



AGENZIA ITALIANA  
PER LA COOPERAZIONE  
ALLO SVILUPPO

Sede di Khartoum



## SUPPLY CONTRACT

Italian Agency for Development Cooperation (AICS)  
Khartoum Office, Street 33, Amarat, Khartoum - Sudan  
on behalf of and for the account of the government of Italy  
(The contracting authority),  
of the one part,

and

Rasd Pharma Multi Activities Co. Ltd  
Official registration number: 23942  
761, Block 22, Altaif  
Khartoum - Sudan  
300000456012<sup>1</sup>, ('the contractor')

of the other part,

have agreed as follows:

### CONTRACT TITLE

Supply of Biomedical Equipment for three Health Centres in Sudan

LOT1: CIG\_93192475E8

LOT2: CIG: 9319254BAD

### Article 1 Subject

- 1.1 The subject of the contract shall be:  
the supply, delivery, unloading, siting and installation, commissioning,  
maintenance, after-sales service of the following supplies:

LOT 1: CIG\_93192475E8:

LOT 1	Medical Furniture, Medical Device, Medical Equipment, Surgical inox set	
	Medical Furniture	
LOT 1	04-BWG Bed, ward, General Medicine, w/mattress	3
LOT 1	04-CAB Cabinet, Bedside	16
LOT 1	04-CHB Chair, blood/sample collection	3
LOT 1	04-COG Couch, Gynaecological 3	3
LOT 1	04-FOR Folding screen room dividers 20	20
LOT 1	04-IVP IV Pole, 2 hooks 9	9
LOT 1	04-TRIO1 Trolley, Inox, Operating Room, 50 x 70	



LOT 1	04-TRIO2 Trolley, Inox, Operating Room, 90 x 60	3
LOT 1	04-XRW X-RAY, Film viewer	9
	<b>Medical Device</b>	
LOT 1	MDD32 Hammer	3
LOT 1	MDD09 Ophthalmoscope/Otoscope	3
LOT 1	MDD36 Oxygen, Cilinder, w regulator	4
LOT 1	MDD38 Retinoscope	1
LOT 1	MDD14 Sphygmomanometer, Adul, Pediatric	9
LOT 1	MDD12 Stethoscope, (dualHead)	9
LOT 1	MDD23 Stethoscope, fetal	5
LOT 1	MDD13 Thermometers, Electronic, Infrared, Skin	15
LOT 1	MDD28 Torch for eye examination	15
LOT 1	MDD35 Trial Lens Sets, Ophtalmic	1
LOT 1	MDD07 Weightening System, infant	1
LOT 1	MDD08 Weighting System, Adult, with heght mes	8
	<b>Medical Equipment</b>	
LOT 1	02-AER Aerosol Generators	3
LOT 1	02-UDE Dental Unit	1
LOT 1	02-LISB Lights, Surgical/examination, mobile, battery	3
LOT 1	02-SSUG Scanning System, Ultrasonic, General Purpose	1
	<i>Surgical inox set</i>	
LOT 1	10-077 Drum, sterilizing Inox Inox, Large	3
LOT 1	10-077 Drum, sterilizing Inox Inox, Medium	3
LOT 1	10-077 Drum, sterilizing Inox, Small	3
LOT 1	06-070 Forceps, Desmarres Chalazion	3
LOT 1	09-054 Kidney Dish, Inox, Large, wout/ Lid	6
LOT 1	09-054 Kidney Dish, Inox, Medium, wout/ Lid	6
LOT 1	09-054 Kidney Dish, Inox, Small, wout/ Lid	6
LOT 1	09-049 Retractor, Vaginal, Sim	3
LOT 1	06-053 Set, Delivery	1
LOT 1	06-150 Set, Dental, Basic	3
LOT 1	06-055 Set, Dressing	3
LOT 1	06-026 Set, Gynecological examination	3
LOT 1	06-036 Set, Small Fragment/foreign Bodies	3
LOT 1	06-059 Tray, Instrument, Inox	6

**LOT 2 CIG: 9319254BAD**

<b>LOT 2</b>	<b>LABORATORY EQUIPMENT</b>	
LOT 2	03-AMA Amalgamator, dental	2
LOT 2	03-ANCL Analyzer, Clinical Chemistry	1
LOT 2	03-ANELC Analyzer, Electrolytes	2
LOT 2	03-ANGL Analyzer, Glucose, Whole Blood	2

LOT 2	03-ANH Analyzer, Hormonal test	2
LOT 2	03-CET Centrifuge, Tabletop, High Speed	1
LOT 2	03-MICL Microscope, light	1
LOT 2	03-PIPS Pipette, Automatic, Set	3
LOT 2	03-REF4 Refrigerator, drugs/reagents, 170 L	1
LOT 2	03-REF5 Refrigerator, drugs/reagents/vaccines, 700 L	2
LOT 2	03-SHKV Shaker, Vortex	2
LOT 2	03-FRT Thermometer, Data Logger, w/ display	3
LOT 2	03-ThDL 6 100,00 € 600,00 €	6
LOT 2	03-WSAB Weighting System, Analytical Balance	3
LOT 2	031-Water Puryfing, Reverse Osmosis	3

The place of acceptance of the supplies shall be the Health Centres of Shambat, Al Zihur and Tiraat Al Bija in Khartoum (SUDAN), the time limits for delivery shall be **120 days** and the Incoterm applicable shall be DDP<sup>2</sup>.

The implementation period of tasks shall run from the signature of the contract by both parties.

- 1.2 The contractor shall comply strictly with the terms of the special conditions and the technical annex.
- 1.3 The supplies which form the subject of the contract must be accompanied by the spare parts described by the contractor in its tender and by the accessories and other items necessary for using the goods over a period of 3 years, as per the instructions to tenderers.

## Article 2 Origin

The rules of origin of the goods are defined in Article 10 of the special conditions. A certificate of origin for the goods must be provided by the contractor at the latest when it requests provisional acceptance of the goods. Failure to comply with this condition may result in the termination of the contract and/or suspension of payment.

## Article 3 Price

- 3.1 The price of the supplies shall be that shown on the financial offer (specimen in Annex IV).  
The total contract price is **EUR 80,621.38** (LOT 1: EUR 30.569,88 - LOT 2: EUR 50.051,50)
- 3.2 Payments shall be made in accordance with the general and/or special conditions (Articles 26 to 28).

## Article 4 Order of precedence of contract documents

The contract is made up of the following documents, in order of precedence:

- the contract agreement.
- the special conditions
- the general conditions (Annex I).
- the technical specifications (Annex II) including clarifications before the deadline for submission of tenders.
- the technical offer (Annex III) including clarifications from the tenderer provided during tender evaluation.
- the budget breakdown (Annex IV).

<sup>2</sup> DDP (Delivery Duties Paid- Incoterms 2020 International Chamber of Commerce - <http://www.iccwbo.org/incoterms/>)

- Legal Entity (Annex V);
- Financial Identification (Annex VI).

The various documents making up the contract shall be deemed to be mutually explanatory; in cases of ambiguity or divergence, they shall prevail in the order in which they appear above.

Done in English in three originals, two originals being for the Contracting Authority and one original being for the contractor.

**For the contractor**

Name: *Toum Abdelstlim*  
 Title: *Project Coordinator*  
 Signature: *[Signature]*  
 Date: *23/1/22*



**For the contracting authority**

Name: Michele Morana  
 Title: Director of AICS Khartoum  
 Signature: *[Signature]*  
 Date:



## SPECIAL CONDITIONS

### CONTENTS

These conditions amplify and supplement, if necessary, the general conditions governing the contract. Unless the special conditions provide otherwise, those general conditions remain fully applicable. The numbering of the articles of the special conditions is not consecutive but follows the numbering of the articles of the general conditions. In exceptional cases, and with the authorisation of the appropriate Commission departments, other clauses may be added to cover specific situations.

#### **Article 2 Language of the contract**

- 2.1 The language used shall be English.

#### **Article 4 Communications**

- 4.1 Any Communications about the contract by the contractor to the Contracting Authority will be in writing and addressed to the attention of  
Mr. Wael Haddoush (Procurement Office)  
Italian Agency for Development Cooperation (AICS)  
Khartoum Office  
Street 33, Amarat  
Khartoum - Sudan  
**E-mail:** [procurement.sudan@aics.gov.it](mailto:procurement.sudan@aics.gov.it) att:  
indicating the contract reference number (CIG number).

#### **Article 6 Subcontracting**

- 6.3 When selecting sub-contractors, the contractor must give preference to natural persons or companies from SUDAN States capable of implementing the tasks required on similar terms.

#### **Article 7 Supply of documents**

- 7.1 The Contractor takes full responsibility of the implementation of tasks in order to successfully achieve the scope of the contract. So, he could decide to perform a sites survey before the effectiveness of the contract. The Contractor will submit a final plan of activities agreed with the Contracting Authority, stamped and signed by the legal representative. The final activity plan will indicate the human resources and all the other means intended to use. This plan must take into account the operational needs of the Health Facilities where equipment and services are delivered and minimize any inconvenience arising from the execution of the contract. The activity plan should also put in evidence any civil works to be performed by the Health Facilities before the delivery of the equipment. Any needed civil works that are not mentioned in the activity plan and agreed with the Contracting Authority will be at charge of the Contractor, without any reimbursement.
- 7.2 The Contracting Authority shall approve the activity plan after its submission or may propose modifications. If the Contracting Authority will not respond, the activity plan will be considered approved by silent consent. In the event of request of modification, the contractor could propose modifications to the activity plan. If modifications will not be submitted for approval, the Contractor may incur in the sanctions as provided for in the following Article 21 - Delays in implementation of the tasks and also in the contract General Conditions.

#### **Article 8 Assistance with local regulations**

- 8.1 The Visa, for a period of 90 days can be obtained at immigration offices at borders of the country under payment of the fees settled by the Sudan Government.

- 8.2 The Contracting Authority will take all the necessary steps to provide the Contractor with all the necessary documents for custom clearance.

#### **Article 9 General obligations**

- 9.1 The contractor shall take the necessary measures to ensure the visibility of the Italian Cooperation Financing. These measures must comply with the requirements settled down in the article 29.5

#### **Article 10 Origin**

- 10.1 All supplies under this contract can originate from any country. The product must have been assessed to meet all high safety, health, and environmental protection requirements for CE marking and the letter 'CE' must appear on the products traded. CE marking is mandatory. The CE marking must be visible, legible and indelible" ([https://ec.europa.eu/growth/single-market/ce-marking\\_en](https://ec.europa.eu/growth/single-market/ce-marking_en)).

#### **Article 11 Performance guarantee**

- 11.1 The amount of the performance guarantee shall be 10 % of the total contract price, including any amounts stipulated in addenda to the contract.
- 11.7 The performance guarantee shall be released within 60 days of the issuing of the signed final acceptance certificate for its total amount except for amounts, which are the subject of amicable settlement, arbitration or litigation.

#### **Article 12 Liabilities and insurance**

- 12.1 All risks insurance: Subject: "warehouse to warehouse"; Amount: 110% of DDP (Delivered Duty Paid- Incoterms 2020) value in Euro must be included in the DDP prices. Insured parties: Insurance should be made in the name of the Contracting Authority. Coverage period: From the date of commencement of activities to date of provisional acceptance.

#### **Article 13 Programme of implementation of tasks**

- 13.2 Within 20 days from the notification signature of the contract the contractor will send to the Contracting Authority a timetable of activities to come, with indication of duration, date, means and units of Human resources appointed to undertake the task. The Project Manager will approve by AICS the Programme of Implementation of tasks.

#### **Article 14 Contractor's drawings**

- 14.1 The Contractor will provide the final user with a complete set of technical drawings for installation, including the electrical drawings of every component with service manual in English language.

#### **Article 15 Sufficiency of tender prices**

- 15.1 No revision of tender prices is allowed and the Contractor is deemed to have evaluated with diligence every cost component arising from the implementation of contract tasks.

#### **Article 16 Tax and customs arrangements**

- 16.1 Delivery conditions are DDP incoterms 2020.

#### **Article 17 Patents and licences**

- 17.1 All Licence for software utilization and updates have to be in the name of the final User.

#### **Article 18 Commencement order**

18.1 No commencement order is requested.

#### **Article 19 Period of implementation of the tasks**

19.1 The period of implementation of task is 120 days from the contract signature by both parties.

#### **Article 21 Delays of implementation of the tasks**

21.4 If the authorized local service in charge of the after-sale and maintenance service does not provide the service according to the deadline established in the Technical Specifications, it will be subdue to penalties. This penalty for such delay is set to 50 Euro per day and up to a maximum of 1 % of the value of the contract. The amount corresponding of the total delays will be deducted from the Performance Guarantee or any other payment due to the contractor.

#### **Article 24 Qualities of Supplies**

- 24.4 The supplies shall have valid CE mark and shall be compliant with IEC 60601 last revision standard, IEC 61010-1 EU Directive 93/42/CEE MDD.
- 24.5 The Tenderer shall warrant that all supplies have no defect arising from design, materials or workmanship.
- 24.6 The Contractor shall warrant that the supplies are new, unused, of the most recent models and incorporate all recent improvements in design and materials. The Contractor shall further warrant that none of the supplies have any defect arising from design, materials or workmanship.

#### **Article 25 Inspection and testing**

- 25.2 The place to inspect and test the goods will be the place of final destination at the presence of the final user, the donor and the contractor representatives.
- 25.4 The Contractor shall test, calibrate and commission the goods, in presence of the Contracting Authority, as appropriate and in such way that, upon installation completion, they are fully operational and ready for use.
- 25.9 the Contractor shall cover all official testing and commissioning procedure costs including costs for instrumentation and materials.
- 25.10 Only specialized and qualified personnel by the contractor will install and test the supplies.
- 25.11 The contractor will submit to the Contracting Authority and the final user the complete set of reports of installation.

#### **Article 26 General principles for payments**

- 26.1 Payments shall be made in euros. Pre-financing is applicable to this contract. Payments shall be authorised by AICS Khartoum Office and made by AICS Central Office.
- 26.3 The final payment to the contractor of the amounts due shall be made within 90 days after receipt by the contracting authority of an invoice and of the application for the certificate of provisional acceptance.
- 26.5 In order to obtain payments, the contractor must forward to the authority referred to in paragraph 26.1 above:
- a) For the 40% pre-financing, the pre-financing guarantee.
- b) For the 60 % balance, the invoice(s) in triplicate together with the request for provisional acceptance of the supplies.
- 26.9 The contract does not include price revision.

#### **Article 29 Delivery**

- 29.1 The Contractor shall bear all risks relating to the goods until final acceptance at destination. The supplies shall be packaged so as to prevent their damage or deterioration in transit to their destination



- 29.3 The packaging shall remain the property of the contractor subject to environmental considerations.
- 29.4 The Supplier shall mail to the Contracting Authority, with a copy to the Insurance Company all the documents necessary to the delivery of the goods (the list of these documents will be defined at the moment of the contract signature).
- 29.5 Sticker with the Logo of the Donor (see Pattern - Dimension of minimum 20 cm - lower side or if rounded consider the radius) must be placed on each package of the items described in Article 1.1 of the Instruction to the Tenderers, with the words: Grant of AICS.

#### **Article 30 - Verification operations**

- 30.6 The Contractor will provide reconstruction of the whole floors, walls, finishing and any other damage or need for adaptation/repair of the rooms/building. This means, but it is not limited to, also the fixed furniture and finishing and the installations (including electrical power, data network, medical gases, air conditioning, water supply and drainage, etc.) possibly affected by the supply, as well as all other damages caused during the installation works.
- 30.7 Any damage to hospital structures, finishing or installations caused by the supplier/installer shall be repaired by the supplier/installer within 2 weeks using the same construction materials of the damaged areas and restoring all the previous services with the same supply quality.
- 30.8 The Contractors shall install, put in perfect operating conditions and ready to use the offered medical equipment, including the calibration of the systems to ensure the best digital images quality.
- 30.9 The Contractor shall perform on the contract with due care and diligence, providing for the delivery, assembly, testing and start-up of the equipment, including correction of any defects. The Contractor must have skilled manpower equipped with appropriate tools to properly execute the contract.

#### **Article 31 Provisional acceptance**

The certificate of provisional acceptance must be issued using the template in Annex C11\*.

- 31.2. By derogation, the contractor may apply, by notice to the project manager, for a certificate of provisional acceptance when supplies are ready for provisional acceptance. The project manager shall within 45 days of receipt of the contractor's application either:
  - issue the certificate of provisional acceptance to the contractor with a copy to the contracting authority stating, where appropriate, his reservations, and, inter alia, the date on which, in his opinion, the supplies were completed in accordance with the contract and ready for provisional acceptance; or
  - reject the application, giving his reasons and specifying the action which, in his opinion, is required of the contractor for the certificate to be issued.

The contracting authority's time limit for issuing the certificate of provisional acceptance to the contractor shall not be considered included in the time limit for payments indicated in Article 26.3.

#### **Article 32 Warranty obligations**

- 32.2. Unlimited *On demand* interventions shall be included for any defect covered by the warranty period according to the Technical Specification in Annex II. The interventions will include spare parts.
- 32.10 Spare parts, consumables and maintenance services Availability of spare parts, consumables and maintenance services must be guaranteed for not less than 10 years from the date of signature of the contract.

### **Article 33 After-sales service**

- 33.2 The Contractor shall provide, for all the articles supplied, the provision of reliable and regular aftersales and maintenance service at the place of installation, guaranteeing repair of the goods supplies during 12 months period after Provisional Acceptance.
- 33.3 This service has to be conducted according to the requirements indicated in Annex II and III. Such service will make available timely the necessary spare parts, reagents and consumables through a commercial relationship with the producer.
- 33.4 Except for what differently provided in the technical specifications (annex II to the contract), the after sales service is comprehensive of 2 mandatory interventions per year. After Sale service shall include regular preventive maintenance/safety and functionality checks / QA as per Manufacturer's recommendations

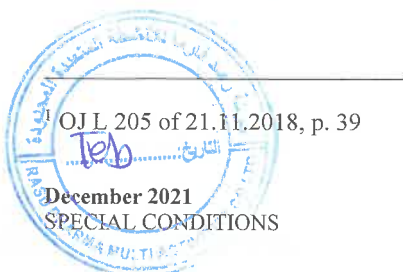
### **Article 40 Settlement of disputes**

- 40.1 Any disputes arising out of or relating to this contract, which cannot be settled, otherwise shall be referred to the exclusive jurisdiction of Italy in accordance with the national legislation of the state of the contracting authority.

### **Article 44 Data protection**

- 44.1 Processing of personal data related to the implementation of the contract by the contracting authority takes place in accordance with the national legislation of the state of the contracting authority and with the provisions of the respective financing agreement.
- 44.2 To the extent that the contract covers an action financed by the European Union, the Contracting Authority may share communications related to the implementation of the contract, with the European Commission. These exchanges shall be made to the Commission, solely for the purpose of allowing the latter to exercise its rights and obligations under the applicable legislative framework and under the financing agreement with the Partner country - contracting authority. The exchanges may involve transfers of personal data (such as names, contact details, signatures and CVs) of natural persons involved in the implementation of the contract (such as contractors, staff, experts, trainees, subcontractors, insurers, guarantors, auditors and legal counsel). In cases where the contractor is processing personal data in the context of the implementation of the contract, he/she shall accordingly inform the data subjects of the possible transmission of their data to the Commission. When personal data is transmitted to the Commission, the latter processes them in accordance with Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC1 and as detailed in the specific privacy statement published at ePRAG.

\* \* \*



# ANNEX I: GENERAL CONDITIONS

## FOR SUPPLY CONTRACTS

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## **PRELIMINARY PROVISIONS**

### **Article 1 - Definitions**

- 1.1. The headings and titles in these general conditions shall not be taken as part thereof or be taken into consideration in the interpretation of the contract.
- 1.2. Where the context so permits, words in the singular shall be deemed to include the plural and vice versa, and words in the masculine shall be deemed to include the feminine and vice versa.
- 1.3. Words designating persons or parties shall include firms and companies and any organisation having legal capacity.
- 1.4. The definitions of the terms used throughout these general conditions are laid down in the 'Glossary of terms', Annex A1a to the practical guide, which forms an integral part of the contract.

### **Article 2 - Language of the contract**

- 2.1. The language of the contract and of all communications between the contractor, contracting authority and project manager or their representatives shall be as stated in the special conditions.

### **Article 3 - Order of precedence of contract documents**

- 3.1. The order of precedence of the contract documents shall be stated in the contract.

### **Article 4 - Communications**

- 4.1. Any written communication relating to this contract between the contracting authority or the project manager, and the contractor shall state the contract title and identification number, and shall be sent by post, cable, telex, facsimile transmission, e-mail or personal delivery, to the appropriate addresses designated by the parties for that purpose in the special conditions.
- 4.2. If the sender requires evidence of receipt, it shall state such requirement in its communication and shall demand such evidence of receipt whenever there is a deadline for the receipt of the communication. In any event, the sender shall take all the necessary measures to ensure timely receipt of its communication.
- 4.3. Wherever the contract provides for the giving or issue of any notice, consent, approval, certificate or decision, unless otherwise specified such notice, consent, approval, certificate or decision shall be in writing and the words 'notify', 'consent', 'certify', 'approve' or 'decide' shall be construed accordingly. Any such consent, approval, certificate or decision shall not unreasonably be withheld or delayed.
- 4.4. Any oral instructions or orders shall be confirmed in writing.

expiration of the warranty period, transfer immediately to the contracting authority, at the contracting authority's request and cost, the benefit of such obligation for the unexpired duration thereof.

- 6.7. If the contractor enters into a subcontract without approval, the contracting authority may, without formal notice thereof, apply as of right the sanction for breach of contract provided for in Articles 35 and 36.
- 6.8. If a subcontractor is found by the contracting authority or the project manager to be incompetent in discharging its duties, the contracting authority or the project manager may request the contractor forthwith, either to provide a subcontractor with qualifications and experience acceptable to the contracting authority as a replacement, or to resume the implementation of the tasks itself.

## **OBLIGATIONS OF THE CONTRACTING AUTHORITY**

### **Article 7 - Supply of documents**

- 7.1. Save where otherwise provided in the special conditions, within 30 days of the signing of the contract, the contracting authority shall provide the contractor, free of charge, with a copy of the drawings prepared for the implementation of the tasks and a copy of the specifications and other contract documents. The contractor may purchase additional copies of these drawings, specifications and other documents, in so far as they are available. Upon final acceptance, the contractor shall return to the contracting authority all drawings, specifications and other contract documents.
- 7.2. The contracting authority shall co-operate with the contractor to provide information that the latter may reasonably request in order to perform the contract.
- 7.3. The contracting authority shall notify the contractor of the name and address of the project manager.
- 7.4. Unless it is necessary for the purposes of the contract, the drawings, specifications and other documents provided by the contracting authority shall not be used or communicated to a third party by the contractor without the prior consent of the contracting authority.
- 7.5. The project manager shall have authority to issue to the contractor administrative orders incorporating such supplementary documents and instructions as are necessary for the proper execution of the contract and the remedying of any defects therein.
- 7.6. The special conditions must indicate the procedure used, if necessary, by the contracting authority and the project manager to approve drawings and other documents provided by the contractor.

### **Article 8 - Assistance with local regulations**

- 8.1. The contractor may request the assistance of the contracting authority in obtaining copies of laws, regulations and information on local customs, orders or bye-laws of the country where the supplies are to be delivered which may affect the contractor in the performance of its obligations under the contract. The contracting authority may provide the assistance requested to the contractor at the contractor's cost.

- 9.7. Subject to Article 9.9, the contractor undertakes to treat in the strictest confidence and not make use of or divulge to third parties any information or documents which are linked to the performance of the contract without the prior consent of the contracting authority. The contractor shall continue to be bound by this undertaking after completion of the tasks and shall obtain from each member of its –personnel the same undertaking. However, use of the contract's reference for marketing or tendering purposes does not require prior approval of the contracting authority, except where the contracting authority declares the contract to be confidential.
- 9.8. If the contractor is a joint venture or a consortium of two or more persons, all such persons shall be jointly and severally bound in respect of the obligations under the contract, including any recoverable amount. The person designated by the consortium to act on its behalf for the purposes of the contract shall have the authority to bind the consortium and is the sole interlocutor for all contractual and financial aspects. The composition or the constitution of the joint venture or consortium shall not be altered without the prior consent of the contracting authority. Any alteration of the composition of the consortium without the prior consent of the contracting authority may result in the termination of the contract.
- 9.9. Save where the AICS requests or agrees otherwise, the contractor shall ensure the highest visibility to the financial contribution of the European Union. To ensure such publicity the contractor shall implement among other actions the specific activities described in the special conditions. All measures must comply with the rules in the Communication and Visibility published by the AICS - Khartoum Office
- Any records shall be kept for a 7-year period after the final payment made under the contract. In case of failure to maintain such records the contracting authority may, without formal notice thereof, apply as of right the sanction for breach of contract provided for in Articles 35 and 36.
- 9.10.

#### **Article 9a - Code of conduct**

- 9a.1 The contractor shall at all times act impartially and as a faithful adviser in accordance with the code of conduct of its profession. It shall refrain from making public statements about the project without the prior approval of the contracting authority. It shall not commit the contracting authority in any way without its prior consent and shall, where appropriate, make this obligation clear to third parties.
- Physical abuse or punishment, or threats of physical abuse, sexual abuse or exploitation, harassment and verbal abuse, as well as other forms of intimidation shall be prohibited. The contractor shall also provide to inform the contracting authority of any breach of ethical standards or code of conduct as set in the present Article. In case the contractor is aware of any violations of the abovementioned standards he shall report in writing within 30 days to the contracting authority
- 9a.2 The contractor and its personnel shall respect human rights and applicable data protection rules.
- 9a.3 The contractor shall respect environmental legislation applicable in the country where the supplies have to be delivered and internationally agreed core labour standards, i.e. the ILO core labour standards, conventions on freedom of association and collective bargaining, elimination of forced and compulsory labour, elimination of discrimination in

to the contracting authority without delay. In the event of such conflict, the contractor shall immediately take all necessary steps to resolve it.

- 9.b.2 The contracting authority reserves the right to verify that such measures are adequate and may require additional measures to be taken if necessary. The contractor shall ensure that its personnel, including its management, is not placed in a situation which could give rise to conflict of interests. Without prejudice to its obligation under the contract, the contractor shall replace, immediately and without compensation from the contracting authority, any member of its personnel exposed to such a situation.
- 9.b.3 The contractor shall refrain from any contact which would compromise its independence or that of its personnel.
- 9.b.4 The contractor shall limit its role in connection with the project to the provision of the supplies described in the contract.
- 9.b.5 The contractor and anyone working under its authority or control in the performance of the contract or on any other activity may be excluded from access to other EU budget/EDF funds available under the same project. However, if the contractor is able to prove that his involvement in previous stage of the project does not constitute unfair competition, he may participate, subject to prior approval of the contracting authority.

