB
البنك الإسلامي للتنمية
Islamic Development Bank

1. Explanatory Notes

- The Technical Specifications (Volume II) shall be interpreted as guidelines for the type and quality of the equipment required. The specifications texts are therefore covering a wide range of equipment types and ancillaries. They do not relate to any specific manufacturer. In some cases, specific figures have been given. Such information should be considered as guidelines. The equipment offered however, shall be compliant with international standards and quality.
- If brand names, products, or catalog numbers are mentioned in Technical Specifications (Volume II) or in any other tender documents, it is considered as an example and the bidder could submit any brands with equivalent specifications.
- The Bidder shall provide one proposal only for each item that is listed in the specifications, as a complete, fully functional unit, with all ancillaries and accessories necessary for its normal and safe use "No variant is allowed". All ancillaries that are needed beyond normal operation, and all additional accessories to be listed and priced, with the item offered, as optional.
- When in the specifications, "a complete set of – "is mentioned, then the bidder shall list, specify and price all the items included in the set offered.
- It is important that the Bidder specifies and prices the application software and hardware that will be provided with the total system for its normal operation, and any other software and hardware that will be offered as options.
- All dimensions and ratings in the specifications for medical equipment are indicative for required sizes, weights, and functions.
- The bidder shall provide actual dimensions and ratings with this offer.
- In view of the rapid technological development and in case a new model for a required medical equipment is commercialized after the date of the bid opening, the Bidder shall provide the latest model of equipment made available in the market to replace what has been represented in his offer at no extra cost.
- Before the tenderer prepares the Bid, he should inspect the existing facility and the architectural and engineering drawings for the planned facility and completely familiarize itself with all conditions affecting the equipment and the pre-installation requirement. Failure to do so shall not relieve the tenderer of any of the cost requirements to complete the work and prepare the site.
- Where appropriate, such as for certain types of diagnostic imaging systems, the tenderer shall provide shielding design.
- The successful Bidder shall provide before installation, site preparation and layout drawings for all major equipment including layout of the connection with the nearest electromechanical points needed. A complete and detailed description of contractor obligations for facility preparation that will be required for each system.
- He shall provide a description of installation planning, design, and construction services provided. This shall include, but not limited to, shielding, electrical, mechanical, environmental conditions, structural (ceiling, wall and floor loading) and access requirements. Completion of this work is an essential part of the medical equipment acceptance.
- All items must be compatible to be connected to the existing sockets.

- Coordination of works:
  - The supplier shall be responsible for coordinating the works with the Contractors of Civil, Architectural and Electromechanical works for the good performance and finishing of the project.

2. Training

The Bidder shall specify, in detail, the training component in his offer, which shall cover the detailed schedule of the necessary training sessions and educational workshops for the relevant staff on the clinical operation safe and competent handling of major equipment and systems, and the associated costs. A detailed description of the in-service training to be provided for the clinical personal and technical training for biomedical engineering personnel. This should be included a description of program length and format and content.

3. Standards

All medical electric and electronic equipment and other shall comply with all relevant standards i.e. IEC601-1 (General Requirement for Safety) and IEC-601-1-2(EMC/ Electromagnetic Capability).

Any medical equipment with country of origin from European Committee, USA, Japan, Canada or Australia should have either CE or FDA Certificate, and any medical equipment with country of origin from outside European Committee, USA, Japan, Canada or Australia must have both CE and FDA Certificates.

All relevant documentation and valid certificates of conformity to the standards shall be presented in the Bid.
If these systems, as quoted, do not comply with the standards upon their issuances, it is the tenderer's responsibility to assure compliance, at no cost to the client.
The CDR reverses the right to consider any item without such certified of conformity as non-responsive.

4. Electricity

- All Electrical supplies are at 220 single phase/ 380 three phase, 50Hz.
- All computerized and electronic equipment shall be provided with surge protection.
- Electrical Safety:
  a. The unit should be provided with a line (power) cord of acceptable durability, quality, length, and capacity and should be secured with adequate strain reliefs.
  b. The unit should include, power plugs that are sufficient for the maximum voltage and current of the unit.
  c. The chassis should be grounded and grounding resistance should be as per applicable code.
  d. If the unit is double, it should be so labeled.
  e. Electrical leakage current from the chassis of the unit should not exceed the maximum permissible current as per IEC 601-1

- Line Voltage Variation

  a. All computerized and electronic equipment shall be provided with surge unit, the unit should operate satisfactorily at line voltages from ±10% of the nominal line voltage of 220 Volts single phase or 380 Volts three phases.

  b. The unit should not be damaged by voltages from ±20% of the nominal line voltage specified above.