#### **Article 10 - Origin**

- 10.1. Under the Multiannual Financial Framework 2014-2020 (contracts/lots below EUR 100 000 under CIR) and under the Multiannual Financial Framework 2021-2027: All goods purchased can originate in any country.

Under the Multiannual Financial Framework 2014-2020 (contracts/lots above EUR 100 000 under CIR and independently of the value for other instruments):

- 10.2. All goods shall have their origin in any eligible source country as defined in the instructions to tenderers and the special conditions.
- 10.3 The contractor must certify that the goods tendered comply with this requirement, specifying their countries of origin. It may be required to provide more detailed information in this respect.
- 10.4.1 The contractor shall document the origin at the time of provisional acceptance. Failure to comply with this obligation may lead, after formal notice, to termination of the contract and/or suspension of payment.

#### **Article 11 - Performance guarantee**

- 11.1. The contractor shall, together with the return of the countersigned contract, furnish to the contracting authority with a guarantee for the full and proper execution of the contract. The amount of the guarantee shall be as specified in the special conditions. It shall be in the range of 5 and 10% of the total contract price, including any amounts stipulated in addenda to the contract.
- 11.2. The performance guarantee shall be held against payment to the contracting authority for any loss resulting from the contractor's failure to perform its contractual obligations under the contract.

However, compensation for loss or damage resulting from fraud or gross negligence of the contractor, its personnel, its subcontractors and any person for which the contractor is answerable, can in no case be capped.

b) Contractor's liability in respect of the contracting authority

At any time, the contractor shall be responsible for and shall indemnify the contracting authority for any damage caused to the contracting authority by the contractor, its personnel, its subcontractors and any person for which the contractor is answerable.

Compensation for damage resulting from the contractor's liability in respect of the contracting authority is capped at an amount equal to one million euros if the contract value is less than or equal to one million euros. If the contract value is greater than one million euros, compensation for damages resulting from the contractor's liability shall be capped to the contract value.

However, compensation for loss or damage resulting from the contractor's liability in case of bodily injury, including death, can in no case be capped. The same applies to compensation for any damages of any kind resulting from fraud or gross negligence of the contractor, its personnel, its subcontractors and any person for which the contractor is answerable.

c) Contractor's liability in respect of third parties

The contractor shall, at its own expense, indemnify, protect and defend, the contracting authority, its agents and employees, from and against all actions, claims, losses or damage, direct or indirect, of whatever nature (hereinafter 'claim(s)') arising from any act or omission by the contractor, its personnel, its subcontractors and/or any person for which the contractor is answerable, in the performance of its duties.

The contracting authority must notify any third party claim to the contractor as soon as possible after the contracting authority becomes aware of them.

If the contracting authority chooses to challenge and defend itself against the claim(s), the contractor shall bear the reasonable costs of defence incurred by the contracting authority, its agents and employees.

Under these general conditions, the agents and employees of the contracting authority, as well as the contractor's personnel, its subcontractors and any person for which the contractor is answerable are considered to be third parties.

The contractor shall treat all claims in close consultation with the contracting authority

Any settlement or agreement settling a claim requires the prior express consent of the contracting authority and the contractor.

12.2. Insurance

a) Insurance – general issues

At the latest together with the return of the countersigned contract, and for the period of implementation of the tasks, the contractor shall ensure that itself, its personnel, its subcontractors and any person for which the contractor is answerable, are adequately insured with insurance companies recognized on the international insurance market, unless the contracting authority has given its express written consent on a specific insurance company.

### **Article 13 - Programme of implementation of the tasks**

- 13.1. If the special conditions so require, the contractor shall submit a programme of implementation of the tasks for the approval of the project manager. The programme shall contain at least the following:
- a) the order in which the contractor proposes to perform the contract including design, manufacture, delivery to place of receipt, installation, testing and commissioning;
  - b) the time limits within which submission and approval of the drawings are required;
  - c) a general description of the methods which the contractor proposes to adopt for executing the contract; and
  - d) such further details and information as the project manager may reasonably require.
- 13.2. The special conditions shall specify the time limit within which the programme of implementation of the tasks must be submitted to the project manager for approval. They may set time limits within which the contractor must submit all or part of the detailed drawings, documents and items. They shall also state the deadline for the project manager's approval or acceptance of the programme of implementation, detailed drawings, documents and items.
- 13.3. The approval of the programme by the project manager shall not relieve the contractor of any of its obligations under the contract.
- 13.4. No material alteration to the programme shall be made without the approval of the project manager. If, however, the progress of the implementation of the tasks does not conform to the programme, the project manager may instruct the contractor to submit a revised programme in accordance with the procedure laid down in Article 13.

### **Article 14 - Contractor's drawings**

- 14.1. If the special conditions so provide, the contractor shall submit to the project manager for approval:
- a) the drawings, documents, samples and/or models, according to the time limits and procedures laid down in the special conditions or in the programme of implementation of the tasks;
  - b) such drawings as the project manager may reasonably require for the implementation of the tasks.
- 14.2. If the project manager fails to notify its decision of approval referred to in Article 14.1 within the time limits referred to in the contract or the approved programme of implementation of the tasks, such drawings, documents, samples or models shall be deemed to be approved at the end of the time limits specified. If no time limit is specified, they shall be deemed to be approved 30 days after receipt.
- 14.3. Approved drawings, documents, samples and models shall be signed or otherwise identified by the project manager and shall not be departed from except as otherwise instructed by the project manager. Any contractor's drawings, documents, samples or models which the project manager refuses to approve shall be modified to meet the requirements of the project manager and resubmitted by the contractor for approval. Within 15 days of being notified of the project manager's remarks, the contractor shall make the requisite corrections, adjustments etc. to the documents, drawings etc. The corrected or adjusted documents, drawings etc. shall be resubmitted for the project manager's approval under the same procedure.

## **Article 16 - Tax and customs arrangements**

- 16.1. Save where otherwise provided in the special conditions, the terms of delivery of the goods shall be DDP (Delivered Duty Paid) – Incoterms 2010, International Chamber of Commerce.

## **Article 17 - Patents and licences**

- 17.1. Save where otherwise provided in the special conditions, the contractor shall indemnify and hold the contracting authority harmless for all damages and cost incurred due to any claim brought by any third party including creators and intermediaries for alleged or actual violations of intellectual, industrial or other property rights of any kind whatsoever based on the contracting authority's use as specified in the contract of patents, licenses, drawings, designs, models, or brand or trademarks, except where such infringement results from compliance with the design or specification provided by the contracting authority.
- 17.2. All industrial, intellectual and other property rights (including but not limited to patent rights and copyright) developed in connection with the tasks by or on behalf of the contractor, including but not limited to any rights in any documents prepared for the purpose of the contract or the tasks, shall remain vested in the contractor but the contracting authority shall have an irrevocable, royalty-free, non-exclusive licence of the above-mentioned rights for the purpose of the contract.

Such licence shall carry the right to grant sub-licences and shall be transferable by the contracting authority to third parties without the consent of the contractor being required.

All industrial, intellectual and other property rights (including but not limited to patent rights and copyright) developed in connection with the tasks by or on behalf of the contracting authority, including but not limited to any rights in any documents prepared for the purpose of the contract or the tasks, shall remain vested in the contracting authority but the contractor shall have the right at its cost to copy, use and obtain communication of these documents for the purpose of the contract.

Upon and notwithstanding any termination of the contract howsoever arising, as well as after completion of the tasks, the contracting authority shall continue to have the benefit of the licence referred to in Article 17.2, first paragraph.

## **IMPLEMENTATION OF THE TASKS AND DELAYS**

### **Article 18 - Commencement order**

- 18.1. Subject to the special conditions, the contracting authority shall fix the date on which implementation of the tasks is to commence and advise the contractor thereof either in the notification of award of the contract or by administrative order.
- 18.2. Save where the parties agree otherwise, implementation of the tasks shall begin no later than 90 days following notification of award of contract. Unless this delay results from the contractor default, after that date the contractor shall be entitled not to implement the contract and to obtain its termination and/or compensation for the damage it has suffered. The contractor shall forfeit this right unless it exercises it within 30 days of the expiry of the 90-day period.

## **Article 21 - Delays in implementation of the tasks**

- 21.1. If the contractor fails to deliver any or all of the goods or perform the services within the period of implementation of the tasks specified in the contract, the contracting authority shall, without formal notice and without prejudice to its other remedies under the contract, be entitled to liquidated damages for every day, or part thereof, which shall elapse between the end of the period of implementation of the tasks, or extended period of implementation of the tasks under article 20, and the actual date of completion. The daily rate of liquidated damages is 5/1000 of the value of the undelivered supplies to a maximum of 15% of the total contract price.
- 21.2. If the non-delivery of any of the goods prevents the normal use of the supplies as a whole, the liquidated damages provided for in Article 21.1 shall be calculated on the basis of the total contract price.
- 21.3. If the contracting authority has become entitled to claim at least 15% of the total contract price it may, after giving notice to the contractor:
  - seize the performance guarantee; and/or
  - terminate the contract,
  - enter into a contract with a third party for the provision of the balance of the supplies at the contractor's cost.

## **Article 22 - Amendments**

- 22.1. Contract amendments must be formalised by a contract addendum signed by both parties or by an administrative order issued by the project manager or the contracting authority. Substantial amendments to the contract, including amendments to the total contract price, must be made by means of an addendum. Any contractual amendments must respect the general principles defined in the practical guide.
- 22.2. Subject to the limits of the procedure thresholds set in the practical guide, the contracting authority reserves the right to vary by an administrative order the quantities per lot or per item by +/- 100 % at the time of contracting and during the validity of the contract. The total value of the supplies may not rise or fall as a result of the variation by more than 25% of the tender price. The unit prices quoted in the tender shall be applicable to the quantities procured under the variation.
- 22.3. The project manager and the contracting authority shall have the power to order any amendment to any part of the supplies necessary for the proper completion and/or functioning of the supplies. Such amendments by administrative order may include additions, omissions, substitutions, changes in quality, quantity, form, character, kind, as well as in drawings, designs or specifications where the supplies are to be specifically manufactured for the contracting authority, in method of shipment or packing, place of delivery, and in the specified sequence, method or timing of implementation of the tasks. No administrative order shall have the effect of invalidating the contract, but the financial effect, if any, of all such amendments shall be valued in accordance with Article 22.7.
- 22.4. All administrative orders shall be issued in writing, it being understood that:
  - a) if, for any reason, the project manager or the contracting authority finds it necessary to give an order orally, it shall as soon as possible thereafter confirm the order by an administrative order;
  - b) if the contractor confirms in writing an oral order given for the purpose of Article 22.4.a and the confirmation is not contradicted in writing forthwith by the project

- c) Where the administrative order precedes the adjustment to the total contract price, the contractor shall keep records of the costs of undertaking the amendment and of the time expended thereon. Such records shall be open to inspection by the project manager at all reasonable times.
- 22.9. The contractor shall notify the contracting authority of any change of bank account, using the form in Annex V. The contracting authority shall have the right to oppose the contractor's change of bank account.

## **Article 23 - Suspension**

- 23.1. The contractor shall, on the order of the contracting authority, suspend the execution of the contract or any part thereof for such time or times and in such manner as the contracting authority may consider necessary. The suspension shall take effect on the day the contractor receives the order or at a later date when the order so provides.
- 23.2. Suspension in the event of presumed breach of obligations or irregularities or fraud:
- The contract may be suspended in order to verify whether presumed breach of obligations or irregularities or fraud occurred during the award procedure or the performance of the contract. If these are not confirmed, performance of the contract shall resume as soon as possible.
- 23.3. During the period of suspension, the contractor shall protect and secure the supplies affected at the contractor's warehouse or elsewhere, against any deterioration, loss or damage to the extent possible and as instructed by the project manager, even if supplies have been delivered to the place of acceptance in accordance with the contract but their installation has been suspended by the project manager.
- 23.4. Additional expenses incurred in connection with such protective measures may be added to the total contract price, unless:
- a) otherwise provided for in the contract; or
  - b) such suspension is necessary by reason of some breach or default of the contractor; or
  - c) such suspension is necessary by reason of normal climatic conditions at the place of acceptance; or
  - d) such suspension is necessary for the safety or the proper execution of the contract or any part thereof insofar as such necessity does not arise from any act or default by the project manager or the contracting authority or
  - e) the presumed breach of obligations or irregularities or fraud mentioned in article 23.2 are confirmed and attributable to the contractor.
- 23.5. The contractor shall only be entitled to such additions to the total contract price if it notifies the project manager, within 30 days after receipt of the order to suspend the contract, of its intention to claim them.
- 23.6. The contracting authority, after consulting the contractor, shall determine such additions to the total contract price and/or extension of the period of performance to be granted to the contractor in respect of such claim as shall, in the opinion of the contracting authority, be fair and reasonable.

- a) provide the project manager, temporarily and free of charge, with such assistance, test samples or parts, machines, equipment, tools, labour, materials, drawings and production data as are normally required for inspection and testing;
  - b) agree, with the project manager, on the time and place for tests;
  - c) provide access to the project manager at all reasonable times to the place where the tests are to be carried out.
- 25.4. If the project manager is not present on the date agreed for tests, the contractor may, unless otherwise instructed by the project manager, proceed with the tests, which shall be deemed to have been made in the project manager's presence. The contractor shall immediately send duly certified copies of the test results to the project manager, who shall, if it has not attended the test, be bound by the test results.
- 25.5. When components and materials have passed the above-mentioned tests, the project manager shall notify the contractor or endorse the contractor's certificate to that effect.
- 25.6. If the project manager and the contractor disagree on the test results, each shall give a statement of its views to the other within 15 days of such disagreement arises. The project manager or the contractor may require such tests to be repeated on the same terms and conditions or, if either party so requests, by an expert selected by common consent. All test reports shall be submitted to the project manager, who shall communicate the results of these tests without delay to the contractor. The results of retesting shall be conclusive. The cost of retesting shall be borne by the party whose views are proved wrong by the retesting.
- 25.7. In the performance of their duties, the project manager and any person authorised by him shall not disclose to unauthorised persons information concerning the undertaking's methods of manufacture and operation obtained through inspection and testing.

## **PAYMENTS**

### **Article 26 - General principles**

- 26.1. Payments shall be made in euro or national currency as specified in the special conditions. The special conditions shall lay down the administrative or technical conditions governing payments of pre-financing and final payments made in accordance with the general conditions.
- 26.2. Payments due by the contracting authority shall be made to the bank account mentioned on the financial identification form completed by the contractor. The same form, annexed to the invoice, must be used to report changes of bank account.
- 26.3. Pre-financing payment shall be made within 30 days from the date on which an admissible invoice is registered by the contracting authority. The invoice shall not be admissible if one or more essential requirements are not met. Final payment shall be made within 60 days from the date on which an invoice is registered by the contracting authority, together with the request for provisional acceptance as per article 31.2. The date of payment shall be the date on which the paying account is debited.
- 26.4. The period referred to in article 26.3 may be suspended by notifying the contractor that the invoice cannot be fulfilled because the sum is not due, because appropriate

shall first cover the interest thus established.

Amounts to be repaid to the contracting authority may be offset against amounts of any kind due to the contractor. This shall not affect the parties' right to agree on payment in instalments. Bank charges arising from the repayment of amounts due to the contracting authority shall be borne entirely by the contractor.

Without prejudice to the prerogative of the contracting authority, if necessary, the AICS - Khartoum Office may as donor proceed itself to the recovery by any means.

- 26.11. If the contract is terminated for any reason whatsoever, the guarantee securing the pre-financing may be invoked forthwith in order to repay the balance of the pre-financing still owed by the contractor, and the guarantor shall not delay payment or raise objection for any reason whatever.
- 26.12. Prior to, or instead of, terminating the contract as provided for in Article 36, the contracting authority may suspend payments as a precautionary measure without prior notice.
- 26.13. Where the award procedure or the performance of the contract proves to have been subject to breach of obligations, irregularities or fraud attributable to the contractor, the contracting authority may in addition to the possibility to suspend the performance of the contract in accordance with Article 23.2 and to terminate the contract as provided for in Article 36, suspend payments and/or recover amounts already paid, in proportion to the seriousness of the breach of obligations, irregularities or fraud. In addition to measures referred above, the contracting authority may reduce the contract value in proportion to the seriousness of the irregularities, fraud or of the breach of obligations, including where the activities concerned were not implemented or were implemented poorly, partially or late. The measures described in this paragraph may equally be adopted by the European Commission in pursuance of its administrative powers under the Financial Regulation (Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018, OJ-L 193/30.07.2018, p.1).

#### **Article 27 - Payment to third parties**

- 27.1. Orders for payments to third parties may be carried out only after an assignment made in accordance with Article 5. The assignment shall be notified to the contracting authority.
- 27.2. Notification of beneficiaries of the assignment shall be the sole responsibility of the contractor.
- 27.3. In the event of a legally binding attachment of the property of the contractor affecting payments due to him under the contract, and without prejudice to the time limit laid down in Article 26, the contracting authority shall have 30 days, starting from the day on which it receives notification of the definitive lifting of the obstacle to payment, to resume payments to the contractor.

#### **Article 28 - Delayed payments**

- 28.1. The contracting authority shall pay the contractor sums due in accordance with Article 26.3.

the contract, and the invoice(s) and all such other documentation specified in the special conditions, have been submitted to the contracting authority. Where the supplies are delivered to an establishment of the contracting authority, the latter shall bear the responsibility of bailee, in accordance with the requirements of the law applicable to the contract, during the time which elapses between delivery for storage and acceptance.

#### **Article 30 - Verification operations**

- 30.1. The supplies shall not be accepted until the prescribed verifications and tests have been carried out at the expense of the contractor. The verifications and tests may be conducted before shipment, at the point of delivery and/or at the final destination of the goods.
- 30.2. The project manager shall, during the progress of the delivery of the supplies and before the supplies are taken over, have the power to order or decide:
  - a) the removal from the place of acceptance, within such time or times as may be specified in the order, of any supplies which, in the opinion of the project manager, are not in accordance with the contract;
  - b) their replacement with proper and suitable supplies;
  - c) the removal and proper re-installation, notwithstanding any previous test thereof or of any installation which in respect of materials, workmanship or design for which the contractor is responsible, is not, in the opinion of the project manager, in accordance with the contract;
  - d) that any work done or goods supplied or materials used by the contractor is or are not in accordance with the contract, or that the supplies or any portion thereof do not fulfil the requirements of the contract.
- 30.3. The contractor shall, with all speed and at its own expense, make good the defects so specified. If the contractor does not comply with such order, the contracting authority shall be entitled to employ other persons to carry out the orders and all expenses consequent thereon or incidental thereto shall be deducted by the contracting authority from any monies due or which may become due to the contractor.
- 30.4. Supplies which are not of the required quality shall be rejected. A special mark may be applied to the rejected supplies. This shall not be such as to alter them or affect their commercial value. Rejected supplies shall be removed by the contractor from the place of acceptance, if the project manager so requires, within a period which the project manager shall specify, failing which they shall be removed as of right at the expense and risk of the contractor. Any works incorporating rejected materials shall be rejected.
- 30.5. The provisions of Article 30 shall not affect the right of the contracting authority to claim under Article 21, nor shall it in any way release the contractor from any warranty or other obligations under the contract.

#### **Article 31 - Provisional acceptance**

- 31.1. The supplies shall be taken over by the contracting authority when they have been delivered in accordance with the contract, have satisfactorily passed the required tests, or have been commissioned as the case may be, and a certificate of provisional acceptance has been issued or is deemed to have been issued.

- contractor; and/or
- b) results from any act or omission of the contractor during the warranty period; and/or
  - c) appears in the course of an inspection made by, or on behalf of, the contracting authority.
- 32.3. The contractor shall at its own cost make good the defect or damage as soon as practicable. The warranty period for all items replaced or repaired shall recommence from the date when the replacement or repair was made to the satisfaction of the project manager. If the contract provides for partial acceptance, the warranty period shall be extended only for the part of the supplies affected by the replacement or repair.
- 32.4. If any such defect appears or such damage occurs during the warranty period, the contracting authority or the project manager shall notify the contractor. If the contractor fails to remedy a defect or damage within the time limit stipulated in the notification, the contracting authority may:
- a) remedy the defect or the damage itself, or employ someone else to carry out the tasks at the contractor's risk and cost, in which case the costs incurred by the contracting authority shall be deducted from monies due to or from guarantees held against the contractor or from both; or
  - b) terminate the contract.
- 32.5. In case of emergency, where the contractor cannot be reached immediately or, having been reached, is unable to take the measures required, the contracting authority or the project manager may have the tasks carried out at the expense of the contractor. The contracting authority or the project manager shall as soon as practicable inform the contractor of the action taken.
- 32.6. The warranty obligations shall be stipulated in the special conditions and technical specifications.
- 32.7. Save where otherwise provided in the special conditions, the duration of the warranty period shall be 365 days. The warranty period shall commence on the date of provisional acceptance and may recommence in accordance with Article 32.3.

### **Article 33 - After-sales service**

- 33.1. An after-sales service, if required by the contract, shall be provided in accordance with the details stipulated in the special conditions. The contractor shall undertake to carry out or have carried out the maintenance and repair of supplies and to provide a rapid supply of spare parts. The special conditions may specify that the contractor must provide any or all of the following materials, notifications and documents pertaining to spare parts manufactured or distributed by the contractor:
- a) such spare parts as the contracting authority may choose to purchase from the contractor, it being understood that this choice shall not release the contractor from any warranty obligations under the contract;
  - b) in the event of termination of production of the spare parts, advance notification to the contracting authority to allow it to procure the parts required and, following such termination, provision at no cost to the contracting authority of the blueprints, drawings and specifications of the spare parts, if and when requested.

## **Article 36 - Termination by the contracting authority**

- 36.1. The contracting authority may, at any time and with immediate effect, subject to Article 36.9, terminate the contract, except as provided for under Article 36.2.
- 36.2. Subject to any other provision of these general conditions, the contracting authority may, by giving seven day notice to the contractor, terminate the contract in any of the following cases where:
- a) the contractor is in serious breach of contract for failure to perform its contractual obligations;
  - b) the contractor fails to comply within a reasonable time with the notice given by the project manager requiring it to make good the neglect or failure to perform its obligations under the contract which seriously affects the proper and timely implementation of the tasks;
  - c) the contractor refuses or neglects to carry out any administrative orders given by the project manager;
  - d) the contractor assigns the contract or subcontracts without the authorisation of the contracting authority;
  - e) the contractor is bankrupt, subject to insolvency or winding up procedures, is having its assets administered by a liquidator or by the courts, has entered into an arrangement with creditors, has suspended business activities, or is in any analogous situation arising from a similar procedure provided for under national law or regulations;
  - f) any organisational modification occurs involving a change in the legal personality, nature or control of the contractor, unless such modification is recorded in an addendum to the contract;
  - g) any other legal disability hindering performance of the contract occurs;
  - h) the contractor fails to provide the required guarantees or insurance, or the person providing the earlier guarantee or insurance is not able to abide by its commitments;
  - i) the contractor has been guilty of grave professional misconduct proven by any means which the contracting authority can justify;
  - j) it has been established by a final judgment or a final administrative decision or by proof in possession of the contracting authority that the contractor has been guilty of fraud, corruption, involvement in a criminal organisation, money laundering or terrorist financing, terrorist related offences, child labour or other forms of trafficking in human beings or circumventing fiscal, social or any other applicable legal obligations, including through the creation of an entity for this purpose;
  - k) the contractor, in the performance of another contract financed by the EU budget/EDF funds has been declared to be in serious breach of contract, which has led to its early termination or the application of liquidated damages or other contractual penalties or which has been discovered following checks, audits or investigations by the European Commission, the contracting authority, OLAF or the Court of Auditors;
  - l) after the award of the contract, the award procedure or the performance of the contract proves to have been subject to breach of obligations, irregularities or fraud;
  - m) the award procedure or the performance of another contract financed by the EU budget/EDF funds proves to have been subject to breach of obligations, irregularities or fraud which are likely to affect the performance of the present contract;

- 36.10. This contract shall be automatically terminated if it has not given rise to any payment in the two years following its signing by both parties.

#### **Article 37 - Termination by the contractor**

- 37.1. The contractor may, by giving 14 days' notice to the contracting authority, terminate the contract if the contracting authority:
- fails to pay the contractor the amounts due under any certificate issued by the project manager after the expiry of the time limit stated in Article 28.3; or
  - consistently fails to meet its obligations after repeated reminders; or
  - suspends the delivery of the supplies, or any part thereof, for more than 180 days, for reasons not specified in the contract or not attributable to the contractor's breach or default.
- 37.2. Such termination shall be without prejudice to any other rights of the contracting authority or the contractor acquired under the contract.
- 37.3. In the event of such termination, the contracting authority shall pay the contractor for any loss or damage the contractor may have suffered.

#### **Article 38 - Force majeure**

- 38.1. Neither party shall be considered to be in default or in breach of its obligations under the contract if the performance of such obligations is prevented by any circumstances of *force majeure* which arises after the date of notification of award or the date when the contract becomes effective
- 38.2. The term *force majeure*, as used herein covers any unforeseeable events, not within the control of either party and which by the exercise of due diligence neither party is able to overcome such as acts of God, strikes, lock-outs or other industrial disturbances, acts of the public enemy, wars whether declared or not, blockades, insurrection, riots, epidemics, landslides, earthquakes, storms, lightning, floods, washouts, civil disturbances, explosions. A decision of the European Union to suspend the cooperation with the partner country is considered to be a case of force majeure when it implies suspension of funding this contract.
- 38.3. Notwithstanding the provisions of Articles 21 and 36, the contractor shall not be liable to forfeiture of its performance guarantee, 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*. The contracting authority shall similarly not be liable, notwithstanding the provisions of Articles 28 and 37, for the payment of interest on delayed payments, for non-performance or for termination by the contractor for default if, and to the extent that, the contracting authority's delay or other failure to perform its obligations is the result of *force majeure*.
- 38.4. If either party considers that any circumstances of *force majeure* have occurred which may affect performance of its obligations, it shall promptly notify the other party and the project manager, giving details of the nature, the probable duration and the likely effect of the circumstances. Unless otherwise directed by the project manager in writing, the contractor shall continue to perform its obligations under the contract as far as is reasonably practicable, and shall seek all reasonable alternative means for performance of its obligations which are not prevented by the *force majeure* event. The contractor shall not put into effect alternative means unless directed so to do by the project manager.

- 40.3. In the absence of an amicable settlement, a party may notify the other party requesting a settlement through conciliation by a third person. If the Italian Authority/AICS is not a party to the contract, it may accept to intervene as conciliator. The other party shall respond to the request for conciliation within 30 days. Unless the parties agree otherwise, the maximum time period laid down for reaching a settlement through conciliation shall be 120 days from the notification requesting such a procedure. Should a party not agree to the other party's request for conciliation, should a party not respond in time to that request or should no settlement be reached within the maximum time period, the conciliation procedure is considered to have failed.
- 40.4. If the amicable settlement procedure and, if so requested, the conciliation procedure fails, each party may refer the dispute to either the decision of a national jurisdiction or arbitration, as specified in the special conditions.

#### **Article 41 - Applicable law**

- 41.1. This contract shall be governed by the law of the country of the contracting authority or, where the contracting authority is the European Commission, by the applicable European Union law complemented where necessary by the law of Italy.

### **FINAL PROVISIONS**

#### **Article 42 - Administrative sanctions**

- 42.1. Without prejudice to the application of other remedies laid down in the contract, a sanction of exclusion from all contracts and grants financed by the EU, may be imposed, after an adversarial procedure in line with the applicable Financial Regulation,, upon the contractor who, in particular,
- a) is guilty of grave professional misconduct, has committed irregularities or has shown significant deficiencies in complying with the main obligations in the performance of the contract or has been circumventing fiscal, social or any other applicable obligations, including through the creation of an entity for this purpose. The duration of the exclusion shall not exceed the duration set by final judgement or final administrative decision or, in the absence thereof, three years;
  - b) is guilty of fraud, corruption, participation in a criminal organisation, money laundering, terrorist-related offences, child labour or trafficking in human beings. The duration of the exclusion shall not exceed the duration set by final judgement or final administrative decision or, in the absence thereof, five years;
- 42.2. In the situations mentioned in Article 42.1, in addition or in alternative to the sanction of exclusion, the contractor may also be subject to financial penalties up to 10% of the total contract price.
- 42.3. Where the contracting authority is entitled to impose financial penalties, it may deduct such financial penalties from any sums due to the contractor or call on the appropriate guarantee.
- 42.4. The decision to impose administrative sanctions may be published on a dedicated internet-site, explicitly naming the contractor.

The contractor or any other person whose personal data is processed by the data controller in relation to this contract has specific rights as a data subject under Chapter III (Articles 14-25) of Regulation (EU) 2018/1725, in particular the right to access, rectify or erase their personal data and the right to restrict the processing of their personal data or, where applicable, the right to object to processing or the right to data portability.

Should the contractor or any other person whose personal data is processed in relation to this contract have any queries concerning the processing of its personal data, it shall address itself to the data controller. They may also address themselves to the Data Protection Officer of the data controller. They have the right to lodge a complaint at any time to the European Data Protection Supervisor.

Details concerning the processing of personal data are available in the data protection notice referred to in the special conditions.

#### **44.2. Processing of personal data by the contractor**

The processing of personal data by the contractor shall meet the requirements of the general conditions and be processed solely for the purposes set out by the controller.

The contractor shall assist the controller for the fulfilment of the controller's obligation to respond to requests for exercising rights of person whose personal data is processed in relation to this contract as laid down in Chapter III (Articles 14-25) of Regulation (EU) 2018/1725. The contractor shall inform without delay the controller about such requests.

The contractor may act only on documented written instructions and under the supervision of the controller, in particular with regard to the purposes of the processing, the categories of data that may be processed, the recipients of the data and the means by which the data subject may exercise its rights.

The contractor shall grant personnel access to the data to the extent strictly necessary for the implementation, management and monitoring of the contract. The contractor must ensure that personnel authorised to process personal data has committed itself to confidentiality or is under appropriate statutory obligation of confidentiality in accordance with the provisions of Article 9.7 of these general conditions.

The contractor shall adopt appropriate technical and organisational security measures, giving due regard to the risks inherent in the processing and to the nature, scope, context and purposes of processing, in order to ensure, in particular, as appropriate:

- (a) the pseudonymisation and encryption of personal data;
- (b) the ability to ensure the ongoing confidentiality, integrity, availability and resilience of processing systems and services;
- (c) the ability to restore the availability and access to personal data in a timely manner in the event of a physical or technical incident;
- (d) a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the security of the processing;
- (e) measures to protect personal data from accidental or unlawful destruction, loss, alteration, unauthorised disclosure of or access to personal data transmitted, stored or otherwise processed.

# ***ANNEX II + III:*** **TECHNICAL SPECIFICATIONS + TECHNICAL OFFER - PART 2**

**Contract title: Supply of Biomedical Equipment for three Health Centres in Sudan**

**Publication reference: 8643078**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

[The General Requirements Compliance Form](#)

[The ITEM Compliance Form](#)

## **NOTES:**

Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),  
Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words 'compliant' or 'yes' are not sufficient)  
Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

1	2	3	4	5	6
LOT 1	HOSPITAL FURNITURE				
04-BWG	Bed, ward, General Medicine, w/mattress	Mounted on 4 swivel castors, of which two with brakes.	Four castors, two of them has two brakes.		
		Protective bumpers at all four corners.	Protective bumpers at corners		
		Bed-ends, finished with panels.	Bed-ends, finished with panels.		
		Four section platform, epoxy-painted steel mesh with side supports to immobilise mattress.	Four section platform, epoxy-painted steel mesh with side supportsto immobilize mattress.		
		Mattress cover removable via side zipper.	With mattress cover		
		Manually adjustable backrest (to approx. 80 degrees), leg section and foot section.	Manual adjustable backrest, leg and foot section.		
		With adjustable and removable folding side rails.	Adjustable and removable side rails		
		High resistance to corrosion (tropical environment).	Withstand tropical environment with high corrosion resistance		
		Frame: epoxy coated tubular steel.	Frame coated with epoxy		
		Mattress: 4 section, high-density polyurethane foam, density approx. 30kg/m3.	High-density polyurethane foam, density approx. 30kg/m3.		



ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



		Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable.	Flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable.	
		Sleeping surface: approx. 2000 x 850mm (l x w).	2150*950 mm	
		Height of surface: 550mm.	450-700mm	
		Mattress: 120mm (h)	120 mm	
		Frame, diameter: 30mm.	30 mm	
		Swivel castors, diameter: 125mm.	125 mm	
		Carrying capacity: approx. 150kg.	250 Kg	
		Mattress: high-density polyurethane foam, density approx. 30 kg/m3.	High-density polyurethane foam, density approx. 30 kg/m3.	



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

1	2	3	4	5	6
		Cover: plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable	Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable		
		height approx. 15 cm (h)	15 cm approx.		
		Mattress cover removable via side zipper.	Removable Cover via side zipper.		
		Pillow: Made of Anti-bacteria, anti-static, toxic-free, high-density foam core, provided with removable and washable hard cotton cover.	Made of Anti-bacteria, anti-static, toxic-free, high-density foam core, provided with removable and washable hard cotton cover.		
		pillow cover removable via side zipper.	Removable via side zipper.		
04-CAB	Cabinet, Bedside	Bedside cabinet/locker, sheet steel epoxy coated locker with shelf	Sheet steel epoxy coated locker with shelf		
		one drawer and one storage cabinet with a door	Two drawers and one storage cabinet with a door		
		Overall dimensions $\pm 50 \times 40 \times 70$ cm (lxwxh).	L480XW470XH780.		
		On feet.	No Feet		
04-CHB	Chair, blood/sample collection	Chair for Blood sample collection			
		Frame made of oval steel tubing	Steel Tubing		
		Seat, back and armrests padded.	Seat, back and armrests padded.		
		Seat height: 500 mm.	500 mm		
		Distance between wedge-shaped padded armrests: 500 mm	500 mm approx.		
		Maximum weight load 150 kg	200 Kg		

1	2	3	4	5	6
04-COE	Couch, Examination/Treatment	Table, examination, 2 section (knock-down construction) 1800 mm (l) x 750 mm (w) x 760 mm (h).	Two Section, 1250 x 600 x 850mm (L x W x H).		
		Folding table with top in two sections.	Not folded, two sections		
		Drop leaf section (head piece) 490 mm (l) x 750 mm (w).	Approx. 500 x 600mm (L x W).		
		Removable and adjustable by ratchet type frame.	Adjustable		
		Frame made of mild steel tubular or rectangular sections of approx 40mm x 40 mm with minimum 2 mm thickness.	Mild steel tubular, 40 x 40 mm approx. and approx 2 mm thickness		
		With cross bars for stability.	Good stability		
		Square section ends to be fitted with rubber or plastic bungs.	Section ends fitted with rubber stumps.		
		Sheet metal parts minimum 1.5 mm thickness.	1.5 mm		
04-COG	Couch, Gynecological	Gynaecological Table with accessories, fully mechanical, made in three sections adjustable with ratchet.	Three section delivery table		
		CONFIGURATION: 3 section, Backrest, seat, foot	Three section: back rest (adjusted by gas spring), knee rest function (controlled by gear mechanic system);		
		FRAMES:			
		Tube section: Circular	Rectangular		
		Material: Aluminium Alloy Tube (30 mm diameter)	Aluminium Alloy Tube approx. 30mm		
		BACKREST:			
		Adjustable: 0 to 70°	0 to 70°		
		Adj. Mechanism: Ratchet	Ratchet adjustable mechanism		
		Padded (cm): Yes, 8 cm (High Density Urethane)	Well padded		
		Upholstery: Yes, leatherette, Colour Blue or Black	Blue or pink		
		Fire Retardant: Yes	Fire Retardant		
		Chemical Resistant: Yes	Chemical Resistant		
		SEAT:			
		Padded (cm): Yes, 8 cm (High Density Urethane)	Padded with great quality		
		Upholstery: Yes, leatherette, Colour Green/Blue	Blue or Pink color		

1	2	3	4	5	6
		Fire Retardant: Yes	Fire Retardant		
		Chemical Resistant: Yes	Chemical Resistant		
		FOOT:			
		Height adjustment: Yes, with Ratchet	With ratchet		
		Padded (cm): Yes, 8 cm, (High Density Urethane)	Well padded		
		Upholstery: Yes, leatherette, Colour Green/Blue/Black	Blue or pink		
		Fire Retardant: Yes	Fire Retardant		
		Chemical Resistant: Yes	Chemical Resistant		
		FLOOR FOOTING: Rubber Stopping	Foot mounted on rubber stopping		
		ACCESSORIES :			
		Knee crutches (qt): 2, Adjustable made in chromed steel	Provided		
		Bowl (basin) (qt): 1, Stainless Steel (diameter 320 mm)	Provided		
04-FOR	Folding screen room dividers	Mobile, three section, stove enamelled steel or other rustproof finish.	Folding Ward Screen 4 Sections Hospital Screen		
		Flush type hinges.	Come with hinges		
		Wide legs to give stability in all positions.	Provide wide stability in all positions		
		3-4 panels, plastic or fabric curtains, foldable, each panel to be 60cm wide and 170cm high.	3-4 panels, fabric curtains, foldable, 500*1800mm		
		On 6cm (rubber tired) castor wheels.	Mounted on rubber castor wheels		
		Including 3 sets of cotton curtains	3 sets of cotton curtains		
04-IVP	IV Pole, 2 hooks	Movable height adjustable infusion shaft stand, pedestal frame	Movable IV stand on pedestal frame		
		Heavy carriage mounted on 5 swivel castors, of which two anti-static, electrically non-conductive	Heavy carriage mounted on 5 swivel castors, of which two anti-static		
		Support column provides with solid manual lever to slide telescopic upper part at the required height.	Height is adjustable by telescopic mechanism and can be locked into position by a hand wheel.		



1	2	3	4	5	6
		Double hook stainless steel at the top of telescopic rod.	Four stainless steel Hooks		
		High resistance to corrosion (tropical environment)	High resistance to corrosion		
		Frame: Austenitic stainless steel 18/10.	stainless steel		
		Wheel base: strong plastic.	strong plastic.		
		Dimensions:			
		Height, adjustable: 1200 to 2000mm.	1500 mm		
		Wheel base, diameter: 550mm.	500 mm		
		Frame, diameter: 25mm.	25 mm		
		Swivel castors, diameter: 50mm.	50mm		
04-TRIO2	Trolley, Inox, 50 x 70 cm	Trolley made entirely of Inox Steel, with handles and swiveling wheels	Made of stainless steel with handles and swiveling wheels		
		Size approximately: 500 (L) x 700 (W) x 750 (H) mm	500xx800x750 mm		
		Trolley mounted on four 10 cm swivel castor, of which two have breaksrubber swivel	Mounted on 4 x 100mm breaks rubber swivel		
04-TRIO2	Trolley, Inox, 90 x 60 cm	Trolley made entirely of Inox Steel, with handles and swivelling wheels	Made of stainless steel with handles and swiveling wheels		
		Size approximately: 900 (L) x 600 (W) x 750 (H) mm	500xx1000x750 mm		
		Trolley mounted on four 10 cm swivel castor, of which two have breaksrubber swivel	Made of stainless steel with handles and swiveling wheels		
04-XRW	X-RAY, Film viewer	Single viewer	Single viewer		
		Halogen lamp	Halogen lamp		
		Electric power supply , 220-240 V	220-240V, 50 Hz		
		On/off switch	On/off switch		
LOT 1	MEDICAL DEVICE				
MDD032	Hammer	Hammer for reflexology	Reflexology function		
		Handle made light metal cast	made light metal cast		

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

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		Plastic rubber head	Plastic rubber head
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1	2	3	4	5	6
<b>MDD37</b>	<b>Ophthalmoscope/Retinoscope</b>	<b>Ophtalmoscope with Retinoscope Head (slit Retinoscope), with handle and case</b>			
		Sealed optics to keep out dust and dirt to allow years of maintenance-free operation.	Sealed optics		
		Durable and shock-resistant, easy to clean.	easy to clean.		
		Handle-based rheostat for quick light-intensity adjustment: Handle with on/off switch.	Handle with on/off switch.		
		Wide range of practical apertures	Wide range of practical apertures		
		Cobalt blue filter for corneal exams, fixation target, or slit Cradle with built in charger	Cobalt blue filter		
		Halogen bulb, 2.5 V provides with bright white light. (including Spare Bulbs)	2.5 V Halogen bulb, Provided		
		Supplied with:			
		- 1 x spare 2.5 V halogen bulb.			
		A 220V-50Hz mono-phase electrical source with line connection European or SCHUKO plug	A 220V-50Hz		
		Retinoscope Head with Integrated polarizing filter	Integrated polarizing filter		
		Easy-to-use convergence and rotation.	Easy-to-use convergence and rotation.		
		High intensity halogen xenon bright white light, sharp retinal reflection+			
		Battery operated, rechargeable: works with 2 AA-batteries (1.5 V / LR6 alkaline).	2 AA-batteries		
<b>MDD09</b>	<b>Ophtalmoscope/Otoscope</b>	<b>High quality metal construction for strength and durability</b>			
		Knurled surface making the handle non-slip and hygienic.	non-slip and hygienic		
		The set contains the followings:			
		Handle with battery (Uses 2 x C size batteries)	Handle with battery		
		Filters : ( 2 ) at least	Two filters		
		Otoscope head with:			

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		reusable ear speculum (2 ) for Adults and ( 2) for children	reusable ear speculum		
		Magnification: (1, 5 x) at least.	(1, 5 x) at least.		
		Suitable bellows to detect movement in the Tympanic membrane	detect movement of the Tympanic membrane		
		Nasal speculum (sterilizable )	Autoclave able		
		Throat Lamp (halogen)	Throat Lamp		
		(2 ) Laryngeal mirrors stainless steel and sterilizable for Adults and for children	2 ) Laryngeal mirrors stainless steel		
		Tongue depressor holder (for reusable tongue depressor) + reusable (sterilizable) tongue depressor	Tongue depressor holder		
		Tongue depressor holder (for disposable tongue depressor) + (50 ) wooden tongue depressor	Provided		
		Battery ( 3 ,5 ) v.	Battery ( 3 ,5 )		
		Spare Parts: Halogen bulbs (4).	Provided		
		The set must be in a suitable and durable case.	suitable and durable case.		
		Option alternative : Rechargeable handle with probable charger (power supply 220 v – 50 Hz)	power supply 220 v – 50 Hz)		
MDD36	Oxygen, Cylinder, w regulator	Oxygen cylinder complete with valve regulator and flowmeter;	Oxygen cylinder supplied with oxygen regulator and flowmeter		
		Rechargeable	Rechargeable		
		Seamless	Seamless		
		Made of alloy of drawn steel which is suitable for oxygen cylinder.	Made 37 MN Steel		
		Test hydraulic pressure 300 bar	250 bar with cap		
		True safety operation pressure at least 200 bar.	safety operation pressure, 150 bar/testing		

# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

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		Cylinder volume 40 L H <sub>2</sub> O or 6 m <sup>3</sup> O <sub>2</sub> under pressure 15 bar approx.	40 L, 15 bar.		
		Cylinder weight (45-50) kg ± 10%	45 Kg		

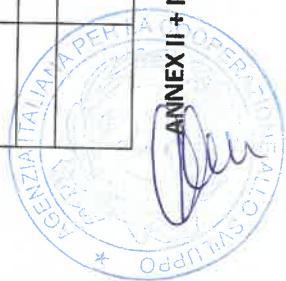


# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		Cylinder neck fitted with side nozzle, bull nose valve for connecting oxygen regulator	bull nose valve for connecting oxygen regulator		
		Color-coded - BSS specifications and coloring standard	White color		
		Value with hand wheel for safety opening / closing.	safety opening / closing valve		
		Cylinder with bottom.	N/A		
		Duly tested by authorized company.	Tested by authorized company		
		Accessories supplied to fit oxygen cylinder value ; With Oxygen pressure regulator			
		High pressure manometer to indicate pressure level in the cylinder	Oxygen regulator		
		Oxygen flow meter tube calibrated from 0 – 15 liters per minute, with tube nipple outlet.	The pressure gauge indicates the pressure level of the gas cylinder. The range of flow: 0-10/15L/min.		
		Humidifier, bubble through type, couples directly to flow meter autoclavable,	Autoclavable		
		Trolley :			
		Complete with trolley and cylinder holding bracket/ chain. For transporting oxygen cylinder.	Trolley suitable for the 40 L cylinder weight		
		Metal steel construction, epoxy coated – powder with two antistatic rubber wheels.	Metal steel construction with two rubber wheels		
		Set of key spanner and spare parts	Provided		
<b>MDD14</b>	<b>Sphygmomanometer, Adult, Pediatric</b>	<b>Sphygmomanometer Mercury type, desktop model</b>			
		Range of measurement shall be 0 to 300mmHg as standard with at least a precision of +/-3mmHg (static measure)	Tabletop Model 0-300 mmHg. Accuracy +/- 3mmHg		

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



		complete with washable cloth cuffs, with or without velcro fastenings, hand inflation bulb and valve, Rubber tube shall be UV and Ozone resistant.		Washable cloth cuff	
1	2	3	4	5	6
		Mercury compartment with locking safety device carrying case.	Safety locker		
		Cuff sizes:.....	Good quality carrying case		
		Adult: 57X14.5cm. N° 1	54*14.5cm		
		child: 53X10.5cm N° 1	54*14.5cm		
		Spare: blubs, cuffs, tubing, valves	Provided		
		Shall comply with EN 1060-1. CE marked	CE Marked		
MDD12	Stethoscope, (dualHead)	Bowles type			
		Chest piece with diaphragm	Chest piece with diaphragm		
		Dual head, pivoting, aluminum, stainless steel or chrome-plated brass	Dual head, stainless steel plated brass		
		Double cup, dual-use (adult and pediatric auscultation)	Double cup for adults and pediatric		
		chest piece in stainless steel or chromed brass.	stainless steel two sided		
		Adult diaphragm 43mm;	44mm		
		pediatric diaphragm 28mm.	28mm		
		Sensitivity 3.2dB in a range from 50 to 500Hz for cardiology.	3.2dB		
		Sensitivity 8.1dB in a range from 600 Hz to 1,500Hz for pneumology.	N/A		
		Y tube treated rubber with large diameter: 10 mm.	Y tube treated rubber with large diameter: 10 mm.		
		Arms: stainless steel or chrome brass,			



		with spring treated to give lasting spring and maximum reliability and comfort.	stainless steel with maximum reliability and comfort.		
		Removable plastic ear-pieces.	plastic ear-pieces		
		supplied with spare diaphragms, earpiece	Provided		
<b>MDD23</b>	<b>Stethoscope, fetal</b>	Specifications Overall length +/- 15 cm	Approx 15 cm		
		Instrument may be in either single or two pieces,	Single		
		with a foot that unscrews	With unscrew foots		
		Material aluminum	Made of good quality aluminum		



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



2	3	4	5	6
<b>MDD13</b>	<b>Thermometers, Electronic, Infrared, Skin</b>	<p>Description: Thermometer, clinical, digital, 32 - 430C</p> <ul style="list-style-type: none"> <li>• Digital thermometer Celsius scale with switch to Fahrenheit</li> <li>• Safe to use, atraumatic, no glass, no mercury</li> <li>• Measurement range: 32°C to 43°C</li> <li>• Accurate measurement: +/- 0.1°C between 35°C to 41°C</li> <li>• Liquid crystal display, easy to read</li> <li>• Beep sound and switch off</li> <li>• Water proof for ease of cleaning</li> <li>• Battery powered</li> <li>Conforms to EN 12470-3</li> </ul>	<p>Clinical, digital infrared thermometer</p> <p>Celsius scale with switch to Fahrenheit</p> <p>Safe to use</p> <p>35°C-42°C</p> <p>±0.2°C in the range of 35°C-42°C</p> <p>Liquid crystal display, easy to read</p> <p>Beep sound and switch off</p> <p>Easy to clean</p> <p>DC3V, 2*AAA batteries</p> <p>N/A</p>	
<b>MDD28</b>	<b>Torch for eye examination</b>	<p>Torch/flashlight, pre-focused.</p> <p>Heavy-walled plastic case or metal case.</p> <p>Splash waterproof, sealed with o-ring.</p> <p>Lamp head approx. 40mm.</p> <p>Sturdy long-lasting mechanical switch.</p> <p>Light bulb 2.5 V Xenon.</p> <p>Batteries required, 2 x standard alkaline, dry cell batteries (type AA, 1.5V).</p> <p>Supplied with one spare light bulb (2.5V Xenon).</p>	<p>Plastic Case</p> <p>Waterproofed and sealed with o ring</p> <p>40mm. approx</p> <p>long-lasting</p> <p>bulb 2.5 V Xenon.</p> <p>type AA batteries</p> <p>spare light bulb (2.5V Xenon).</p>	
<b>MDD35</b>	<b>Trial Lens Sets, Ophthalmic</b>	<p>TRIAL LENSES/GLASS PRISMS/FRAME SET</p> <p>Plastic rim with leather case</p> <p>Small-aperture trial lens of high quality 266 pieces in aluminum alloy /leather case.</p> <p>The color of the plastic ring: Red with the concave while black with convex.</p> <p>The powers are carved on both sides of the handles according to the power label.</p> <p>Spheres: 40 pairs of each concave and convex</p>	<p>Plastic rim with leather case</p> <p>Light plastic frames in Trial Lens Set 266</p> <p>Red with the concave while black with convex</p> <p>N/A</p>	



#### ANNEX II + III - TECHNICAL SPECIFICATIONS AND OFFER



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1	2	3	4	5	6
		0.25D to 6.00D in 0.25 steps	0.25D to 6.00D in 0.25 steps		
		6.50D to 10.00D in 0.50 steps	6.50D to 10.00D in 0.50 steps		
		11.00D to 15.00D in 1.00 steps	11.00D to 15.00D in 1.00 steps		
		16.00D to 20.00D in 2.00 steps	16.00D to 20.00D in 2.00 steps		
		Cylinders: 20 pairs each of concave and convex	Cylinders: 20 pairs each of concave and convex		
		0.25D to 4.00D in 0.25 steps	0.25D to 4.00D in 0.25 steps		
		4.50D to 6.00D in 0.50 steps	4.50D to 6.00D in 0.50 steps		
		Prisms: 14 pieces	Prisms: 14 pieces		
		0.5 (2)	0.5 (2)		
		1.0 (2)	1.0 (2)		
		2.0 (2)	2.0 (2)		
		3.0 (2)	3.0 (2)		
		4.0 (2)	4.0 (2)		
		5.0	5.0		
		6.0	6.0		
		8.0	8.0		
		10.0	10.0		
		Accessories: 12 pieces	Accessories: 12 pieces		
		Cross cylinder (2), white lens (2), intersecting lens, frosted lens, wicker lens, red lens, green lens,	Cross cylinder (2), white lens (2), intersecting lens, frosted lens, wicker lens, red lens, green lens,		

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

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Tab

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		dark lens,	dark lens,	
		hole lens,	hole lens,	
		crack lens	crack lens	
MDD07	Weightening System, infant	Baby scale : - Full electronic · Portable	Electronic baby scale	
		- Capacity :20 kg	100 KG.	



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		- Division : 10g	50G		
		Construction : Durable, unbreakable sturdy material	ABS plastic part		
		Display : - Digital readings			
		. LCD screen	LCD Screen		
		. Large figures	Large figures		
		. In Kilograms	KG Readings		
		Control system: - Front panel			
		. Button (s) control for on-tare-off functions	On tare off function controlled with button		
		. Automatic: Zero – setting	Zero – setting		
		. Weight lock function (preferable)	N/A		
		Power supply: - Battery operated by using 9 V . , battery (to be included + 1 Spare)	2 X AAA battery, provided		
		. Automatic off switch to save battery life	N/A		
		<b>Baby tray : - Detachable</b>	Removable		
		. Made of unbreakable material	unbreakable material		
		. Easy to clean and disinfect	Easy to clean		
		. Anti-tilt	Anti-tilt		
		. Side with safe edges ends and of suitable heights	Safe edges with suitable heights for protection		
		- Dimensions: 500 x 250 x 100 mm (L x W x H ) (approx.)	610x280x75mm		
		Safety : - All safety measures to be considered for the baby & staff	Safe for use		
		<b>CE approval class (III )</b>	CE Marked		
MDD08	Weighting System, Adult, with height mes	Weighing scale, adult, physician, metric, 200kgx100g	Mechanical column scales with eye-level beam		
		Scale, physician, adult, metric, 6-200 kg - with altimeter	220 kg, 500 lbs or 160 kg / 400 lbs		
		Personal with height scale, heavy duty.	Heavy duty with weight and height scale		
		To weigh up to 200kg x 100 gr.	extra capacity of 220 kg		



1	2	3	4	5	6
		Personal weighing scale with column linking the weighting platform	Simple to operate and easy to read due to eye-level beam		
		Features: - Mobile	Transport castors for mobile use		
		Persons / patients on scale can easily weigh themselves.	Easy to use by patients		
		Platform weighing unit with abase 30 x 35 cm (approx).	335 x 80 x 345 mm		
		Covered with or made of anti-slip material.	Sturdy construction with cast-iron base.		
		Reading : Large with pointer in a strong casing.	read due to eye-level beam.		
<b>LOT 1</b>	<b>MEDICAL EQUIPMENT</b>				
<b>02-AER</b>	<b>Aerosol Generators</b>	Portable, compressor-driven nebulizer pump	Strong Steel case equipped with a carry handle, Silenced piston compressor driven nebulizer		
		Easy to operate with sturdy design for use in demanding environment	Reliable and simple to use It embody all the dictates of modern aerosol therapy techniques		
		Positive pressure up to 0.9bar	350 kPa		
		Cup capacity minimum 3ml to maximum 10ml	16 ml		
		Nebulization, approximately 0.1 to 0.2ml/minute	0.35 ml/min (60 kPa)+ 0.80 ml/min (130kPa)		
		Residual volume maximum 2ml	0.7 ml		
		Flow delivery range (under load) 0.5 to maximum 15 L/minute	Air Flow: 15 ltr/min		
		Median Mass Aerodynamic Diameter (MMAD) of particles 0.5 to 4 um	MMAD (Mass Median Aerodynamic Diameter) 2.11 um		
		Operating temperature range 5 to 50C	0-50C Approx.		
		Operating relative humidity range up to 65%	up to 65% Approx.		
		Compressor requires no maintenance and delivers oil-free flow	Oil-free flow mechanism		
		Device, with carry handle, is provided with accessory storage compartment	Provided with handle and accessory storage compartment		

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



		Power supply: A 220V-50Hz mono-phase electrical source with line connection European or SCHUKO plug	230 V - 50 Hz.		
		Power consumption, approximately 80W	80 watts Approx		

1	2	3	4	5	6
		Supplied with:			
		1 x Nebulizer atomiser body piece (dome)	Provided		
		1 x Reusable mouth piece, paediatric size (fitting atomiser body piece)	Provided		
		1 x Reusable mouth piece, adult size (fitting atomiser body piece)	Provided		
		2 x Air delivery tubing, diameter approximately 6/9mm (inner/outer), length approximately 1m	Provided		
		2 x Dosage cup	Provided		
		1 x Reusable mask, size paediatric	Provided		
		1 x Reusable mask, size adult	Provided		
		5 x Spare inlet filters	Provided		
		5 x Spare particle bacterial filters	Provided		
		1 x Set of spare fuses	Provided		
		1 x Instructions for assembly, use and maintenance in English language	Provided		
02-LISB	Lights, Surgical, mobile, battery	Mobile examination light with sturdy construction and easily moveable.			
		Shall have heavy base with 5 swivelling casters	Mounted on plastic base with 5 castors		
		Low centre of gravity for optimal stability and reach.	Lamp position can be adjusted conveniently by the flexible arm and hand grip on the lamp housing.		
		Shall be single head LED light.	Single head LED Light		
		LED shall have life time more than 20,000 hours of operation.	50,000 h		
		Field-of-view diameter, approximately. 0.15m.	0.15 m Approx		
		Homogeneous illumination across entire field-of-view, approx. 60,000 lux (at 0.5m).	60,000 lux		

# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

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		Colour temperature, approximately: 4500K.	N/A		
		Light head mounted on spring loaded articulating arm, height approx. 1.60m.	articulating arm, height approx. 1.60m.		

1	2	3	4	5	6
		On/off switch incorporated in base or spring loaded articulating arm.	Intensity Control and ON/OFF Switch box		
		Dimming control knob	Dimming control knob		
		Double wall lamp head housing ensure low surface temperature.	N/A		
		Anti Shatter screen fitted to the front of the lamp housing.	N/A		
		Accessories, spares parts			
		· 1 x spare set of fuses.	Supplied with Set of fuses.		
		· 1 x spare of LED Lamp.	Supplied with LED Lamp.		
		Power supply			
		Input power supply: 220/240 V AC , 50Hz single phase schuko plug	Operates on 220/240V. Supplied with 2 pin plug.		
		Reversible overload and short circuit protection	N/A		
02-SSUG	Scanning System, Ultrasonic, General Purpose	High performance ultrasound scanner			
		System integrates scanner, 2 probes, matching trolley and video-printer	Combatale with scanner, 2 probes, matching trolley and video- printer		
		Compact and lightweight, easy to transport and position	Outstanding portable model, compact and streamlined design, Light-weight 7.5kg		
		Alphanumeric keyboard with trackball and time gain control (TCG)	Backlit Keyboard, trackball and time gain control (TCG)		
		Piezoelectric probes, electronically scanned: convex and linear	electronically scanned: convex and linear		
		Imaging display modes: B, dual B, M, B and M	B, 2B, B/M, M, 4B		
		Adjustable field-of-view, 6 level zoom			



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

		Imaging technologies: dynamic frequency imaging, multi-stage focusing, aperture control	N/A		
		Depth range selection: convex sector image and linear image, 3 steps	Max. Scanning Depth: 110mm		
		Image orientation: lateral and vertical inversion (in B mode)	Imaging function: B zoom		



ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



	Freeze function with storage of approximately 25 images	Auto-freezing function	
	Self-test is performed each time the machine is switched on	N/A	
	System reports, with audio-visual alert on: operational status and malfunctions	operational status and malfunctions	
	Measurements and analysis:		
	Calibre control: trackball	trackball	
	B-mode image: distance, area and circumference by ellipse and trace	distance, area and circumference by ellipse and trace	
	method, volume, ratio, gestational age, foetal weight, angle	method, volume, ratio, gestational age, foetal weight, angle	
	Gestational table: user programmable	N/A	
	M-mode: velocity, time interval, depth, heart rate, LV function	velocity, time interval, depth, heart rate, LV function	
	Alpha-numerics & graphics:		
	Text annotations and body markers	Text annotations and body markers	
	Automatic display of: date and time, focal point setting, image orientation indicator, image scrolled position, distance scale mark,	date and time, focal point setting, image	
	M-mode time mark, grey scale for calibration	time mark, grey scale for calibration	
	Automatic display adjustment for settings: gain, near gain, far gain, frequency probe, puncture guide line	gain, near gain, far gain	
	High resolution B/W monitor, approximately 25cm diagonal (across), equals to 10 inch, fit with reflection filter	12.1-inch high resolution medical LED Monitor with with 90 degrees rotation	
	Image grey scale: 256 levels	256 levels	
	Video output: 625 lines/frame	625 lines/frame	

# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		Two transducer ports leave 2 probes permanently available, electronic switch between probes	Two activated transducer		
		Data communication interface: RS232, BNC, IEEE, USB or equivalent	Support USB import and		
		Power supply: 220V/50Hz	220/50HZ		
		Power consumption, system approximately: 1000W	N/A		
		Supplied with:			
		1 x Convex abdominal probe, frequency range: 2.5/3.5/5.0MHz	Provided		
		1 x Convex trans-vaginal probe, frequency range: 4.5/6.5/8.0MHz	Provided		
		2 x Bottle of ultrasound gel, approximately 350ml	Provided		
		1 x Set of spare fuses	Provided		
		1 x Plastic protective dustcover	Provided		
		1 x Instructions for assembly, use and maintenance in English language	Provided		
		Supplied with:			
		1 x Digital B/W video printer with data connection cable to ultrasound scanner:	Provided		
		Thermal printing head			
		Resolution, approx.: 400dpi	400dpi		
		Grey level gradations: 256	256		
		1 x Printer head cleaning sheet	Provided		
		1 x Set 10 video printer paper rolls, length approx. 20m	Provided		
		1 x Instructions for assembly, use and maintenance in English language	Provided		
		Trolley	Provided		



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



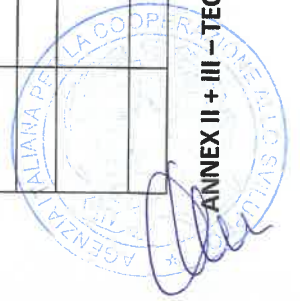
Item number	Item Name	Specifications required	Specifications Offered	Notes, remarks, ref to documentation
02-UDE	DENTAL UNIT	<p>Dental Chair with Compressor.</p> <p>(Oil-less, 24ltr air tank capacity ca, robust construction.</p> <p>Electric driven chair (Preferable)</p> <p>High density foam rubber upholstery</p> <p>Auto zero position with at least four programmable positions</p> <p>Up/down backrest</p> <p>Built in safety switches</p> <p>Multi-function foot-switch</p> <p>Low heat halogen light with removable handle for sterilization</p> <p>Two dental stools, 5 castors, resolvable, height adjustable with backrest</p> <p>The Dentist element is to have fiber optic light built in the handsets, and to feature;</p> <p>High speed turbine, &gt; 200,000 rpm with quick coupling</p> <p>Low speed micro-motor with two hand pieces, contra angle 1:1, straight 1:1</p> <p>High power ultrasonic scalar, regulated</p> <p>Three way water and air syringe</p> <p>Curing light</p> <p>Instrument tray</p> <p>Built in x-ray light viewer</p> <p>The assistant element is to feature:</p> <p>Assistant control key switches</p> <p>High volume suction</p> <p>Low volume suction</p> <p>Cup filler</p> <p>Rinsing cuspidor</p> <p>Built in automatic separator to be connected with a dry suction system</p> <p>Automatic disinfection unit</p> <p>Power line : 220 V <math>\pm</math> 20% , 50 Hz.</p>	<p>Oil free compressor,</p> <p>Electric driven chair</p> <p>High density foam rubber upholstery</p> <p>Auto zero Position</p> <p>Up/down backrest</p> <p>Safety switches</p> <p>9 functions foot control</p> <p>Pebble LED cold-light lamp</p> <p>One dental stool with 2 functions</p> <p>N/A</p> <p>Aluminum cast water unit frame.</p> <p>Rotatable ceramic spittoon.</p> <p>Solenoid valve, 1 HVE and 1 SE, 24V water heater.</p> <p>1300ml water purification system.</p> <p>Imported water tube lines, 1 Three-way syringe, Assistant console, Assistant three-way syringe, 1 HVE and 1 SE handle, With assistant Tray</p> <p>220V , 50 Hz</p>	



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

LOT 1 INOX MEDICAL TOOLS					
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1	2	3	4	5	6
10-077	Drum, sterilizing Inox Inox, Large	Drum, st. st., sterilizing , Large size	Large size		
		stainless steel, cylindrical drum	stainless steel, cylindrical drum, with perforated sides and airtight		
		with perforated sides and airtight sliding shutter to cover perforations, hinged lid with lifting handle and lateral eclipses	hinged lid with lifting handle and lateral eclipses (35*36)cm		
10-077	Drum, sterilizing Inox Inox, Medium	size approximately (35*36)cm Drum, st. st., sterilizing , small size	Medium Size		
		stainless steel, cylindrical drum	stainless steel, cylindrical drum, with perforated sides and airtight		
		with perforated sides and airtight sliding shutter to cover perforations, hinged lid with lifting handle and lateral eclipses,			
		size approximately (15*36)cm Drum, st. st., sterilizing , small size	hinged lid with lifting handle and lateral eclipses (25*36)cm		
10-077	Drum, sterilizing Inox, Small	stainless steel, cylindrical drum	small size		
		with perforated sides and airtight sliding shutter to cover perforations, hinged lid with lifting handle and lateral eclipses,	stainless steel, cylindrical drum, with perforated sides and airtight		
		lateral eclipses,	hinged lid with lifting handle and lateral eclipses		
		size approximately (15*36)cm Drum, st. st., sterilizing , small size	(25*36)cm		
		stainless steel, cylindrical drum	small size		
		with perforated sides and airtight sliding shutter to cover perforations, hinged lid with lifting handle and lateral eclipses,	stainless steel, cylindrical drum, with perforated sides and airtight		
		lateral eclipses,	hinged lid with lifting handle and lateral eclipses		



06-070	Forceps, Desmarres Chalazion	size approximately (15*36)cm	(15*36)cm	
		Stainless steel	Stainless steel	
66	Kidney Dish, Inox, Large, wout/ Lid	Sterilized by autoclave	Autoclave able	
		Kidney Tray	Large	
		Kidney-shaped bowls,	Kidney-shaped	
		Stainless steel kidney bowls 18/10,	Stainless steel	
		Sterilized by autoclave	Autoclave able	
		Size 20 x 8 x 4.5 cm.	20 x 8 x 4.5 cm.Approx	



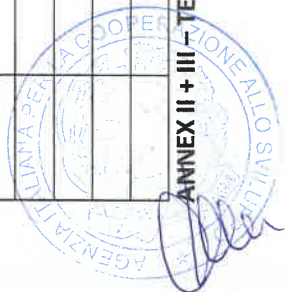
ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
67	Kidney Dish, Inox, Medium, without Lid	Kidney Tray	Medium		
		Kidney-shaped bowls,	Kidney-shaped		
		Stainless steel kidney bowls 18/10,	Stainless steel		
		Sterilized by autoclave	Autoclave able		
		Size 17 x 8 x 4.5 cm.	17 x 8 x 4.5 cm. Approx		
68	Kidney Dish, Inox, Small, without Lid	Kidney Tray	Small		
		Kidney-shaped bowls,	Kidney-shaped		
		Stainless steel kidney bowls 18/10,	Stainless steel		
		Sterilized by autoclave	Autoclave able		
		Size 10 x 6 x 4.5 cm.	10 x 6 x 4.5 cm. Approx		
71	Retractor, Vaginal, Sim	Sim retractor, vaginal, set of 3 sizes, basic examination, suitable for EMOC service	suitable for EMOC service		
		• 1 x Sims vaginal speculum, small,	Small vaginal speculum		
		• 1 x Sims vaginal speculum, medium,	Medium vaginal speculum		
		• 1 x Sims vaginal speculum, large,	Large vaginal speculum		
		Stainless steel medical grade	Stainless steel		
72	Set, Delivery	This set should be considered part of any minimal investment in a health facility with obstetrical activities. A fully functional obstetrical environment as well as a professional midwife must be available.	Set easy to use by midwives		
		The set contains two Kocher forceps to clamp the umbilical cord, (time needed to tie up),	two Kocher forceps		
		and a pair of "episiotomy scissors"	pair of "episiotomy scissors		
		and a pair of scissors to cut the umbilical cord.	pair of scissors to cut the umbilical cord.		
		Most of episiotomies are performed at the last moment, so the set must always be available and ready for use.			



1	2	3	4	5	6
		For suturing the episiotomy, use: SET, SUTURE.			
		Kit contents:			
		1 x Scissors, Mayo, 140mm, cvd, b/b	140mm Scissors, Mayo		
		1 x Scissors, gyneco, 200mm, cvd, b/b	200mm Scissors, gyneco		
		2 x Forceps, artery, Kocher, 140mm, str	140mm, Forceps, artery, Kocher,		
69	Set, Dental, Basic	hand piece			
		High-Speed Handpiece	High-Speed Handpiece		
		Low-Speed Handpiece	Low-Speed Handpiece		
		Ball-Bearing Contra Angle Assembly (Latch)	Ball-Bearing Contra Angle Assembly (Latch)		
		Prophy Contra Angle Head Assembly	Prophy Contra Angle Head Assembly		
		Contra Angle Sheath	Contra Angle Sheath		
		Straight Attachment	Straight Attachment		
		Spray and Clean Handpiece Lubricant	Hand piece of 500ml i-dental		
		Laryngeal Mirror	Laryngeal Mirror		
		Dental Mirror #5 for Exam Kits	Dental Mirror		
		Mirror Handles for Exam Kits	Mirror Handles for Exam Kits		
		Forceps Collins seizing	Forceps Collins seizing		
		Dental Scaler, double, hand instruments	Dental Scaler, double, hand instruments		
		Plaster Spatula, single, wood handle	Plaster Spatula, single, wood handle		
		Plaster Spatula, double	Plaster Spatula, double		
		Gum Scissors	Gum Scissors		
		Gum Scissors fox, serrated blade 13 cm	Gum Scissors fox, serrated blade 13 cm		
		Scissors, Iris 4 1/2" Straight, Economy	Scissors, Iris 4 1/2" Straight, Economy		
		Wax Knife, double 3 size	Wax Knife, double 3 size		
		Cement Spatulas #24	Cement Spatulas #24		
		Aspirating Syringe CW Type	Aspirating Syringe CW		
		Composite Instruments, Set of 3	Composite Instruments, Set of 3		
		Rubber Dam Punch	Rubber Dam Punch		



1	2	3	4	5	6
		Rubber Dam Clamps, Starter Kit	Rubber Dam Clamps, Starter Kit		
		Plaster Double Spatula	Plaster Double Spatula		
70	Set, Dressing	Dressing Set			
		Forceps artery, approx. 12.5-14cm, 1 x 2 teeth, box joint, SS, e.g. Kocher straight .... 1	Forceps artery, approx. 12.5-14cm, 1 x 2 teeth, box joint, SS, e.g. Kocher straight: Qty:1		
		Forceps, dissecting, Straight, 1x2 teeth, 130 mm .... 2	Forceps, dissecting, Straight, 1x2 teeth, 130 mm, Qty:2		
		Forceps, sinus, 180mm .... 1	Forceps, sinus, 180mm, Qty:1		
		Forceps, Dissecting, Straight, Plain, spring type, rounded tips, SS 115 mm .... 2	Forceps, Dissecting, Straight, Plain, spring type, rounded tips, SS115 mm, Qty:2		
		Forceps, Sponge holding, straight, 200mm .... 1	Forceps, Sponge holding, straight, 200mm, Qty: 1		
		Scissors, Mayo, Straight, 150mm .... 1	Scissors, Mayo, Straight, 150mm .... 1		
		Scissors, dressing, Straight, 165mm .... 1	Scissors, dressing, Straight, 165mm, Qty:1		
		Scissors, ligature, Spencer, 110mm ..... 1	Scissors, ligature, Spencer, 110mm, Qty: 1		
		Bowls, lotion, s/s, 5 liter .... 1	Bowls, lotion, s/s, 5 liters Qty:1		
		Bowls, lotion, s/s, 0.2 liter .... 2	Bowls, lotion, s/s, 0.2 liter Qty: 2		
		Kidney Dish, 24cm .... 1	Kidney Dish, 24cm Qty: 1		
		Instrument container, s/s with cover, 300x200x50mm .... 1	Instrument container, s/s with cover, 300x200x50mm Qty: 1		
06-070	Set, Ear Syringe	• Ear syringe - stainless steel, 4oz capacity 100 ml, 2nozzles of varying sizes and plate.	stainless steel , 4oz capacity 100 ml, 2nozzles of varying sizes and plate.		
		• Ear syringe piston ring to be renewal and should not have shape edges.	Without shaped edges		

06-030	Set, Gynecological examination	• 1 x Sponge holding forceps, 25 cm	1 x Sponge holding forceps, 25 cm	
		• 2 x Female catheters - straight and curved - each	2 x Female catheters - straight and curved - each	
		• 2 x Tissue forceps, teeh 1x2 - 25 cm	2 x Tissue forceps, teeh 25 cm	
		• 2 x Dressing forceps, thumb standard tip, 25 cm	2 x Dressing forceps, thumb standard tip, 25 cm	
06-036	Set, Small Fragment/foreign Bodies	Stainless steel	Stainless steel	
		Varios sizes	Varios sizes	
		Sterilized by autoclave	Autoclave able	
06-059	Tray, Instrument, Inox, small	approx. 230 x 130 x 50 mm	approx. 230 x 130 x 50 mm	
		Rectangular with rounded corners.	Rectangular with rounded corners.	
		Stainless steel	Stainless steel	
		Smooth surface	Smooth surface	
06-059	Tray, Instrument, Inox, Large	Examination tray, approximately 32x22x0,5cm, without lid, stainless steel.	Examination tray, approximately 32x22x0,5cm, without lid, stainless steel.	
		TRAY, instrument, 230 x 130 x 50 mm, stainless steel	TRAY, instrument, 230 x 130 x 50 mm, stainless steel	
		General information	General information	
		To carry miscellaneous objects: surgical instruments, dressing materials, injection materials, etc.	To carry miscellaneous objects: surgical instruments, dressing materials, injection materials, etc.	
		Specifications: Rectangular tray with rounded corners.	Specifications: Rectangular tray with rounded corners.	
		Stainless steel	Stainless steel	
		Smooth surface	Smooth surface	
		Recommended dimensions:	Recommended dimensions:	
		- Length: 30cm	Length: 30cm	
		- Width: 15 - 22cm	Width: 15 - 22cm	
		- Height: 0,5cm	Height: 0,5cm	
1	2	3	4	5
		Non-sterile	Non-sterile	

# ANNEX II + III - TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
LOT 2	<b>LABORATORY EQUIPMENT</b>				
03-AMA	Amalgamator, dental				
		Rotational capsule mixer with centrifuge function.	Rotational capsule mixer		
		Blending speed: not less than 2500 rpm.	not less than 2500 rpm.		
		Pre-set and programmable timer and procedures, possibility to exclude the centrifugation.	Pre-set and programmable timer and procedures		
		Compatible with amalgam, GIC and other pre-dosed dental materials.	Compatible with amalgam, GIC and other pre-dosed dental materials.		
		A 220V, 50Hz mono-phase electrical source with line connection plug european or shuko type.	A 220V, 50Hz		
03-ANCL	<b>Analyzer, Clinical Chemistry</b>	Open system, semi-automatic Clinical chemistry analyzers capable to determine the concentration of metabolites, electrolytes, proteins, and drugs in samples of serum, plasma, urine and other body fluids. Discrete analyzer method to prevent/reduce the sample-to-sample interaction and contamination that can occur with continuous-flow instruments			
		UMDNS: 15-551	N/A		
		CE MARK (MDD): Yes	CE Marked		
		CONFIGURATION : Bench-top	Bench-top		
		Batch process determination of routine parameters	21 parameters		
		Fits with 20 reagent positions of 50ml	Sample volume is only 9µL		
		Throughput up to 60 tests per hour	60 samples per hour		
		Pre-programmed and user programmable routines and profiles	LAN Port supports HL7 protocol Support bi-directional LIS		
		With self-test capability			
		Indication of self-test failures and assistance messages	N/A		

ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

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1	2	3	4	5	6
		Temperature: 3 thermal zones	15°C~30°C		
		Incubation 1 minute to 3 hours			
		Preheated reagent transfer arm			
		Built-in rinsing and waste reservoirs			
		Analysis: end point, differential, fixed time, kinetic, multi standard			
		Curve of calibration: 8 points, linear and logarithmic	Original QC, calibrators and reagents		
		Calculation: linear, exponential and polygon			
		Optical system: interference filter, mono and dichromatic			
		Filters up to 8 per wheel with automatic selection			
		Source: LED			
		Absorption: -0.200 to 2.500 DO, <0.0001 D.O.>	N/A		
		Spectrum: 300 to 700nm	N/A		
		Accuracy: CV<1% at 2.0 DO	N/A		
		Sample ID, date and time are reported with test results			
		Supplied complete with dedicated data analysis and data management software on external PC	CBC+3-DIFF, 21 parameters+3Histograms		
		Results reportable via external inkjet printer			
		Casing, corrosion proof material such as plastic or epoxy coated steel	corrosion proof material		
		Power requirements: 220V/50Hz, with voltage surge protection	(100V-240V)±10% ≤180VA (50Hz/60Hz) ±1H		
		Power consumption: approximately 400W			

03- ANELC	Analyzer, Electrolytes	Completely automated, microprocessor-controlled analyzer for electrolytes			
		Technology used: advanced ISE (Ion Selective Electrode)			
		Samples: whole blood, serum, plasma or urine	Direct measurement with ion selective electrode (ISE).		
			Whole blood, serum, plasma, CSF and diluted urine		



ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		Sample size Approx: 100 µL Whole Blood, Serum, Plasma, 60 µL capillary or 400 µL diluted (1:10) Urine	130 micro liter, for diluted (1:5) urine 500 micro liter.		
		Probe wiping: Automatic	Automatic sampling, probe wiping		
		Calibration: Automatic or on-demand	Calibration automatic		
		Printer: Automatic result printing	128x64 graphics display with Y/N numeric keypad, 24 column thermal printer, USB port		
		Low running cost. Compact. easy and safe to use	Low running cost. Compact. easy and safe to use		
		Measurement Combination Options:			
		• Na <sup>+</sup> /K <sup>+</sup>	Na <sup>+</sup> /K <sup>+</sup>		
		• Na <sup>+</sup> /K <sup>+</sup> /Cl <sup>-</sup> Lithium Na <sup>+</sup> /K <sup>+</sup> /Li <sup>+</sup>	Na <sup>+</sup> /K <sup>+</sup> /Cl <sup>-</sup> Lithium Na <sup>+</sup> /K <sup>+</sup> /Li <sup>+</sup>		
03-ANGL	Analyzer, Glucose, Whole Blood	Automated compact hand-held point-of-care device for measuring glucose in capillary whole blood			
		Technology: amperometry, under potentiostatic condition,			
		electro-chemical (Glucose oxidase)	electro-chemical		
		Direct current reading through inserted micro-cuvette, containing all required dried reagents pre-applied	Direct current reading through inserted micro-cuvette		
		Removable micro-cuvette holder, allows easy cleaning	easy cleaning		
		Factory calibrated and built-in auto-self-test, each time the device is switched-on	N/A		
		Latest measurement shows when switched-on	Latest measurement shows when switched-on		
		No pipetting, sample collected directly from skin surface into single-use micro-cuvette	No pipetting, done by only 0.6µL of blood.		



### ANNEX II - III - TECHNICAL SPECIFICATIONS AND OFFER

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		Measuring range, approximately 0 to 500mg/dL	Measuring range: 10 mg/dL – 600 mg/Dl, 0.6 mmol/L – 33.3 mmol/L		
		Reading time, approximately 10 sec	Fast results in 5 secs		

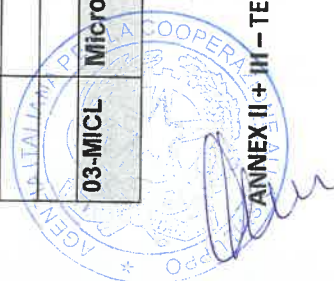


# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
		Accuracy, approximately CV <2% (Coefficient of Variation)	approximately CV <2%		
		Display informs: glucose reading [mg/dL or mmol/L], patient ID, reading errors, systems errors, battery status	Measuring range: g/DI, mmol/L, errors, battery status		
		Language display, user selectable: English, French and Spanish	user selectable		
		Built-in memory, storing approx. 500 measurements	500 total results, plus 20 control tests		
		Interfaces: USB or equivalent to printer and/or computer.	USB		
		If required, manufacturer's software should be ordered separately.	N/A		
		Built-in rechargeable or user-replaceable battery, autonomy, approximately 500 measurements, 3V type CR2032	Battery: 1 battery, 3V type 2032, 2,000 measurements		
		Power consumption, approximately 5W	Approx 5W		
03-ANH	<b>Analyzer, Hormonal test</b>	Analysers for Hormones with cartridge			
		QC/Calibration	QC Calibration		
		System check cartridge	System check cartridge		
		Internal & external controls	Internal & external controls		
		Interface:			
		Built-in thermal printer	Built-in thermal printer		
		USB port / SD card slot	USB port / Ethernet / SD card slot		
		Memory:			
		1,000 patient results	1,000 patient results		
		1,000 QC results	1,000 QC results		
		100 User IDs	100 User IDs		
		Battery and AC	100 – 240V AC, 50-60Hz Internal & external battery		

1	2	3	4	5	6
03-CET	Centrifuge, Tabletop	Low-speed, tabletop centrifuges to be used for routine separation of sample volumes. The centrifuge has to be easy to use, with low level vibration and level of noise, digital touchpad displays to set time and rpm, robust construction with case resistant to various chemical and physical agent. With Alarms and lock.			
		UMDNS: [18-266]	N/A		
		CE MARK (MDD): yes	CE Marked		
		CONFIGURATION: Tabletop Centrifuges	Tabletop Centrifuges		
		ROTATIONAL SPEED :			
		Max rpm : > 10.000	<8000r/min		
		Max RCF, g : > 6000	1430xg		
		NUMBER OF ROTORS : 1	One		
		VARIABLE ANGLE : Yes	variable angle		
		ANGLE RANGE: Between 0 and 90 deg	N/A		
		MAX CAPACITY, samples : 16 tubes of 50 ml	20(ml)×6		
		DISPLAY TYPE : Digital			
		TIMER : Yes	With timer		
		Range, min : 0 to ≥60	0-60 Min		
		Settings : 1 min increments	N/A		
		BRAKING, type : Electric preferred	Electric		
		ADJUSTMENT & CONTROLS : Manual Touchpad			
		LID INTERLOCK : Yes	Lid interlock		
		BRUSHLESS : Yes	Brushless		
		ALERT INDICATORS : audible; Imbalance, lid open, error codes, rotor recognition, end of run	ALERT INDICATORS : audible; Imbalance, lid open, error codes, rotor recognition, end of run		
		NOISE LEVEL, dB : < 60	N/A		
		WARRANTY: 12 months warranty period	One year		
03-MICL	Microscope, optic, light	Microscope, binocular, 4 objectives	Microscope, binocular, 4 objectives		



1	2	3	4	5	6
		Binocular, with built-in (6V 10W halogen lamp or 6V 20W)	halogen lamp 6V 20W		
		light source, powered by mains electricity (220- 240V),	220- 240V		
		complete with: pair of 10X widefield eyepieces,	10X wide field eyepieces		
		pair of 7X or 8X eyepieces (for use with 100X oil immersion objective),	7X or 8X eyepieces (for use with 100X oil immersion objective),		
		objectives 10X, 40X and 100X (oil),	4X, 10X, 40X (S), 100X (S, OIL)		
		precentred Abbe condenser,			
		filter holder,	filter holder,		
		adjustable for height,	adjustable for height,		
		mechanical stage with slide holder, spring arm, and movement controls,	slide holder, spring arm, and movement controls,		
		condenser focus control,	condenser focus control with Iris Diaphragm		
		course and fine focusing and focus tension control,	course and fine focusing and focus tension control		
		lamp brightness control, on and off switch, mirror	lamp brightness control, on and off switch		
		(if required can screw into base for use with daylight).			
03-PIPS	Pipette, Automatic, Set	Pipette, repeating, 2.5ml and 5.0ml			
		Automatic system for pipetting and serial distribution of precise variable volumes	0 microL and 10 microL for distribution of precise variable volumes		
		Material: polypropylene	polypropylene		
		Volume adjuster lever 5 positions (volumes)	Volume adjuster lever		
		Mechanical bolt for syringe/tip	Mechanical bolt		
		Filling plunger	Filling plunger		
		Distribution lever	Distribution lever		
		Non sterile	Non sterile		

ANNEX II + III - TECHNICAL SPECIFICATIONS AND OFFER



03-REF4	Refrigerator, drugs/reagents, 170 L	Refrigerator for Lab reagents (6 Feet=170 ltr) Basic model			
		REFRIGERATOR 170 L / 6.0 CU.FT. CAP	REFRIGERATOR 170 L / 6.0 CU.FT. CAP		

1	2	3	4	5	6
	Laboratory frestanding Refrigerator	Laboratory frestanding Refrigerator	Laboratory frestanding Refrigerator		
	Alarm with remote hook-up provided	Alarm with remote hook-up provided	Alarm with remote hook-up provided		
	Forced Air Ventilation	Forced Air Ventilation	Forced Air Ventilation		
	Inner part is white with shelf guides	Inner part is white with shelf guides	Inner part is white with shelf guides		
	Insulation to be of high grade material (insulation to be specified)	Insulation to be of high grade material (insulation to be specified)	Insulation to be of high grade material (insulation to be specified)		
	With one lockable air tight front tempered glass door	With one lockable air tight front tempered glass door	With one lockable air tight front tempered glass door		
	Capacity approx 170 liters	Capacity approx 170 liters	Capacity approx 170 liters		
	Temperature Range 1°C to 7°C	Temperature Range 1°C to 7°C	Temperature Range 1°C to 7°C		
	Dimensions: 610 x 610 x 860 mm	Dimensions: 610 x 610 x 860 mm	Dimensions: 610 x 610 x 860 mm		
	Battery operated alarm system will emit an audible and visual signal when there is a mechanical or electrical failure.	Battery operated alarm system will emit an audible and visual signal when there is a mechanical or electrical failure.	Battery operated alarm system will emit an audible and visual signal when there is a mechanical or electrical failure.		
	Over and under temperature alarm setting	Over and under temperature alarm setting	Over and under temperature alarm setting		
	Power Supply: Electric mains 220ACV., 50Hz	Power Supply: Electric mains 220ACV., 50Hz	Power Supply: Electric mains 220ACV., 50Hz		
	Automatic Voltage Switch, protection for over and under voltage including 1-3 minute delay for reconnection	Automatic Voltage Switch, protection for over and under voltage including 1-3 minute delay for reconnection	Automatic Voltage Switch, protection for over and under voltage including 1-3 minute delay for reconnection		



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER

03-FRT	Temperature, Indicator, Freezer Tag w Alarm	Freeze-tag® - Electronic temperature monitoring of the freezing point (0°C)		
		OK - Display Alarm - Display	Alarm system	
		long shelf life	Long shelf life	
		Simple handling	Simple handling	
03-ThDL	Thermometer, Data Logger, w/ display	Sensor measures temperature over the range of -9.9 to 30 °C	-50°C to +300°C	
		with internal battery	Internal Battery	



ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER



1	2	3	4	5	6
03-WSAB	Weighting System, Analytical Balance	Screen display			
		0.0001 Gm capacity	0.0001 Gm capacity		
		Uni block Transducer	Uni block Transducer		
		220-240 V	220-240 V		
		50/60 hz	50/60 hz		
31	Water Puryfing, Reverse Osmosis	Reverse Osmosis purification system for water			
		18 liter	10 liter		
		stainless steel storage tank	stainless steel storage tank		
		Connects easily to any source water line for automatic filling	Connects easily to any source water line for automatic filling		
		Automatic high level control	Automatic high level control		
		220-240 V	220-240 V		



# ANNEX II + III – TECHNICAL SPECIFICATIONS AND OFFER





# Medical Bed

- **Description:**

- All metal components are pre-treated and epoxy powder coated.
- Back Rest section can be raised by a hand crank.
- Hand crank can be folded when not in use to allow free movement around the bed.
- Head and Foot bow sections of the bed are of unequal height with vertical supports on the head bow.

- **Features:**

- Overall size (L\*W\*H): 2150\*950\*450-700mm.
- Frame: steel, treated by sand-blasting and electrostatic powder-coating
- Bedboard: steel, 4-part
- Headboard/footboard: ABS, Detachable
- Side rail: Detachable, 6-rank al-alloy
- Castors: four silent wheels with cross brakes.
- Weight load: 250kg



## Medical Bed



## **Bedside Cabinet**

### **Features:**

- Country of origin: China.
- ABS bedside Cabinet.
- Dimensions: L480XW470XH780.
- Two drawres with different sizes.



## Manual Hospital Blood Collection Chair Blood Donation Chair



### Features:

- \* Manual or electric control type for your choice.
- \* Made of high-strength fiber material and poly-layer paint, more durable, easy to clean;
- \* Designed with people-oriented idea, to meet the donor's sense of security and comfort, to alleviate the psychological pressure, to ensure an easier and enjoyable process.
- \* Mattress using a high-quality medical polyurethane foam molding leather, easy for clean and maintenance, anti-static and anti-fouling properties superior to other similar products.



**Product Details:**

Seat section size(mm)	1800 × 580
Seat section height(mm)	500
Backing board turning angle	20 ° -70 °
Chair backward and forward tilt angle	8° -15 °
Leg plate turning angle	20 ° -75 °
Handrail swing out angle	0 ° -30°
Handrail's moving distance	100mm
Handrail board size	450x160mm
Lifting speed	No
Power supply	No
Reading lamp power	No
Standard accessories	Hand operation, handrail rack, small table
Optional accessories	LED hose-type reading lamp; movable assistant desk; soft velvet cover
Load capacity	160kg
Packing Size(W*D*H)	1300×780×1330mm



# Couch, Examination

## Description

- 2 section Examination Table mounted on a stainless steel tubular pipe section frame-work.
- Fitted with 75mm fixed mattress covered in washable vinyl fabric.
- Back-rest section adjustable by rod mechanism.
- Legs fitted with PVC / rubber stumps.

## Dimensions:

- Body section: Approx. 1250 x 600 x 850mm (L x W x H).
- Back-rest section: Approx. 500 x 600mm (L x W).



## Pukang Delivery Bed-CHINA



Name	Type C1 Obstetric examination bed
Model	B-42
Size	1680mm(L)*600mm(W)*800mm(H)
Main features	<ol style="list-style-type: none"><li>1. Stainless steel frame, high quality polyurethane mattress;</li><li>2. Three sections, back rest (adjusted by gas spring ), knee rest function (controlled by gear mechanic system);</li><li>3. Double leg supporting device, with one S.S. bowl under the table</li><li>4. Base with foot pedal, foot with anti-noise rubber</li><li>5. Freight saving knock-down construction.</li></ol>



## Folding Ward Screen 4 Sections Hospital Screen



### Description

Overall size: 500\*1800mm per section(including 3/4/5sections)

Material:

- Imported macromolecule compounded material,anti-bacteria
- Stainless Steel,Medical Cotton

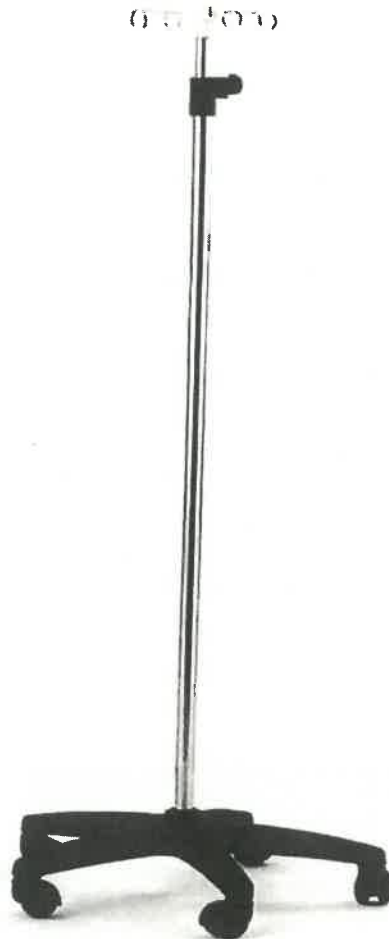
<b>Product Name</b>	BS - 674 Folding Ward Screen 4 Sections Hospital Screen
<b>Item No.</b>	BS-674
<b>Dimensions</b>	Each section 500*1800mm
<b>Package</b>	1PC/CTN
<b>Carton Size</b>	520*180*1800mm
<b>CBM/per ctn</b>	0.168m <sup>3</sup>
<b>Weight/per Ctn</b>	N.W: 25KGS G.W:26KGS
<b>Guarantee</b>	Warranty:1 year
<b>Certification</b>	ISO13485:2003,CE,FDA



# Intravenous stand

## Description

- Height is adjustable by telescopic mechanism and can be locked into position by a hand wheel.
- A spring loaded in the pipe helps absorb any sudden impact of the hooks thereby preventing any damage or breakage to the suspended bottle.
- All Stands are fitted with 50mm swivel castors for easy mobility.
- 2 to 4 hooks.



## **Operating Room Trolley 50 x 80**

### **Description:**

- Constructed from S.S. tubular pipe frame-work and S.S. shelves.
- Guard rails fitted on shelves.
- Dimensions: 50 X 80 cm.
- Mounted on 4 x 100mm swivel castors.
- 2 Shelves.



**2 shelf**



## Operating Room Trolley

### **Description:**

- Constructed from S.S. tubular pipe frame-work and S.S. shelves.
- Guard rails fitted on shelves.
- Dimensions: 50 X 100 cm.
- Mounted on 4 x 150 mm swivel castors.
- 2 Shelves.



# Reflex Hammer for Examination



## Product Details:

- Handle material: stainless steel.
- Taylor percussion hammer blue rubber.
- Mead mallet and triangular rubber head.
- Used to test joint reflexes or bone fractures in the joints.
- 7.5-inch chrome handle, accurately and effectively elicits muscle stretch. reflexes, superficial or cutaneous reflexes, as well as plantar and abdominal reflexes, with less effort and greater patient comfort.



## Oxygen Cylinder



### Product Description:

- **Manufacturer/Country of Origin: T.M SHARIF/CHINA.**
- **40L Oxygen cylinder.**
- **Material: 37MN Steel.**
- **Color: White.**
- **Pressure: 150BAR/TESTING.**
- **Pressure:250BAR with Cap and valve QF-6A (FEMALE G5/8).**



## Oxygen Regulator

**Medical oxygen regulator** is used for oxygen breathing in hospital or home and meant to be connected on high pressure medical gas cylinder to decrease the outlet pressure and supply a stable low pressure for use. The pressure gauge indicates the pressure level of the gas cylinder.



### Specifications:

- Input pressure: 15Mpa/23Mpa.
- Output pressure: 0.2-0.3Mpa.
- Dimension: 49.5×40×18cm.
- Automatic discharge pressure of the safety valve: 0.35+<sub>-</sub>0.05Mpa.
- The range of flow: 0-10/15L/min.
- Main-body: brass.
- Structure: PISTON type.
- Pre-set outlet pressure: 2-3 bar.
- Humidifier bottle: 150ML.
- G.W./N.W.: 12/11KGS.



# Respirometer

## Breathing Exerciser



CE 0434

### Respirometer®

GS-6018

- Innovative system to exercise respiration through inspiration.
- Specially designed with 3 stage chambers to provide more efficient exercise to patient at a step up basis.
- Device is composed of base and central part divided into three chambers containing three small spheres of different size and colour.
- Three spheres rise proportionately to the inspiration exerted.
- Innovative design. It can be dismantled for cleaning and disinfection.
- Individually packed in a box/Master box of 20.

Unit consists of

- Transparent main body.
- Base.
- Small spheres of red, yellow and blue colour.
- Connecting tube with mouth piece.



# ALPK 2 Mercury Sphygmomanometer



The ALPK2 mercury sphygmomanometer consists of an inflatable cuff, a measuring unit (mercury manometer) and a manually operated inflation mechanism with lamp and valve. It is usually used with a stethoscope.

## **Product Details:**

- Die-cast aluminum frame (brown), 5mm inner diameter of glass tube.
- Pressure gauge: 0-300 mmHg.
- Accuracy:  $\pm 3$  mmHg.
- Cotton standard cuff: 54\*14.5cm.
- Standard 2-tube latex bladder: 22\*12cm.
- Short tube with plastic connector: 25cm.
- Air system: Velcro cuff with latex bag.
- pump with air release valve
- Weight: 1.18 kg
- Dimensions: 35 cm long, 11 cm wide, 5 cm high.



## 3M™ Littmann® Stethoscopes



**3M**





## Classic Stethoscopes

### 3M™ Littmann® Classic II S.E. Stethoscope

Featuring a two-sided chestpiece, the Littmann® Classic II S.E. Stethoscope offers high acoustic sensitivity for superior performance. A tunable diaphragm on one side augments the traditional bell function of the opposite side.

- Traditional bell combined with a tunable diaphragm that conveniently alternates between low- and high-frequency sounds without the need to turn over the chestpiece\*
- Patented 3M™ Littmann® Snap Tight Soft-Sealing Eartips create an excellent acoustic seal and comfortable fit (*available in two sizes*)
- Comfortable angled, anatomically correct headset
- Patient-friendly, nonchill rim and diaphragm
- 16 tube colors available in standard chrome finish (*pictured below*). Additional finishes also available



\* see page 5 for details

<sup>1</sup> Littmann Teaching Stethoscope, 40 inch (2 headsets)

<sup>2</sup> Black Edition – black finish chestpiece and headset



<sup>3</sup> Brass Edition – brass finish chestpiece and headset



<sup>4</sup> Copper Edition – copper finish chestpiece and headset



<sup>5</sup> Rainbow Edition – rainbow finish chestpiece and sunshine gold headset



*Stethoscope pictured is brown in the copper finish.*



Littmann® Classic II S.E. Stethoscope	
Model Numbers by Tube Color	
Black	2138 <sup>1</sup> , 2201, 2218BE <sup>2</sup> , 2201BRS <sup>3</sup>
Burgundy	2211
Navy Blue	2205
Hunter Green	2208
Gray	2203
Chocolate	2820CPR <sup>4</sup>
Pine Green	2818
Ceil Blue	2813
Purple	2209
Raspberry	2210
Caribbean Blue	2206, 2823 <sup>5</sup>
Orange	2812
Seafoam Green	2814
Ocean Blue	2819
Peach	2822
Pearl Pink	2817
Stethoscope Specifications	
Suggested Applications	Physical Assessment, Diagnosis
Performance (1-10+ Scale)	7
Chestpiece	Machined Stainless Steel Two-sided
Binaurals	Single Lumen
Tunable Diaphragm	Yes
Headset Material	Aerospace Alloy
Length	28 in/71 cm
Weight	125 grams
Diaphragm Diameter	1.75 in/4.4 cm
Bell Diameter	1.25 in/3.2 cm
Warranty	3 Years



# Fetal Stethoscope



## Description

- Used by qualified caregiver's, nurses for listening to an unborn baby's heart beat after 20 to 24 weeks of a woman's pregnancy.
- Made from aluminum, anodized.





Measures instantly  
in 1 second



High-accuracy



Multiple uses



High temperature  
alarm



16 sets of  
memories



°C or °F  
Reading



Back light  
display



Automatic shutdown  
features



## Product specification

- Product description : Medical Infrared thermometer (Non-contact)
- Model# : AD801
- Product size : 149mm\*80mm\*40mm
- Measuring mode : body temperature/surface temperature.
- Working condition:10°C- 40°C,
- Accuracy :0 °C~30 °C ≤+/-0.2 °C  
30 °C~45 °C ≤+/-0.1 °C  
45 °C~100 °C ≤+/-0.4 °C
- Data Memory : storage 16 data
- Measuring range : 35°C-43C ( body ),  
0°C-100°C ( surface )
- Measuring distance : 3-5cm
- Power saving mode: : automatically shutdown with approx. 15 seconds without operation.
- Time of measurement : 1 seconds
- Power:DC3V(1.5V\*2AAA)



**HEINE** QUALITY  
MADE IN GERMANY

## HEINE Hand-held Ophthalmic Instruments

For precise diagnostic examination of the eye.

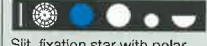
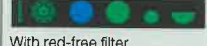


LED HO

LED NOW IN HEINE QUALITY.



# HEINE BETA® 200/BETA® 200S OPHTHALMOSCOPE

For a clear, bright, glare-free image of the fundus – for years to come.

BETA 200	BETA 200S
-35/+40 27 diopter steps	-36/+38 74 single diopter steps
6 apertures:  Slit, fixation star with polar coordinates, cobalt blue filter, large spot, small spot, hemispace  With red-free filter	7 apertures:  Cobalt blue filter, fixation star with polar coordinates, large spot, small spot, pinhole, slit, hemispace  With red-free filter

Dustproof housing

Reduction of reflections thanks to the "Aspherical Optical System" (AOS)\* exclusively from HEINE

Optical components are mounted on a cast aluminum frame


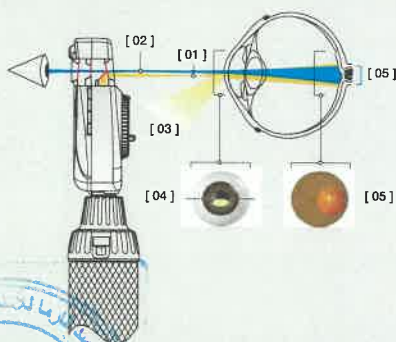
**LED HQ**  
LED NOW IN HEINE QUALITY.

XHL or LED<sup>HQ</sup> illumination for precise illumination and true colour images during funduscopic examinations

Patented, unique, stepless dimming

BETA4 rechargeable handle with latest Li-ion technology

**EN 200 Diagnostic Centre:**  
Instruments located at your fingertips in a space-saving design

## \*Aspherical Optical System" (AOS) exclusively from HEINE

eliminates corneal and iris reflexes to provide large, crisp and glare-free fundus images.

- [01] Flat, elliptical illumination beam produced by HEINE's Aspherical Optical System.
- [02] Observation path.
- [03] Redirected iris and corneal reflexes.
- [04] The elliptical light beam enters through the lower half of the cornea. The illumination beam has been separated from the observation beam (Gullstrand-Principle). All reflexes are diverted away from the observation beam due to the curvature of the reflective cornea. Due to the flat, compressed form of the light beam, a maximum amount of light enters through the pupil.
- [05] Once past the anterior chamber, the light beam opens up dramatically to illuminate a large area of the retina.

For more information to the ophthalmic instruments go to [www.heine.com](http://www.heine.com)



# HEINE BETA® 200 RETINOSCOPE

For a fast, reliable and objective determination of refractive error.



## \*HEINE ParaStop

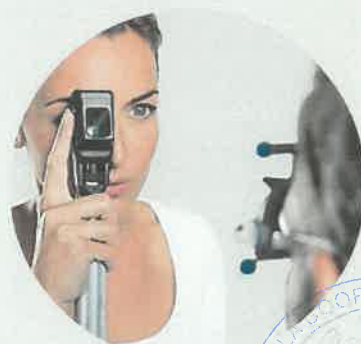
The BETA 200 Retinoscope with ParaStop features the latest multi-coated optics for an exceptionally bright fundus reflex and easier detection of the neutralisation point. ParaStop was developed by HEINE for the easy, precise selection of a parallel illumination beam. ParaStop simplifies and speeds up the precise detection of cylinder axis. ParaStop also simplifies the verification of the cylinder correction after refraction.

## LIGHT THAT SHOWS COLOURS AS THEY ARE

- ✦ **Bright and homogeneous illumination**
- ✦ **Accurate colour rendering index**
- ✦ **Consistent light output and performance** throughout the whole working life
- ✦ **Efficiency** with the BETA4 rechargeable handle a longer examination time of approx. 3x

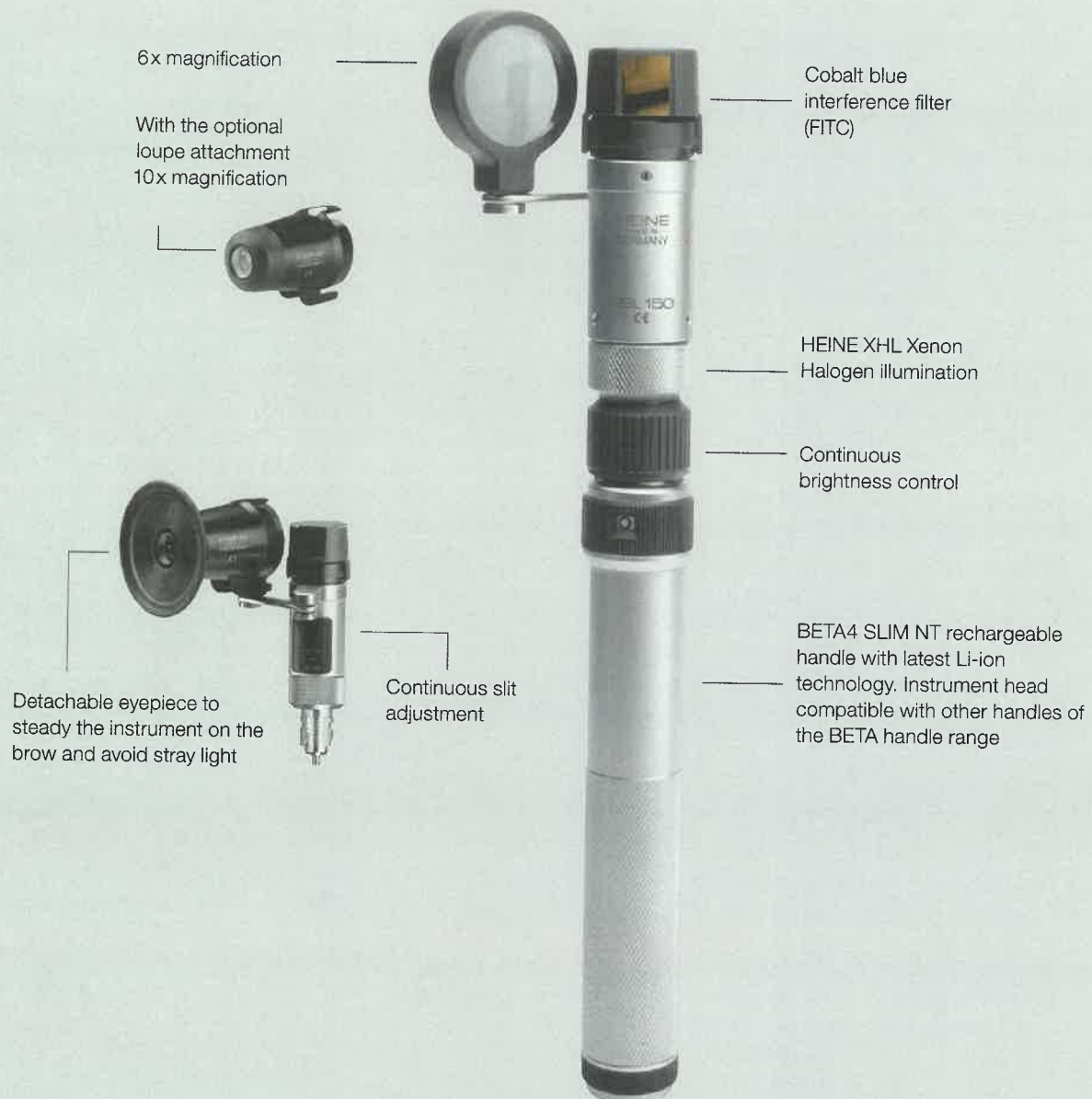
## For a very bright, readily visible fundus reflex:

Brilliant, precise LED streak image. Completely homogeneous and bright light for a precise, fast diagnosis. Adjustable feel-good lighting for the patient: patented, unique, stepless dimming from 3% to 100% with practical one-finger operation.



# HEINE HSL 150 HAND-HELD SLIT LAMP

The ideal portable solution for the examination of the anterior segment.  
Light, mobile and easy to use.

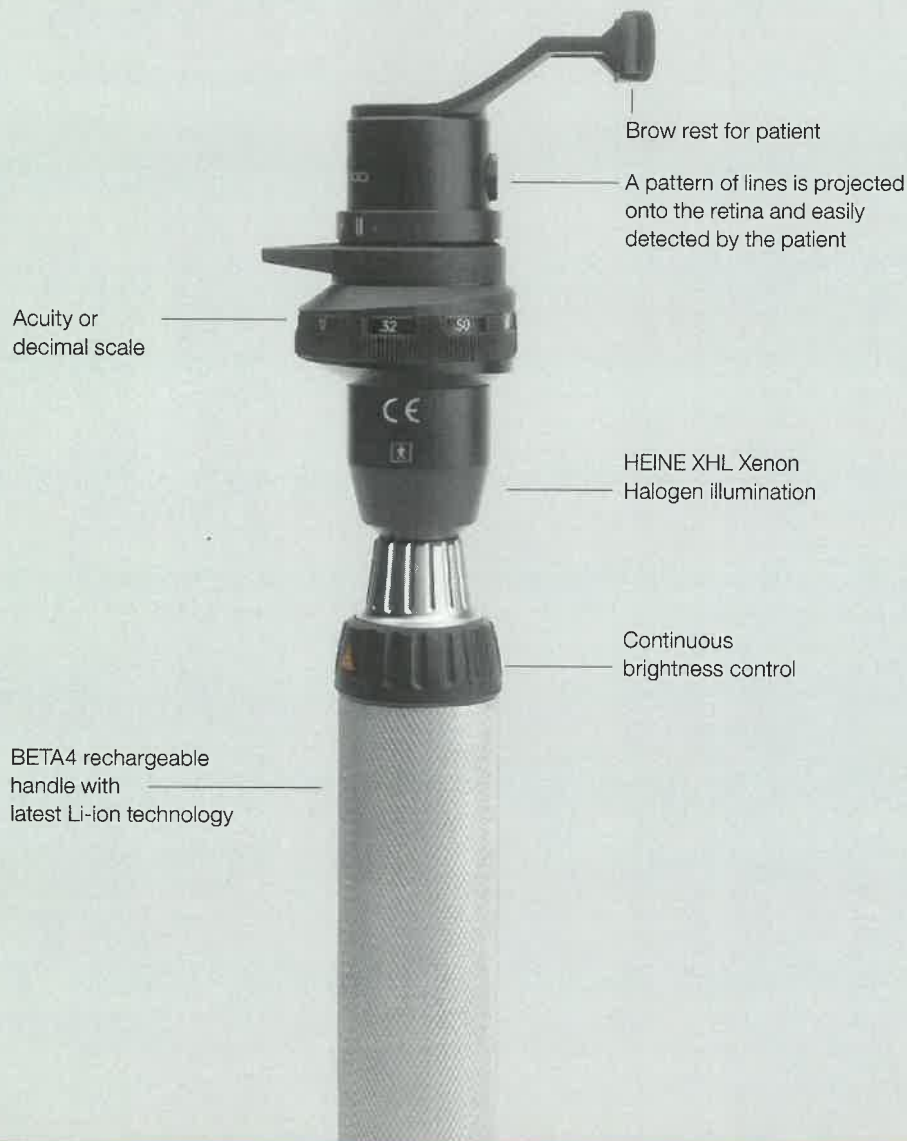


**THE HSL 150 FEATURES BRIGHT, WHITE XHL XENON HALOGEN ILLUMINATION** comparable in intensity with the best static slit lamps for examination of the anterior segment. The compact, ergonomic design provides instant loupe alignment of the slit image for comfortable operation. The HSL 150 provides a 10x0.2mm up to 14x4 mm slit image for direct focal illumination with an optical section. The ideal alternative for examinations where a static slit lamp is not available or practical to use. This hand-held slit lamp is invaluable for screening, in accident and emergency rooms, and for bed-ridden patients or small children.



# HEINE LAMBDA 100 RETINOMETER

The easy way of determining potential visual acuity after cataract surgery – proven by studies\*.



## \* SUMMARY OF STUDIES:

- Even in patients with opacities, relatively accurate prediction of potential visual acuity (especially in cases of moderate cataracts).<sup>3-5</sup>
- Retrospective analysis: In 94.5 % of cases the achieved postoperative visual acuity was equal to or higher than the one earlier determined with the retinometer.<sup>5</sup>
- Helpful in planning surgery, especially on patients also suffering from another condition that affects their sight, which is the case for just under a third of all cataract patients.<sup>1,5</sup>
- Determines whether a combined operation is necessary or whether cataract surgery alone is sufficient.
- Useful in managing expectations, which is particularly important when dealing with patients with an ocular comorbidity where there is limited probability of improved visual acuity after surgery.<sup>5</sup>
- Rapid examination, taking less than 2 minutes, and easy to perform.<sup>2</sup>



**The HEINE LAMBDA 100 Retinometer helps you explain the situation to your patients – improving the trust between doctor and patient.**

1. Lundström M, et al. J Cat Refract Surg 2012; 38:1086-1093., 2. User manual for the HEINE LAMBDA 100 Retinometer., 3. Mistlberger A, Alzner E. Spektrum Augenheilkunde 1995;9/2:77-79., 4. Mimouni M, et al. Eur J Ophthalmol. 2017; 30:27:559-564., 5. Bamahfouz A, et al. Int J Sci Stud 2015;3:105-109.

# HEINE HAND-HELD INDIRECT OPHTHALMOSCOPE

For a fast and reliable fundus examination. Convenient hand-held indirect ophthalmoscope for mobile use.

Coated optical glass provides a clear and sharp image, even with a high level of illuminance

Optionally integrated interference red-free filter for increased contrast

One-hand operation: All control elements can be reached with the thumb

HEINE XHL Xenon Halogen illumination

Continuous brightness control

+3 dpt. lens attachment

Adjustable illumination beam, for the examination of small pupils

BETA4 rechargeable handle with latest Li-ion technology



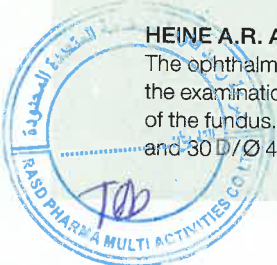
## HEINE A.R. Aspheric Ophthalmoscopy Lens

The ophthalmoscopy lens which is needed for the examination provides a 3 – 5 x magnification of the fundus. 16 D/Ø 54 mm, 20 D/Ø 50 mm and 30 D/Ø 46 mm.



## HEINE Hand-held Indirect Binocular Ophthalmoscope

Adding the binocular attachment to the hand-held indirect ophthalmoscope allows stereoscopic examination. PD selection from 54 to 74 mm



# ORDERING INFORMATION



BETA 200 Ophthalmoscope with	2.5V XHL	3.5V XHL	LED
BETA battery handle, spare bulb, hard case	C-144.10.118		
BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest, spare bulb for XHL version, hard case		C-144.27.388	C-144.28.388
BETA4 NT rechargeable handle, NT4 table charger, spare bulb for XHL version, hard case		C-144.23.420	C-144.24.420



BETA 200S Ophthalmoscope with	2.5V XHL	3.5V XHL	LED
BETA battery handle, spare bulb, hard case	C-261.10.118		
BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest, spare bulb for XHL version, hard case		C-261.27.388	C-261.28.388
BETA4 NT rechargeable handle, NT4 table charger, spare bulb for XHL version, hard case		C-261.23.420	C-261.24.420



BETA 200 Streak Retinoscope with	2.5V XHL	3.5V XHL	LED
BETA battery handle, spare bulb, hard case	C-034.10.118		
BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest, spare bulb for XHL version, hard case		C-034.27.388	C-034.28.388
BETA4 NT rechargeable handle, NT4 table charger, spare bulb for XHL version, hard case		C-034.23.420	C-034.24.420
<b>Accessories:</b>			
Spare bulb to convert to Spot Retinoscope	X-001.88.088	X-002.88.090	
Fixation cards with holder for dynamic retinoscopy			C-000.15.360



HSL 150 Hand-held Slit Lamp with	2.5V XHL	3.5V XHL
BETA4 SLIM NT rechargeable handle, NT4 table charger, spare bulb, hard case		C-266.20.471
BETA SLIM battery handle, soft pouch, without spare bulb	C-252.10.105	
<b>Accessories:</b> HSL 10x Loupe Attachment for HSL 150		C-000.14.606



LAMBDA 100 Retinometer with	3.5V XHL
acuity scale (scale 2), BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest, spare bulb	C-037.27.388
decimal scale (scale 1), BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest, spare bulb	C-038.27.388



Hand-held Indirect Ophthalmoscope MONOCULAR with	3.5V XHL
BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest	C-020.27.388
BETA4 NT rechargeable handle, NT4 table charger	C-020.23.420

Hand-held Indirect Ophthalmoscope BINOCULAR – PD selection from 54 to 74 mm with	3.5V XHL
BETA4 USB rechargeable handle, medical approved plug-in power supply, handle rest	C-021.27.388
BETA4 NT rechargeable handle, NT4 table charger	C-021.23.420

You will find more information about the sets and accessories in our complete catalogue or at [www.heine.com](http://www.heine.com)  
Due to local regulations, some products may not be available in your country.



# QUALITY made in GERMANY.

As a global leader in the manufacture of primary diagnostic instruments with over 500 employees, HEINE Optotechnik has been a 100% family owned and managed company for more than 75 years. We continue to develop and manufacture HEINE instruments at our facilities in Germany, where we combine decades-long experience and craftsmanship with the most modern manufacturing technologies.

We are represented in over 120 countries around the world, with subsidiaries in the US, Canada, Australia and Switzerland as well as 3,000 representatives, importers and specialist dealers.

We look forward to hearing from you – and would like to know more about your opinions, desires and suggestions regarding our products.



■ HEINE SUBSIDIARY COMPANIES & REPRESENTATIVES

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We reserve the right to change specification without notice.  
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# Ophthalmoscope



## Product Details:

- **Manufacturer/Country of Origin:** Vitalitaet Medtech Co.,Ltd./CHINA.
- Professional Lens System
- New LED Technology / XHL Xenon Halogen Technology
- 5 Different Apertures
- Range of lenses: -20D~+20D
- Optional Rechargeable Handle



## Technical Specifications

<b>Illumination</b>	Direct Illumination
<b>Luminance</b>	18.5 Lumen
<b>Bulb</b>	Specified model: V-BP101 (LED Bulb) / V-BP102(XHL Bulb) 2.5V, 0.7A, Ø=4.8mm
<b>Battery</b>	2 AA alkaline batteries
<b>Operation</b>	Temperature: 10°C~35°C Humidity: 30%~75% Air pressure: 700hPa~1060hPa
<b>Storage &amp; Transport</b>	Temperature: -40°C~70 °C Humidity: 10%~90% Air pressure: 500hPa~1060hPa



# Otoscope



## Project Details:

- **Manufacturer/Country of Origin:** Vitalitaet Medtech Co.,Ltd./CHINA.
- **Model:** VM-T300
- Larger View Window.
- 3X Magnification.
- Larger View Window.
- LED Technology / XHL Xenon HalogenTechnology.
- Optional Rechargeable Handle.

## Technical Specifications

**Illumination:** Fiber Optic Illumination

**Luminance:** 18.5 Lumen

**Magnification:** 3X

**Tip Sizes:** 2.4mm, 3mm, 4mm, 5mm

**Bulb:** Specified model: V-BT101 (LED Bulb) / V- BT102(XHL Bulb)  
2.5V, 0.7A, Ø=4.8mm

**Battery:** 2 AA alkaline batteries



**Operation:** Temperature: 10°C~35°C  
Humidity: 30%~75%  
Air pressure: 700hPa~1060hPa

**Storage** Temperature: -40°C~70 °C

**&Transport** Humidity: 10%~90%  
Air pressure: 500hPa~1060hPa

**Standard** MDD 93/42/EEC, EC 60601-1: 2012, IEC 60601-1-2:2007.



## REFRACTION ACCESSORIES

### TRIAL FRAME & LENS SETS

# DELIGHT IN SIGHT

Most natural way  
of refraction.



- The refraction accessories cover all your needs
- Portable
- Standard DIA 38 mm
- Comfortable Trial Frame 10
- Light plastic frames in Trial Lens Set 266
- Thin metal frames in Perimeter Lens Set 68



**TOMEY**



# TOMEY TRIAL FRAME & LENS SETS



## QUALITY IN DETAIL

With the **TOMEY Trial Frame 10** and **TOMEY Trial Lens Set 266** it is possible to perform the subjective refraction in the most comfortable and natural way. The **TOMEY Perimeter Lens Set 68** offers best support during the Perimeter examination.

### TRIAL FRAME 10

The Trial Frame 10 offers space for a total of 10 trial lenses with 38 mm diameter. Due to its many adjustment options and the second nose bridge in smaller size, the Trial Frame 10 may perfectly be adapted to every shape of face.

#### SPECIFICATIONS

##### Axial scale steps

5°

##### Lens holder load capacity

5 standard trial lenses  
each on right/left side

##### Range of PD scale

50–80 mm

##### Range of nose bridge adjustment

Height: 0–23 mm

Angle: 0°–360°

##### Weight

61 g



### TRIAL LENS SET 266

The Trial Lens Set 266 comes as a carrying case equipped with a wooden tray and 266 pieces of trial lenses. With their plastic rims of 38 mm diameter, the lenses are compatible with the TOMEY Trial Frame 10. To round off the Trial Lens Set 266, also two cross cylinder and a microfiber cloth are included.

#### SPECIFICATIONS

##### Spherical lenses:

+/- 20.00D

##### Cylindrical lenses:

+/- 6.00D

##### Prism lenses:

0.50 – 10.00 PD

##### Cross cylinder:

+/- 0.25 // +/- 0.50

##### Accessory lenses:

10 pieces

##### Plastic rim diameter:

38 mm

##### Lens diameter:

25 mm

### PERIMETER LENS SET 68

The Perimeter Lens Set 68 supports in determining the field of vision even in people with ametropia. The 68 lenses fit perfectly into the lens holders of all TOMEY Perimeter. Thanks to the thin metal frame of the lenses, the size of the visual field during Perimeter examination is almost not affected. A microfiber cloth is included.

#### SPECIFICATIONS

##### Spherical lenses:

+/- 16.00D

##### Cylindrical lenses:

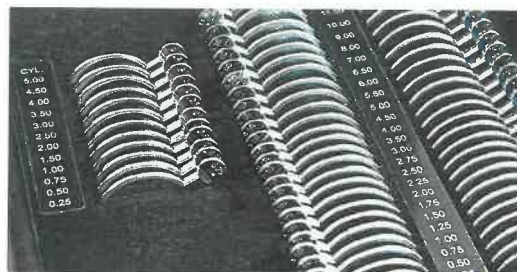
0.25 – 6.00D

##### Metal rim diameter:

38 mm

##### Lens diameter:

36 mm



subject to change without notice



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Fax +81 52 561 4735  
Email intl@tomey.co.jp



www.tomey.de

# Digital baby weighing scale

**Place of Origin:** China.

**Brand Name:** TOYE.

**Model Number:** EB823.

**Power Supply:** 2 X AAA battery.

**Display Type:** LCD display.

**Rated Load:** 100kg, 100 KG.

**Accuracy:** 0.01kg, 50 G.

**Material:** ABS plastic part.

**Type:** electronic baby scale.





Product Service

# EC Certificate

## Product Quality Assurance System

Directive 93/42/EEC on Medical Devices (MDD), Annex VI  
(Devices in Class I with measuring function)

No. G3M 18 03 12163 068

**Manufacturer:****seca gmbh & co. kg**

Hammer Steindamm 3-25  
22089 Hamburg  
GERMANY

**Facility(ies):**

seca gmbh & co. kg  
Hammer Steindamm 3-25, 22089 Hamburg, GERMANY

**Product  
Category(ies):**

**Medical scales, measuring devices for  
determination of body length and circumference  
as well as blood pressure meter**

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for final inspection and test of the respective devices / device categories in accordance with MDD Annex VI. This quality assurance system covers those aspects of manufacture concerned with the metrological requirements of the respective devices / device categories and conforms to the requirements of this Directive. It is subject to periodical surveillance. See also notes overleaf.

**Report no.:**

713128921

**Valid from:**

2018-05-10

**Valid until:**

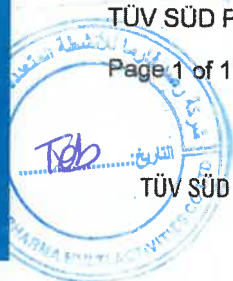
2023-05-09

**Date,** 2018-05-03

Stefan Preiß

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

Page 1 of 1



# seca 700

## Mechanical column scales with eye-level beam

product sheet [ **seca 700**



- Extra high capacity of 220 kg, also for heavyweight patients.
- Large, low platform.
- Simple to operate and easy to read due to eye-level beam.
- Sturdy construction with cast-iron base.
- Transport castors for mobile use.



## seca 700:

### Precision and quality with character.

**A**bsolute precision and an indestructible mechanism are prerequisites for a scale which is used daily in professional health care. With these qualities, the reliable column scale with the characteristic beam at eye level has made a name for itself in medical practice. The optimized, updated model seca 700 now has an even higher capacity of 220 kg, is easier to operate and has an improved design. Its profile is in keeping with the modern requirements in general medicine, in internal medicine and in nutrition consultation.



product sheet [ **seca 700** ]

#### High capacity and large platform.

With its capacity of 220 kg, the seca 700 has been specially designed for weighing overweight and adipose persons. To ensure durability, special attention was paid to the high-quality construction – right down to the smallest detail. The generously sized, low level platform make the seca 700 easy to mount. Weighing has thus become much more comfortable, not only for the patients but also for doctors and carers.

#### Easy to operate and read due to eye-level beam.

The weight scale, which has been affixed at eye level so that the result can be read off comfortably, is printed on both sides so that it can be read both by the person standing on the scale and by the person standing in front of the scale. The large numerals make it easier to quickly determine the weight. A special coating reliably prevents the scale from fading even after years of use.

#### Sturdy construction of cast iron and integrated transport castors.

The base of the seca 700 is made of cast iron and can cope with even the most intensive usage. The special coating on the lever apparatus protects the inner parts against corrosion and therefore guarantees precise results for a long time. In spite of its compact construction, the scale can be moved easily and quickly on the integrated transport castors to wherever it is needed. Fitted with the optional telescopic measuring rod seca 220, the seca 700 makes time-saving weighing and measuring possible in one step.



*The optional measuring rod seca 220 allows convenient weighing and measuring in one step.*



*The broad and flat construction provides easy step-on access and a firm foothold.*

## seca 700

### Technical Data

- Capacity: 220 kg, 500 lbs or 160 kg / 400 lbs
- Graduation: 50 g, 1/8 lbs or 100 g / 1/4 lbs
- Dimensions (WxHxD): 520 x 1,556 x 520 mm / 20.5 x 61.3 x 20.5"
- Dimensions platform (WxHxD): 335 x 80 x 345 mm / 13.2 x 3.1 x 13.6"
- Weight: 16.2 kg / 35.7 lbs
- Functions: reset-to-zero function
- Optional: measuring rod seca 220



## HOSPYNEB Heavy Duty Nebulizer



### Technical Specifications:

- Country of Origin: Italy.
- Piston compressor nebulizer for professional and home care use.
- It embodies all the dictates of modern aerosol therapy techniques.
- Reliable and simple to use, also by inexperienced users.
- Operating voltage: 230 V - 50 Hz.
- Size: 28 x 19 x h 17 cm.
- Max pressure: 350 kPa (3.5 bar).
- Noise level: 60 dBA.
- Operating pressure: 0-130 kPa (0-1.3 bar).
- Weight: 4.1 kg.
- Air Flow: 15 l/min.
- MDD class: IIa.
- CAPACITY: 16 ML.
- RESPIRABLE VOLUME: < 5  $\mu$ M 80%.
- MMAD (MASS MEDIAN AERODYNAMIC DIAMETER): 2.11  $\mu$ M.
- NEB RATE: 0.35 ML/MIN (60 KPA) ÷ 0.80 ML/MIN (130KPA).
- RESIDUAL VOLUME: 0.7 ML.



# HOSPYNEB PROFESSIONAL

POMPA SINGOLA

SINGLE PUMP

POMPE SIMPLE

EINZELPUMPE

BOMBA SIMPLE

GUARANTEED

3

YEARS

HOSPITAL

- 1 - Interruttore ON/OFF / ON/OFF Switch / Interrupteur ON/OFF / Ein-Ausschalter (ON/OFF) / Interruptor ON/OFF
- 2 - Regolatore pressione all'ampolla / Operating pressure regulator / Régulateur de pression à l'ampoule / Druckregler der Sprühflasche / Regulador de presión a la ampolla
- 3 - Manometro visualizzazione pressione all'ampolla / Operating pressure gauge / Manomètre d'affichage pression à l'ampoule / Manometeranzeige des Sprühflaschendrucks / Manómetro visualización de presión a la ampolla
- 4 - Connettore aria / Outlet air connector / Connecteur air / Luftanschluss / Conector de aire
- 5 - Filtro aria in aspirazione / Air filter / Filtre à air d'aspiration / Saugluftfilter / Filtro de aire de aspiración



## ACCESSORI IN DOTAZIONE / ACCESSORIES INCLUDED / ACCESSOIRES STANDARD / AUSSTATTUNGSZUBEHÖR / ACCESORIOS ESTÁNDAR:

- Kit nebulizzatore FASTERJET (Nebulizzatore - Maschere Pediatrica e Adulti Boccheruola - Forcella Nasale)  
VEDI MANUALE ACCESSORI
- FASTERJET nebulizer kit (Nebulizer - Pediatric and Adult Masks Mouthpiece - Nosepiece)  
SEE ACCESSORIES MANUAL
- Kit nébulisateur FASTERJET (Nébulisateur - Masques enfant et adulte Embout buccal - Fourche nasale)  
VOIR MANUEL ACCESSOIRES
- BausatZ Zerstäuber FASTERJET (Zerstäuber - Maske für Kinder und Erwachsene - Mundstück- Nasenstück)  
SIEHE GEBRAUCHSANLEITUNGEN DES ZUBEHÖRS
- Kit nebulizador FASTERJET (Nebulizador - Mascarillas pediátrica y adulto Boquilla - Horquilla nasal)  
VÉASE MANUAL DE ACCESORIOS
- Ricambio filtro porex
- Porex filter replacement
- Filtre de rechange porex
- Ersatzfilter Porex
- Repuesto filtro porex



GB

**Medical Device (Class IIa – MDD 93/42/EEC) – Read the instructions carefully before use**

**HOSPYNEB** is a professional device for the administration of medication for the treatment and relief of the respiratory tract intended for use to administer aerosoltherapy on the recommendation of a physician.

**HOSPYNEB** is equipped with a piston compressor with incorporated air filter that is periodically replaced (every 70 applications). Reliable, durable and lubrication-free, it is constructed in observance of current European regulations for the safety of devices for electromedical use (EN 60601-1; EN13544-1) and has been tested for conformity to EMC standards (EN60601-1-2);

**HOSPYNEB** includes accessories manufactured by 3A (see accessories manual) that have been laboratory tested in conformity with the most recent scientific criteria for the effectiveness and biological safety (the bio-compatibility of the accessories is certified by specialized analysis laboratories).

**NOTICES**

This is a medical device for home/professional use and must only be used with a doctor's prescription. It must be operated as indicated in this instruction manual. It is important that the patient read and understand the information for the use and maintenance of the unit. Contact a trusted reseller for any questions.

Do not use this device for any purpose other than its intended use, i.e., as an aerosoltherapy device. The manufacturer is not responsible for improper use.

The device is not suitable for anesthesia or pulmonary ventilation.

This equipment is not suitable for use in the presence of an inflammable anesthetic mixed with air, oxygen or nitrous oxide.

The device's cover is not protected against the penetration of liquids.

The device must only be used with its original accessories, as shown in the instruction manual

Always use the device and its accessories following the recommendations of your doctor. Use only medications prescribed by your doctor and only in the manner that the latter has indicated.

Do not use extension cords or adapters and we recommend always unwinding the electric cord to avoid dangerous overheating. Keep the device and its cord away from hot surfaces. Always unplug the cord after use.

Never immerse the product in water; if this should occur, immediately disconnect the plug from the electric socket. Do not touch or attempt to remove the submerged device from the water without having first disconnected the plug from the electric socket.

Do not use the device after removing from the water (immediately send it to a reseller you trust).

Do not open and/or tamper with the device. If the device is not working correctly, turn it off and consult the instruction manual. Contact a trusted reseller for any repairs.

The device contains small parts that can be removed and easily swallowed. Its use by minors or the disabled thus requires the presence of an adult with full mental faculties. Do not leave the device unattended in places easily accessible by minors and the disabled.

Keep in a clean, dry place, protected from direct sunlight, sources of heat and the weather.

Dispose of the device in conformity with current law.



fig. A



fig. B



fig. C

**INSTRUCTIONS FOR PUTTING THE DEVICE INTO OPERATION**

1. Insert the plug into an electric socket with the correct voltage for the device.
2. Unscrew the ampoule bottle so that it separates into two parts (fig. A).
3. Fill the lower part of the ampoule with the medication prescribed by the doctor (fig. B). Notice: the level notches in the lower part of the ampoule have an indicative value only.
4. Screw the two parts of the ampoule back together (fig. C).
5. Insert the tube coming from the compressor OUTLET (fig. C).
6. Using the specific connector provided, attach the selected treatment accessory: mask, mouthpiece or nosepiece.
7. When the application is completed, turn-off the device and remove the plug from the electric outlet.



Fig. 1a



Fig. 1b

**CLEANING AND DISINFECTION**

Carefully wash your hands before cleaning and disinfecting the accessories.

Replacing the filter: Lift the filter cover and use a flat screwdriver as a lever, as shown in figure 1a; detach the filter to be replaced and insert the replacement, as shown in figure 1b. Finally, insert the filter cover in its seat, making it adhere to the surface. Compressor cleaning: Never immerse the device or wash it under

water; if you wish to clean it, use only a damp cloth with a (non-abrasive) detergent. Accessory cleaning: See the accessory instruction manual

**PROBLEMS, CAUSES AND SOLUTIONS**

**THE DEVICE WON'T TURN-ON**

- Make sure the plug is fully-inserted in the electric outlet.
- Make sure the switch is in the on position (I).

**THE DEVICE IS ON BUT DOESN'T NEBULIZE**

- Make sure you have inserted the nebulization nozzle (pisper) inside the ampoule.
- Make sure the air connection tube is not crushed or bent.
- Make sure the aspiration filter is not obstructed or dirty. If so, replace it with a new one.

- Make sure that there is medication in the ampoule.

**THE DEVICE DOESN'T WORK**

- The thermoprotector has been tripped for the one of the following reasons:

- the device has operated near a source of heat or in an environment with temperatures exceeding 40 °C.

**Let the device cool for at least 60 minutes and then turn it on again.**

*N.B.: In the event the device does not resume working despite having made the above checks, contact a trusted reseller.*



SPECIFICHE TECNICHE/TECHNICAL DATA/CARACTERISTIQUES TECHNIQUES  
TECHNISCHE KENNDATEN/ESPECIFICACIONES TÉCNICAS

Elettrocompressore pistone con protettore termico  
Piston electrocompressor with thermal cut - out  
Electrocompresseur piston avec protection thermique  
Elektro-Kolbenverdichter mit Überhitzungsschutzschalter  
Eletrocompresor con pistón con protector térmico

Voltaggio Nominale: Vedi etichetta dati - Nominal voltage: see data label - Voltage nominal : voir l'etiquette des donnees  
- Nennspannung: siehe typenschild - Voltaje nominal: ver etiqueta de datos.

Dimensioni:/Dimensions:/Dimensions:/Abmessungen:/Dimensiones: 190x170x280 mm

Peso:/Weight:/Poids:/Gewicht:/Peso: 2.6 Kg.

Apparecchio per Uso continuo/Continuous use compressor/ Appareil pour utilisation continue/Für

Dauerbetrieb getestet/Cabezal para uso continuo

MDD 93/42/EEC - Classe di rischio: IIa/Class of risk: IIa/Classe de risque: IIa/Risikoklasse: IIa/Clase de riesgo: IIa

Pressione massima/Maximum pressure/Pression maximale/Maximal Druck/Presión máxima:

350 kPa (3.5 bar)

Portata d'aria:/Air flow:/Débit d'air:/Luftdurchsatz:/Caudal del aire. 15 l/min

Rumorosità:/Noise level:/Niveau de bruit:/Betriebsgeräusch:/Ruido: 60 dBA (EN13544-1)

Prestazioni EN13544-1: Vedi foglio aggiuntivo Nebulizzatore - Performance: see extra nebuliser sheet - Performances: voir

le feuillet annexe au nebuliseur - Leistung: siehe merkblatt der sprühflasche - Prestaciones: ver hoja adicional nebulizador.

Pressione d'esercizio/Operating pressure/Pression d'exercice/Betriebsdruck/Presión de funcionamiento:

0-130 kPa (0-1.3 bar)

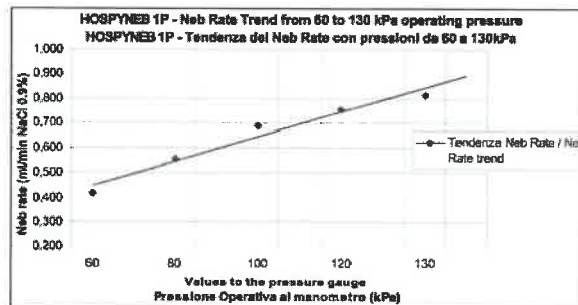
Range consigliato/recommended range/plage recommandée/empfohlener Bereich/campo recomendado: 60 ÷ 130 kPa

Flusso operativo/Operating flow/Flux a l'ampoule/Fluss aus der Flasche/Flujo en la ampolla:

5 l/min (60 Kpa) - 7,5 l/min (130 kPa)

Nebulizzazione / Neb rate /Temps de nebulisation/Zerstäubungsdauer/Tiempo de nebulización :

0.35 (60 kPa) ÷ 0.80 (130 kPa) ml/min (NaCl 0.9%)



Simbologia - Symbols - Symbolique - Verwendete symbole - Simbologia

⚠ Apparecchio di tipo B/Type B device/Appareil de type B/Geräteyp B/Aparato de tipo B

⚠ Attention: controllare le istruzioni d'uso/Instructions have to be followed up with care

⚠ Attention: contrôler le mode d'emploi/Achtung: Halten Sie sich genau an die vorliegenden Bedienungsanleitungen/Atención: Controlar las instrucciones de uso/

○ Interruttore spento/Switch "OFF"/Interrupteur éteint/Ein-Ausschalter ausgeschaltet/Interruptor apagado

I Interruttore acceso/Switch "ON"/Interrupteur allumé Ein-Ausschalter eingeschaltet/Interruptor encendido

~ Corrente alternata/Alternating current/Courant alternatif/Wechselstrom/Corriente alterna

⚠ Non utilizzare l'apparecchio mentre si fa il bagno o la doccia/Never use the unit while having a bath or shower/Ne pas utiliser l'appareil pendant le bain ou la douche/Das Gerät darf nicht während des Badens oder in der/No utilizar el aparato mientras se hace el baño o la ducha.

⚡ Fusibile di protezione/Protection fuse/Fusible de protection/Sicherung/Fusible de proteccion

Condizioni di esercizio/Operating requirements/Conditions d'exercice/Betriebsbedingungen/Condiciones de funcionamiento

- temperatura:/Temperature:/température:/Betriebstemperatur:/Temperatura: min. 10°C; máx 40°C

- umidità aria:/Air humidity/humidité air:/Luftfeuchtigkeit:/Humedad del aire: min. 10%; máx 95%

Condizioni di conservazione/Storage requirements/Conditions de conservation/Lagerbedingungen/Condiciones de conservación:

- temperatura:/temperature:/température:/Lagertemperatur:/Temperatura: min. -25°C; máx 70°C

- umidità aria:/air humidity/humidité air:/Luftfeuchtigkeit:/Humedad del aire: min. 10%; máx 95%



## CERTIFICATO DI GARANZIA/WARRANTY CERTIFICATE

VALEVOLE 36 MESI dalla data di vendita/VALIDITY 36 MONTHS from date of purchase

Data di vendita  
Date of purchase

Rivenditore(timbro e firma  
Dealer(Stamp and signature)

La presente garanzia non è valida se non "unitamente allo scontrino fiscale dell'apparecchio" e all'apparecchio difettoso. Sono esclusi dalla garanzia danni causati da usi impropri, incidenti o mancanza di cure opportune./ This warranty certificate is valid only if returned to your dealer along with Receipt and Faulty Unit. Warranty does not cover damages caused by misuse, crashes or lack of attention.

### DESCRIZIONE GUASTO/ FAULT DESCRIPTION



**AVVERTENZE PER IL CORRETTO SMALTIMENTO DEL PRODOTTO AI SENSI DELLA DIRETTIVA EUROPEA 2002/96/EC.**  
Alla fine della sua vita utile il prodotto non deve essere smaltito insieme ai rifiuti urbani.

Può essere consegnato presso gli appositi centri di raccolta differenziata predisposti dalle amministrazioni comunali, oppure presso i rivenditori che forniscono questo servizio.

**IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE 2002/96/EC.**  
At the end of its life, the product must not be disposed of as urban waste.

It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.

**AVERTISSEMENTS POUR L'ÉLIMINATION CORRECTE DU PRODUIT AUX TERMES DE LA DIRECTIVE EUROPÉENNE 2002/96/EC.**  
Au terme de son utilisation, le produit ne doit pas être éliminé avec les déchets urbains.

Le produit doit être remis à l'un des centres de collecte sélective prévus par l'administration communale ou après des revendeurs assurant ce service.

**WICHTIGER HINWEIS FÜR DIE KORREKTE ENTSORGUNG DES PRODUKTS IN ÜBEREINSTIMMUNG MIT DER EGRICHTLINIE 2002/96/EC.**  
Am Ende seiner Nutzzeit darf das Produkt NICHT zusammen mit dem Siedlungsabfall beseitigt werden.

Es kann zu den eigens von den städtischen Behörden eingerichteten Sammelstellen oder zu den Fachhändlern, die einen Rücknahmeservice anbieten, gebracht werden.

**ADVERTENCIAS PARA LA ELIMINACIÓN CORRECTA DEL PRODUCTO SEGÚN ESTABLECE LA DIRECTIVA EUROPEA 2002/96/EC.**  
Al final de su vida útil, el producto no debe eliminarse junto a los desechos urbanos.

Puede entregarse a centros específicos de recogida diferenciada dispuestos por las administraciones municipales, o a distribuidores que facilitan este servicio.



**3A HEALTH CARE s.r.l.**

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tel. +39 030 9133177 - fax +39 030 9919114

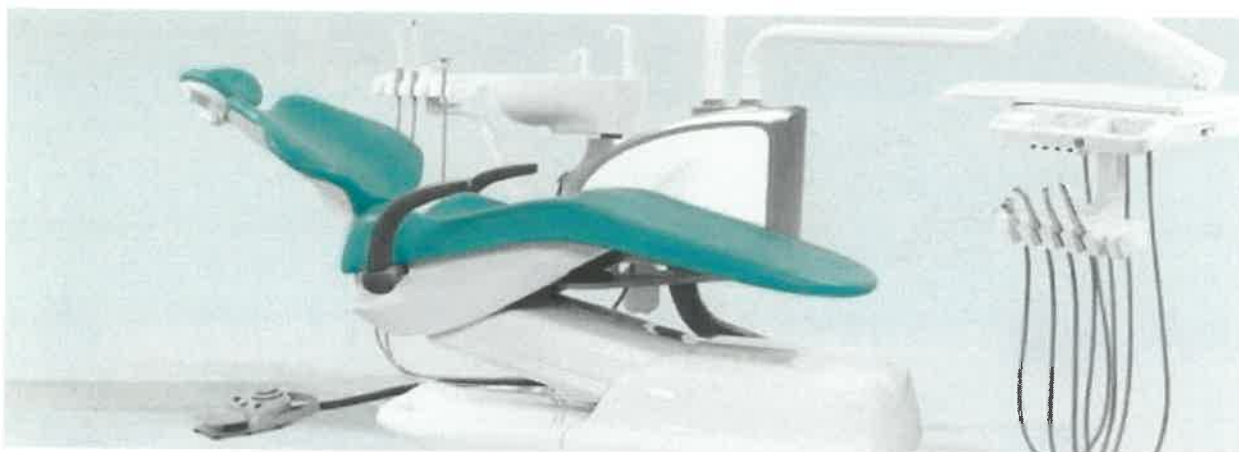
e-mail: mail@3-a.it - www.3-a.it

CE 0434 (dir. 93/42/EEC)

3A1567 - rev. 03 - 10/2011



## AJ11 Dental Treatment Unit



### Product Details:

- Country of Origin: China.
- AJ11 Dental Unit.
- Voltage: 100/110/120/220/230V, 50/60Hz.
- Reliable Stable Durable.
- Air pressure: 550-800 Kpa.
- Water pressure: 200-400 Kpa.
- Net weight: 150 Kgs.
- Gross weight: 200 Kgs.
- Packing dimensions: 1434\*1114\*1157 mm.
- **Delivery system:** International delivery system, built-in X-ray viewer, 3 tubes.
- **Junction box:** Internal junction box with air/water filters and regulators, Power supply system.
- **Patient chair:** Mental backrest, ultrathin PU seamless cushion, rotatable armrest.



### **Parts of dental treatment chair:**

- Lighting of dental treatment unit: Pebble LED cold-light lamp.
- Foot control of dental chair and unit: 9 functions foot control.
- Dental stool of dental chair unit: D1 dental stool with 2 functions.
- Side box of dental operating chair: Aluminum cast water unit frame, Rotatable ceramic spittoon, Solenoid valve, 1 HVE and 1 SE, 24V water heater, 1300ml water purification system, Imported water tube lines, 1 Three-way syringe, Assistant console, Assistant three-way syringe, 1 HVE and 1 SE handle, With assistant Tray.

### **User-centric Design**

- **Assistant Tray and three-way syringe**  
Convenient for assistant to use and operate, Smart emergency stop button, Flat head internal groove button design, effectively prevent the wrong touch.
- **Water bottle one switch control**  
One switch instead of the traditional two switches, simple and easy to operate Switch is hidden under the water bottle module, not easy to touch when wiping the box.

### **Well-being for Patients**

- **Comfortable seamless PU cushion**  
Made of extremely wear-resistant microfiber leather with excellent softness and breathable properties. The cushion is filled with highly elastic foam and are perfect for all body shapes, keeping patients comfortable and relaxed during the long term treatment.

### **Comfortable headrest**

Compared with traditional flat headrest, cambered headrest holds the head and prevents it from moving from side to side. The underside of the headrest is raised to provide support for the back of the neck.

### **U-shaped backrest design**

To ensure healthy work of doctors, the height difference between the edge of the backrest and the center is up to 8cm, and the edge thickness of the cushion is only 2.5cm, which remains wide space for legs of the doctors and assistants and allows the medical team to get as close to



the patient as possible. Comfortable treatment for patients; the curved lines of the U-shaped backrest perfectly fit the patient, ensure every place of the back is supported.

### **Well-being for Dentists**

- **D1 two functions dental stool**  
Simple installation and comfortable
- **Spin-on filter**  
Spin-on type, locking and sealing structure, rotate to lock, simple and easy to operate  
Filter is installed outside the water unit, easy to disassemble and clean.

### **Accessibility**

- **Rotatable armrest**  
The right armrest is rotatable, just push it outward, easy to operate, provide patients with a sense of security, convenient for patients to climb up and down.
- **Ultralow chair height**  
The lowest chair height is only 350mm, makes it easy for children or the old to climb up and down.
- **Rotatable ceramic spittoon**  
Rotatable, convenient for patient to spit. Ceramic fired at high temperature, smooth and easy to clean.

### **Stability**

- **High quality metal backrest**  
The backrest is made of 2.5mm high quality steel plate and molded by one-time stamping, extremely rigid. The height of the backrest can be adjusted by 20mm, suitable for patients in different regions.
- **Aluminum cast water unit frame**  
Aluminum casting material with light weight and strong rigidity ensures that the table and cold-light lamp are not shaking when working. Precision die-casting aluminum alloy, solid and reliable.
- **Stable water unit**  
Water unit are fixed in the center of the patient chair, compared with the traditional side connection, it's more stable. The connecting parts are made of 18mm steel plates, greatly enhancing connection rigidity greatly and reducing water unit shaking.



## Keling Examination Light



KL01L.II-LED is a shadow less operation lamp that is suitable for the requirements of various operation conditions and it is ideal lighting equipment for modern & clean operation rooms.

### **Description:**

- Suitable for ENT, urology, gynecology examination and outpatient surgery half auxiliary lighting.
- The LED shadow less lamp is pure-DC power supplied, without any strobe or harmonic.
- The service life of LED shadow less lamp is long (50,000 h).
- LED has high luminous efficiency and it is impact-resistant and strong to resist crumbling, without mercury contamination. The light it sends contains no infra-red or ultraviolet radiation pollution.
- The unique design of the spring arm.
- 12 bulbs.
- Lumination: 60,000 LUX.





# EC Certificate Full Quality Assurance System

Certificate No.:  
9831-2017-CE-RGC-NA-PS rev. 0.0

Project No.:  
PRJC-217612-2010-PRC-CHN

Valid until:  
25 April 2022

This is to certify that the quality system of:

**Wuhan Zoncare Bio-medical Electronics Co., Ltd.**

#380, High-tech 2<sup>nd</sup> road, Eastlake high-tech district, Wuhan, Hubei, P. R. China.

For design, production and final product inspection/testing of:

**Ultrasonic Diagnostic System**

Has been assessed with respect to:

**The conformity assessment procedure described in Article 11.3.a and Annex II excluding section 4 (Module H) of Council Directive 93/42/EEC on Medical Devices, as amended and found to comply.**

Further details of the product(s) and conditions for certification are given overleaf.

Place and date:  
Høvik, 25 April 2017



For:  
DNV GL NEMKO PRESAFE AS

*Tone Kolpus*

**Tone Kolpus**

The Certificate has been digitally signed.  
See [www.presafe.com/digital\\_signatures](http://www.presafe.com/digital_signatures) for more info



Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.

DNV GL NEMKO PRESAFE AS - Veritasveien 3, N-1363 Høvik, Norway - Registered Enterprise No: NO 997 067 401 MVA



# EC Certificate

## Full Quality Assurance System

Certificate No.:  
9831-2017-CE-RGC-NA-PS rev. 0.0

Project No.:  
PRJC-217612-2010-PRC-CHN

Valid until:  
25 April 2022

### Jurisdiction

Application of Council Directive 93/42/EEC of 14 June 1993, adopted as "Forskrift for Medisinsk Utstyr" by the Norwegian Ministry of Health and Care Services.

### Certificate history:

Revision	Description	Issue Date
0.0	Original Certificate	2017-04-25

### Products covered by this Certificate:

Product Description	Product Name	Class
Full Digital Colour Doppler Ultrasonic Diagnostic System	ZONCARE-V3, ZONCARE-Q3, ZONCARE-Q5, ZONCARE-Q6, ZONCARE-Q7, ZONCARE-Q9	Ila

The complete list of devices is filed with the Notified Body

### Sites covered by this certificate

#380, High-tech 2<sup>nd</sup> road, Eastlake high-tech district, Wuhan, Hubei, P. R. China.

### EU Representative

Well kang Limited, The Black Church, St. Mary's Place, Dublin 7, Ireland



# EC Certificate

## Full Quality Assurance System

Certificate No.:  
9831-2017-CE-RGC-NA-PS rev. 0.0

Project No.:  
PRJC-217612-2010-PRC-CHN

Valid until:  
25 April 2022

### Terms and conditions

The certificate is subject to the following terms and conditions:

- Any producer (see 2001/95/EC for a precise definition) is liable for damage caused by a defect in his product(s), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform Presafe of any intended updating of the quality system and Presafe will assess the changes and decide if the certificate remains valid.
- Periodical audits will be held, in order to verify that the Manufacturer maintains and applies the quality system. Presafe reserves the right, on a spot basis or based on suspicion, to pay unannounced visits.

The following may render this Certificate invalid:

- Changes in the quality system affecting production.
- Periodical audits not held within the allowed time window.

### Conformity declaration and marking of product

When meeting with the terms and conditions above, the producer may draw up an EC declaration of conformity and legally affix the CE mark followed by the Notified Body identification number of Presafe.

End of Certificate



# ZONCARE

## ZONCARE-i50

Best choice for B/W Ultrasound System



### System Overview

#### Clinical Applications

Abdomen  
Obstetrics  
Gynecology  
Urology  
Cardiology  
Small Parts  
Vascular

#### Features

Outstanding portable model, compact and streamlined design  
12.1-inch high resolution medical LED monitor with 90 degrees rotation  
Two activated transducer connectors  
Auto-freezing function  
Imaging function: B zoom  
One key full screen function  
Abundant measurement software packages  
Auto-generation BMP format report  
Support USB import and export  
Laser/Ink Jet printer module optional  
Optional built-in lithium battery  
Optional trolley and suitcase

#### Imaging Modes

B, 2B, B/M, M, 4B

#### Advanced imaging Technology

Exclusive Employ Double Wave Form Imaging Technology  
Speckle Noise Reduction Technology  
Tissue-specific Imaging Technology  
Tissue Harmonics Imaging Technology

### Physical Specification

#### Dimension & weight

Main Unit Dimensions:

155mm×360mm×370mm; 6.0kg

Package Dimensions:

460mm×370mm×565mm ; 11.5kg

#### Probe Parameters

Convex Array Probe UT-C-3.5

Central Frequency: 3.5MHz

2.0MHz, 3.0MHz, 3.5MHz, 5.0MHz

TH1.0MHz,

Max. Scanning Depth: 295mm

Abdomen/Obstetric/Gynecology/Urology

Linear Array Probe UT-L-7.5

Central Frequency: 7.5MHz

5.0MHz, 7.5MHz, 10.0MHz, 12.0MHz

TH10.0MHz

Max. Scanning Depth: 110mm

Small Parts/Vascular

Transvaginal Probe UT-C-6.5

Central Frequency: 6.5MHz

5.0MHz, 6.0MHz, 7.5MHz,

TH18.0MHz, TH19.0MHz

Max. Scanning Depth: 110mm

Transvaginal

Micro-convex Probe UT-C-3.5-R20

Central Frequency: 3.5MHz

2.0MHz, 3.0MHz, 3.5MHz, 5.0MHz

H4.0MHz,

Max. Scanning Depth: 150mm

Cardiac/Generic/Pediatric

#### Probe Port & Holder

Probe Ports: 2 Activated Ports

Probe Holders: 2 Probe Holders

#### Electrical power

Input Voltage: AC 100V ~240V

Frequency: 50Hz/60Hz

Input power: 100VA

Fuse: F3.15AL250V (φ5×20 mm)

#### Operating Environment

Ambient Temperature: +5°C ~+ 40°C

Relative Humidity: 25% ~ 80%

Atmospheric Pressure: 70kpa ~106kpa

#### Transportation & Storage

Ambient Temperature: -20°C ~ +55°C

Relative Humidity: 10% ~ 95%

Atmospheric Pressure: 50kpa-106kpa

### Software Specification

#### System Setup

Brightness : 0-15

Contrast: 0-15

Gamma Corr.: 0-15

ScreenSaver: Adjustable

Auto Freeze: Adjustable

Horizontal Scale: Adjustable

Vertical Scale: Adjustable

Gray bar: Adjustable

**Wuhan Zoncare Bio-Medical Electronics Co., Ltd.**

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Fax: 86-27-87770581 Website: www.zoncare.com/en/

# ZONCARE

## ZONCARE-i50

Best choice for B/W Ultrasound System

FSI: Adjustable  
Language: Chinese, English, Spanish  
Date/Time: Adjustable  
Hospital: Adjustable  
Factory Reset: Adjustable

### Parameters

Gain: 0-100  
FPS: 24Hz  
M speed: 10-63  
Frame Corr. 0-255  
Smooth: 0-47  
TSI: 0-6  
Dyn.Range : 30-150dB  
Noise Restrain: 0-31  
Gray Scale: 0-15  
Focus No.: 4  
Focus position: Adjustable  
Scan Angle: 30-100  
Pseudo C.: 0-6  
S Power: 55-100  
THI: Adjustable  
Reverse: Adjustable  
Mirror: Adjustable  
B/W Invert: Adjustable  
Central Line: Adjustable  
Biopsy: 0°, 30°, 45°, 60°  
Save as custom: Adjustable

### App.Type

Abdomen  
Gynecology  
Obstetrics  
Urology

Organ  
Cardiology

### Body Mark

Abdomen: 10 Adjustable  
Gynecology: 4 Adjustable  
Obstetrics: 22 Adjustable  
Urology: 10 Adjustable  
Organ: 24 Adjustable  
Cardiology: 13 Adjustable

### File Mgmt

Memory: 4G  
USB: 2+1  
Cine loops: 1024frames  
Images: at least 500  
Save Image: save to U disk  
save to TF card  
save to local  
Browse Image: U disk  
TF card  
local

### Measurements

#### Generic

Distance  
Area & Cir  
Depth  
Volume  
3 Dist.: Distance1, Distance2, Distance3  
Volume Calculate  
Ellipse Dist.: Ellipse Area, Distance  
Volume Calculate  
Ellipse

### Angle

Distance1, Distance2, Angle Calculate  
Len.Ratio  
Distance1, Distance2, Len.Ratio Calculate  
Area.Ratio  
Area 1, Area 2, Area Ratio Calculate  
M Meas.  
Distance, Time, Heart rate, EF Slope

### Special Meas.

#### Abdomen

Liver  
CHD  
PV  
GB : GBL, GBH, GBW Thick, CBD  
Kidney : Lt Kidney L, Lt K.Thick  
Lt K.W, Lt R.C Thick  
Lt AG L, Lt AG H, Lt AG W  
Rt Kidney L, Rt K.Thick  
Rt K.W, Rt R.C Thick  
Rt AG L, Rt AG H, Rt AG W

#### Spleen

Pancreas: PD, PH, PB, PT  
AA, AO  
Lliac Artery

### Gynecology

Uterus: Uterus L, Uterus H, Uterus W  
En Thick  
Cervix: CX L, CX H, CX W  
Ovary: Lt Ov L, Lt Ov H  
Rt Ov L, Rt Ov H

Wuhan Zoncare Bio-Medical Electronics Co., Ltd.

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# ZONCARE

## ZONCARE-i50

Best choice for B/W Ultrasound System

Follicle: Follicle 1

Follicle 2

Follicle 3

Follicle 4

Follicle 5

Follicle 6

Follicle 7

Follicle 8

Bladder: Full Urine BL L

Full Urine BL H

Full Urine BL W

Empty Urine BL L

Empty Urine BL H

Empty Urine BLW

Prostate : Pro L

Pro H

Pro W

Pro Mass

SV: Lt SV L

Lt SV H

Lt SV W

Rt SV L

Rt SV H

Rt SV W

Testicle : Lt Testicle L

Lt Testicle H

Lt Testicle W

Rt Testicle L

Rt Testicle H

Rt Testicle W

Ur Diam

### Organ

Lt Thyroid L

Lt Thyroid H

Lt Thyroid W

Lt Thyroid Mass

Rt Thyroid L

Rt Thyroid H

Rt Thyroid W

Rt Thyroid Mass

Isthmus W

Lt Testicle L

Lt Testicle H

Lt Testicle W

Rt Testicle L

Rt Testicle H

Rt Testicle W

Lt Breast Mass

Rt Breast Mass

### Cardiology

Cardiology(2D): LA Major

RA Major

LV Major

RV Major

AV Diam

PV Diam

MV Diam

TV Diam

AV A

TV A

Cardiology(M): LA Diam

LVIDd

LVIDs

RVDd

RVDs

LVPWd

LVPWs

RVAWd

RVAWS

AoDiam

AoAscDiam

Ao Isyhmus

MV E Amp

MV A Amp

Distance

Time

Heart Rate

EF Slope

### Obstetrics (Q KEY)

Tokyo: BPD

FL

CRL

AC

GS

TIBIA

ULNA

CER

NT



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# ZONCARE

## ZONCARE-i50

Best choice for B/W Ultrasound System

NF  
PL  
AF  
AFI: AFI1  
AFI2  
AFI3  
AFI4  
AFI Calculate  
YS  
EFW: BPD  
APTD  
TTD  
FL  
LMP(YY/MM/DD)  
Average EDD  
Average EFW

**Hadlock: BPD**

FL  
CRL  
HC  
AC  
TIBIA  
ULNA  
CER  
NT  
NF  
PL  
AF  
AFI: AFI1  
AFI2  
AFI3

AFI4  
AFI Calculate  
YS  
EFW: BPD,FL,AC,HC  
EFW Calculate  
BPD,FL,AC  
EFW Calculate  
FL,AC,HC  
EFW Calculate  
FL,AC  
EFW Calculate  
LMP(YY/MM/DD)  
Average EDD  
Average EFW

**China: BPD**

FL  
HC  
AC  
TIBIA  
ULNA  
CER  
NT  
NF  
PL  
AF  
AFI: AFI1  
AFI2  
AFI3  
AFI4  
AFI Calculate

YS  
LMP(YY/MM/DD)  
Average EDD  
Average EFW

**JSUN 2001: BPD**

FL  
CRL  
AC  
TIBIA  
ULNA  
CER  
NT  
NF  
PL  
AF

AFI: AFI1  
AFI2  
AFI3  
AFI4  
AFI Calculate

YS  
LMP(YY/MM/DD)  
Average EDD  
Average EFW

**TODA196: BPD**

FL  
CRL  
AC  
TIBIA  
ULNA



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# ZONCARE

## ZONCARE-i50

Best choice for B/W Ultrasound System

CER

NT

NF

PL

AF

AFI: AFI1

AFI2

AFI3

AFI4

AFI Calculate

YS

LMP(YY/MM/DD)

Average EDD

Average EFW

HAD84: BPD

HC

AC

TIBIA

ULNA

CER

NT

NF

PL

AF

AFI: AFI1

AFI2

AFI3

AFI4

AFI Calculate

Shepard: BPD, AC

EFW Calculate

### System Inputs & Outputs

#### USB(2) :

Connect to Devices that Abide by the  
USB Protocol

#### Video:

Output video signals,used to connect  
video, printers,ultrasound workstation, ect;

#### VGA Port:

Serial port;

#### Ethernet Port:

Network ports ,used to connect the network  
or other DICOM protocol equipment;

#### Equipotential:

Balance the protective grounded potential;

#### DC IN:

DC-19V

#### Power Switch:

Turn on/off the system power

### Standard Package

Main Unit

One probe as standard

Power cord/grounding cable

Fuse (2)

User's Manual

Coupling Gel (0.25L)

### Optional Accessories

Convex Array Probe UT-C-3.5

Linear Array Probe UT-L-7.5

Transvaginal Probe UT-C-6.5

Micro-convex Probe UT-C-3.5-R20

Micro-convex Probe UT-C-5.0-R20

USB disk

Suitcase

Lithium battery

Pedal Switch

Biopsy

Trolley

### Certificates

#### Quality Standards

ISO9001

ISO13485

#### CE Declaration

ZONCARE-i50 has been assessed with  
respect to the conformity assessment  
procedure described in Article 11.3.a and  
Annex II excluding section 4 (Module H) of  
Council Directive 93/42/EEC on Medical  
Devices, as amended, and found to comply  
(Notified Body No.:2460)

Zoncare Confidential  
Version 1.0 July 2018



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**i50** Full Digital B/W  
Ultrasound Machine

**zoncare** Wuhan Zoncare Bio-medical Electronics Co., Ltd.  
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 Tel: +86-27-777 6203 Fax: +86-27-777 6215  
 Email: info@zoncare.com <http://www.zoncare.com>  
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 without prior notice.

**zoncare**



- Exclusive employ double waveform imaging technology
- Outstanding portable model, compact and streamlined design
- Transducer auto-freeze protection
- Biopsy function, THI, SRI, TSI, Smooth
- Auto Optimize and Q Guide
- All-round adjusting knob, efficient and fast
- Support image magnification and full screen display
- Support multiple measurement software package
- Support PW mode and spectrum full screen display
- Support multiple data transmission interface
- Auto-generation BMP format report, support USB import and export.
- Nonuse any special software to read or print on PC
- Optional laser printer can print the generated report



Light-weight 7.5kg

12" Medical LCD Monitor with 90 degrees rotation

2 Probe(s) USB Ports

Printer: customized trolley

Optional: optional

Automated Probe connectors

Probe Holder

Probe

Single Patient Keyboard

Backup Battery

Optional

Figure 1 displays nine ultrasound images arranged in a 3x3 grid, illustrating various Doppler and M-mode techniques. The images are labeled as follows:

- CCA—PW (Common Carotid Artery - Pulsed Wave Doppler)
- CCA—B mode (Common Carotid Artery - B-mode)
- Vertebral artery—PW (Vertebral Artery - Pulsed Wave Doppler)
- Portal Vein—PW (Portal Vein - Pulsed Wave Doppler)
- Palmar Vessels—PW FSI (Palmar Vessels - Pulsed Wave Doppler with Flow Strain Index)
- Palmar Vessels—PW (Palmar Vessels - Pulsed Wave Doppler)
- M mode (M-mode)
- Fetal Heart - PW (Fetal Heart - Pulsed Wave Doppler)
- Umbilical Cord - PW (Umbilical Cord - Pulsed Wave Doppler)
- Left liver—B mode (Left Liver - B-mode)
- Liver—B (Liver - B-mode)
- Liver-Kidney (Liver-Kidney)



## High Speed Digital Amalgamator Dental Lab Amalgam Capsule Blend Mixer Professional Dental Equipment



- High energy output - Our digital lab mixer has high energy output while keeping quiet of low vibration
- High Accuracy - This microprocessor-controlled dental amalgamator mixer ensures precise, controllable, extremely precise consistency grinding with a multi-purpose mixer for alloy and glass ionomer capsules
- Adjustable - width with oscillation range, mixing frequency and time of your choice (1-99 seconds). User programmable timer with 1-99 seconds
- High efficiency - For mercury based fillers, please trust the performance of the digital lab mixer. In short, it provides the clinical perfection you need with the ease of use you want
- Stable and no noise - ergonomic design is easy to use, stable, extremely quiet, easy to clean and maintain.

### Product Description

- Voltage: 220V/50Hz
- Absorbed power 200w



- Mixing frequency: 4500 rpm
- Programmable mixing time: 1-99 seconds
- Dimensions: 33\*37\*20cm
- Net weight: 4.3 KG
- Gross weight: 4.5 kg





## Technical Specifications:

**Principle**  
Impedance method for WBC, RBC and PLT counting  
Cyanide free reagent for hemoglobin test

**Parameters**  
21 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC  
3 histograms for WBC, RBC and PLT

**Sample Volume**  
Prediluted mode ≤20μL  
Whole blood mode ≤9 μL

Parameter	Linearity Range	Precision (CV %)	Carryover
WBC(10 <sup>9</sup> /L)	0-300	≤3.5% (4.0-6.9) ≤2.0% (7.0-15.0)	≤0.5%
RBC(10 <sup>12</sup> /L)	0-8.00	≤1.5% (3.50-6.5)	≤0.5%
HGB(g/L)	0-280	≤1.5% (100-180)	≤0.5%
MCV(fL)	0-4000	≤0.5% (70.0-110.0)	≤0.5%
PLT(10 <sup>9</sup> /L)	0-4000	≤5.0% (100-149) ≤4.0% (150-500)	≤1.0%

**Throughput**  
60 samples per hour

**Display**  
10.4 inch TFT Touch Screen

**Multi-language**  
Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia

**Data Storage Capacity**  
Up to 400,000 results including numeric and graphical information

**Communication**  
LAN Port supports HL7 protocol  
Support bi-directional LIS



P/N:ENG-BC-30-210285x4P-20170725  
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**Interface**  
4 USB ports (for external printer, software upgrade, barcode reader, external WIFI, keyboard and mouse), LAN port (1)

**Printout**  
Thermal recorder, 50 mm wide paper, various printouts formats  
External printer optional

**Power Requirement**  
Temperature: 15°C-30°C  
Humidity: 10%-90%  
Air pressure: 70kPa ~ 106kPa

**Power Requirement**  
(100V-240V)±10%  
≤180VA  
(50Hz/60Hz) ±1Hz

**Dimension and Weight**  
Dimension: Depth (410 mm) x width (300 mm) x height (400 mm)  
Weight: ≤20Kg



**mindray**  
healthcare within reach

**mindray**

# BC-30 Auto Hematology Analyzer Minimum Size Maximum Capability



## Gives you confidence in results

Advanced detailed flag information provides warning in case of abnormal cell results. High quality original reagent calibrator and quality controls maintain your work at a high level. We integrate technologies into our products to fulfill your clinical needs, therefore, today, Mindray products and services are used by healthcare facilities in over 190 countries and regions. More and more customers choose Mindray products and trust Mindray's quality.



- CBC+3 DIFF, 21 parameters+3 histograms
- Throughput up to 60 samples per hour
- 10.4 inch TFT touch screen
- Only three reagents needed
- Detailed flag information
- Large storage capacity: up to 400,000 samples
- Sample volume is only 9µL, which is ideal for pediatrics

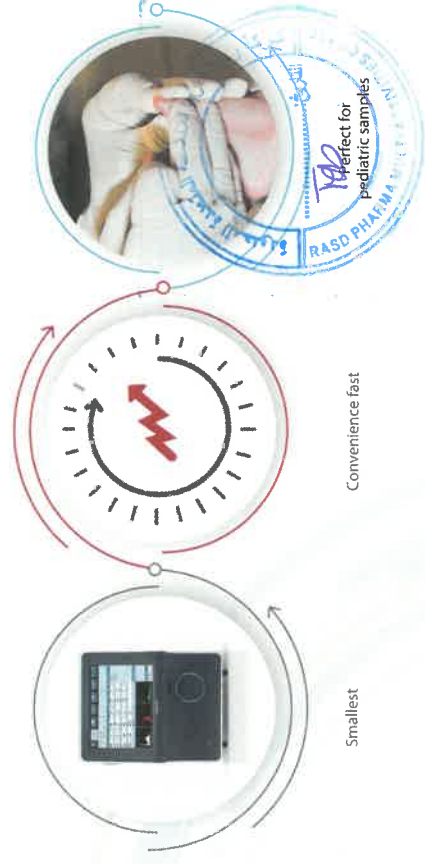
## Gives you less downtime

Quality and user experience are top priorities for Mindray. We design and manage our manufacturing processes in compliance with FDA, ISO and CE. Complete quality control systems in Mindray's manufacturing centers ensure we exceed the most stringent criteria and traceability throughout the entire process. Our professional and responsive support team makes sure your systems are kept at full capability.



## Gives you more time to work

Smart and intuitive software bring your productivity to a new level. The 10.4 inch TFT touch screen makes operations easy and flexible, maximizing your productivity. The incredible 400,000 storage capacity gives you a worry-free solution to managing previous patients' data. The smart software can detect and remove operational errors, as well as run automatic maintenance with a single click.



Smallest

Convenience fast

Perfect for pediatric samples

# SENSA CORE

Healthcare and Diagnostic Products

## ST-200 PLUS Electrolyte Analyzer



RELIABLE EASY TO USE  
EASY TO AFFORD



India's First Electrolyte Analyzer

## Features

- ★ Compact, Economical and Easy to use
- ★ Excellent precision and reliability
- ★ Long life, maintenance-free electrodes
- ★ Automatic sampling, probe wiping and calibration
- ★ Intelligent reagent pack with electronic chip
- ★ Optional battery backup.
- ★ Extremely low cost per test

Parameter	Measuring Range Blood	Reproducibility (CV%)	Measuring Range Urine	Reproducibility (CV%)
Na <sup>+</sup>	20.0 - 250.0 mmol/L	< 1.0%	25.0-1000.0 mmol/L	< 5.0%
K <sup>+</sup>	0.20 - 40.0 mmol/L	< 2.0%	1.0-500.0 mmol/L	< 5.0%
Cl <sup>-</sup>	25.0 - 200.0 mmol/L	< 1.0%	25.0-500.0 mmol/L	< 5.0%
iCa <sup>2+</sup>	1.0 - 20.0 mg/dL	< 2.0%	***	***
Li	0.2-5 mmol/L	< 2.0%	***	***
pH	6-8	< 2.0%	***	***

## Specifications

1. Principle : Direct measurement with ion selective electrode (ISE).
2. Parameter conversion : This functionality allows quick change of analyte.
3. Sample : Whole blood, serum, plasma, CSF and diluted urine.  
for diluted (1:5) urine 500 micro liter.
4. Sample Volume : 130 micro liter.
5. Measuring time : 65 sec.
6. Throughput : 55 Samples / Hour .
7. Data Storage : 1 Lakh Sample, 25000 Urine, 100 QC.
8. Ambient conditions : Temperature: 5°C - 40°C , <85% non-condensing humidity.
9. Output : 128x64 graphics display with Y/N numeric keypad,  
24 column thermal printer, USB port.
10. Input voltage : 100/115-VAC, 50-60 Hz or 220-VAC, 50-60 Hz, 0.75 amp.
11. Size & Weight : 15" W x 12" H x 7.0" D, 6 kg.
12. Battery : Optional for 10hrs backup.

### Electrolyte Analyzer Models

#### Electrode Parameters

BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K	K	K	K	K	K	K	K	K	K
Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
B	B	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa
B	B	B	B	Li	pH	Li	pH	Li	Li
B	B	B	B	B	pH	B	B	B	pH
B	Cl	B	Cl	B	B	B	Cl	Cl	Cl
1	2	3	4	5	6	7	8	9	10

Note: Please Arrange The Electrodes As Per The Parameter Selection



**SENSA CORE**

Medical Instrumentation Pvt. Ltd.

Plot No: 3, Export Promotion Industrial Park, Pashamylaram,  
Medak (Dist), Hyderabad - 502307, Andhra Pradesh, INDIA.  
Tel: +08455 - 223400, www.sensacore.com

# ACCU-CHEK®

## Accu-Chek Performa:



### **Item Description:**

The Accu-Chek Performa blood glucose meter makes testing your blood sugar quick and easy. It's ready to use right out of the box, requiring no set-up. Each meter uses Accu-Chek Performa test strips and an Accu-Chek lancing device. Helpful alerts remind you to test before and after meals, giving you valuable information to support therapy decisions for a healthy active life.

### **Benefits and features:**

- Large, easy-to-read LCD display.
- Used with easy-to-handle Accu-Chek® Performa test strips.
- An Accu-Chek lancing device may be purchased separately.
- Tiny blood sample: only 0.6µL of blood required.
- Fast results in 5 seconds.
- No coding needed, making the testing process quicker and easier.
- No set-up required. It's ready to use right out of the box.
- Set up to 4 pre- or post-meal alerts, so you never forget to test.
- Automatically turns on when you insert a test strip.
- Saves energy by turning off automatically when you're finished testing.
- Time and memory are saved for up to 72 hours if the battery is removed.



# ACCU-CHEK®

## Additional specifications

Serial number:

Unique serial number printed on a label on the device and stored in non-volatile memory

## Measuring principle:

Mutant variant of quinoprotein glucose dehydrogenase (Mut. Q-GDH), electrochemical.

Measuring time: Approximately 5 seconds.

Measuring conditions: Temperature: 8°C to 44°C (46°F to 111°F).

Storage conditions: -25°C to + 70°C (-13°F to +158°F).

Memory capacity: Up to 500 total results, plus 20 control tests.

Test averages: 7, 14, 30 and 90 days.

Data transfer: Infrared (IR).

Dimensions: 94 x 52 x 21 mm.

Weight: 59 g with battery.

Display: Large LCD display with symbols.

Beep tone: Yes (factory setting ON).

Battery: 1 battery, 3V type 2032.

Battery life: Approximately 2,000 measurements.

Auto power off: After 2 minutes undisturbed with strip inserted, or if powered on but left undisturbed for 2 minutes.

Underdosing detection: Yes.

Altitude independence: 0 to 3,094 m (0 to 10,150 ft.).

Sample size: 0.6 µL.

Measuring range: 10 mg/dL – 600 mg/dL, 0.6 mmol/L – 33.3 mmol/L.

Sample types: Capillary, venous, arterial, and neonate.



# ACCU-CHEK®

Sample dosing: Capillary fill function.

Hematocrit range: 10 to 65%.

Test strip stability: 18 months after production date; test strips remain stable up to expiry date printed on test strip vial, even after opening (test strip container must be closed tightly after each test strip is removed).



BIO • TECHNOLOGY  
**boditech**

Advanced compact immuno-analyzer

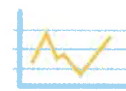
# iCHROMA™ II



Built-in  
printer



Built-in  
multi-timers



On-board QC &  
System check



Battery and  
AC operated



## Reliable Diagnosis of Patients on-the-Spot

### 2 level calibration

- All items provide 2 level calibrators and Controls
- Boditech Calibrators and Controls

### Specifications

276 x 220 x 91 mm  
1,3 kgs  
100 – 240V AC, 50-60Hz  
Internal & external battery

### QC / Calibration

System check cartridge  
Internal & external controls

### Throughput

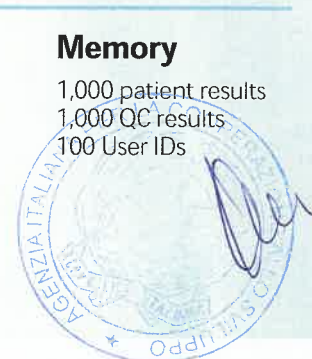
Up to 30 tests/hour

### Interface

7" touch screen  
Built-in thermal printer  
USB port / Ethernet / SD card slot  
LIS/HIS compatible

### Memory

1,000 patient results  
1,000 QC results  
100 User IDs



# ichromα™ Parameters



Category	Item	ichromα™	ichromα™ II * ichromα™ III * ichromα™-10	ichromα™-50	ichromα™ M2	* ichromα™ M3	Sample type	Working range
Cardiac	Tn-I	•	•				S/P	0.1-50.0 ng/mL
	Tn-I Plus		•				WB/S/P	0.01-15 ng/mL
	CK-MB	•	•				WB/S/P	3-100 ng/mL
	D-Dimer	•	•				WB/P	50-10,000 ng/mL
	NT-proBNP		•	•			WB/S/P	10-30,000 pg/mL
	Myoglobin	•	•				WB/S/P	5-500 ng/mL
	hsCRP	•	•				WB/S/P	0.1-10.0 mg/L
	Cardiac Triple		•				WB/S/P	TnI 0.01-15 ng/mL CK-MB 3-100 ng/mL Myoglobin 5-500 ng/mL
Cancer	ST2		•	•			WB/S/P	3.1-200 ng/mL
	PSA	•	•				S/P/WB	0.1-100.0 ng/mL (WB:0.5-100.0 ng/mL)
	PSA Plus		•				WB/S/P	0.07-50 ng/mL
	AFP	•	•				WB/S/P	5-350 ng/mL
	AFP Plus		•				WB/S/P	0.5-350 ng/mL
	CEA	•	•				S/P	1-500 ng/mL
Diabetes	CEA Plus		•				S/P	0.5-200 ng/mL
	iFOB Neo	•	•	•			Feces	25-1,000 ng/mL
	HbA1c	•	•				WB	(NGSP) 4-15 %
Hormone	Microalbumin	•	•				Urine	2-300 mg/L
	Cystatin C	•	•				S/P	0.1-7.5 mg/L
	TSH	•	•				S/P	0.1-100.0 µIU/mL
	TSH Plus		•				WB/S/P	0.1-50.0 µIU/mL
	T3	•	•				S/P	0.77-7.70 nmol/L
	T4	•	•				S/P	10.23-300.00 nmol/L
	FSH	•	•				S/P	1-100 mIU/mL
	Progesterone	•	•				S/P	4.45-127.20 nmol/L
	β-HCG	•	•				WB/S/P	5-50,000 mIU/mL
	β-HCG Plus		•				WB/S/P	2-5,000 mIU/mL
	LH	•	•				S/P	1-100 mIU/mL
	PRL	•	•				S/P	1-100 ng/mL
	Testosterone	•	•				S/P	1-10 ng/mL
	Cortisol	•	•				WB/S/P	80-800 nmol/L
Infection	AMH		•				S/P	0.02-10 ng/mL
	CRP	•	•			•	WB/S/P	2.5-300.0 mg/L
	PCT	•	•	•			WB/S/P	0.1-100.0 ng/mL
	PCT Plus		•	•			WB/S/P	0.02-50 ng/mL
	ASO	•	•				S/P	25-800 IU/mL
	HBsAg		•				WB/S/P	0-300 COI
	Anti-HBs		•				WB/S/P	0-500 mIU/mL
	Anti-HCV		•				WB/S/P	0-300 COI
	ROTA		•				Feces	qualitative (0-200 COI)
	NORO		•				Feces	qualitative (0-200 COI)
	Rota/Adeno		•				Feces	qualitative (0-200 COI)
	Dengue IgG/IgM		•				WB/S/P	qualitative (0-200 COI)
	Dengue NS1 Ag		•				WB/S/P	qualitative (0-200 COI)
	Influenza A+B		•	•	•		Nasopharyngeal swab	FluA: 1.4 x 10 <sup>3</sup> pfu/mL FluB: 0.5 TCID <sub>50</sub> /mL
	RSV		•	•	•		Nasopharyngeal swab	qualitative
	Influenza A+B/RSV*		•	•	•		Nasopharyngeal swab	FluA: 1.4 x 10 <sup>3</sup> pfu/mL FluB: 0.5 TCID <sub>50</sub> /mL RSV: qualitative
	Strep A		•		•		Pharyngeal swab	4 x 10 <sup>3</sup> cfu/test
	Adeno*		•				Nasopharyngeal swab/ Nasal aspirate	qualitative
	RF IgM	•	•				WB/S/P	8-200 IU/mL
Autoimmune	Anti-CCP Plus		•				WB/S/P	3.5-300 U/mL
	Total IgE	•	•				WB/S/P	1.00-1,000 IU/mL
	Ferritin	•	•				S/P	10-1,000 ng/mL
	Vitamin D	•	•				S/P	8-70 ng/mL
	Calprotectin	•	•	•			Feces	10-1,000 mg/kg
Others	H.pylori SA	•	•				Feces	qualitative

Coming soon

## Low Speed Digital Centrifuge Machine 80-1c



### Product Description:

Laboratory centrifuge

800 Series electric centrifuge is widely used in hospitals, chemical and Biological Chemistry Laboratory for serum, plasma, immune qualitative analysis experiment. Has beautiful shape, large capacity, small volume, complete function. Its performance is stable, the speed is adjustable and can automatically adjust the balance, low temperature, high efficiency and wide applicability and advantages.

### Technical Specification:

CENTRIFUGE	
Model No.	80-1C
Speed	4000rpm
RCF	1430*g
Capacity	6×20ml
Timer	0~60min



# Low Speed Digital Centrifuge Machine 80-1c

## Instruction:

1. Please read the operational manual carefully before using the machine.
2. Place empty centrifugal tube evenly before working, after working 1-2 minutes at the maximum speed, then begin to work if there's no problem.
3. Do not touch the rotor while it is running.
4. Do not operate the machine if the rotor is not stably loaded.
5. Please ask the technician to solve the problem if the wire and the plug are damaged or the electric appliances are in trouble. It will cause quality problem if not using recommended appliances by the manufactured factory.
6. Do not use the machine directly in the sunlight.
7. The value of rated parameters of the power plug offered by the consumer should be more than that of the machine, and it should have well earth connection.
8. Keep it away from high temperature machines.
9. Prevent it from strong collision.
10. Pull out the plug from the socket before changing the fuse.
11. Do not open the centrifugal cover of the machine in order to prevent any damage by outer sundries.
12. Keep it out of reach of children.
13. Do not clean the machine with metal material instead of soft cloths with alkali solution.



## **Biological Microscope XSZ-200**



### **Product Details:**

- **Manufacturer:** T.M ALSHARIF.
- **Country of Origin:** CHINA.
- **Model Number:** XSZ-200
- Ergonomics design, Interpapillary distance range is 48-75mm and eyepiece tube can be rotated in 360°.
- Easy to change fuse, and new design collector, much lighter.
- **Magnification:** >1000X
- **Type:** Biological
- **Number of Cylinder:** Binoculars
- **Mobility:** Portable
- **Stereoscopic Effect:** Stereoscopic Effect
- **Kind of Light Source:** LED Illumination



**CAREL**

Temperature  
controller

**SECCP**

Comperssor

**Danfoss**

Condensing  
system

**ebmpapst**

Coolingfan

**EMERSON**

Filtration  
system



**36** Years  
1984-2020

**Medical Ultra Low Temperature Refrigeration  
and Laboratory Equipment Manufacturer**

**Shenyang Medical Equipment Factory**

Liaoning Freezerpalace Biotechnology Co., Ltd

Liaoning Yilin Life Science Co., Ltd.

Liaoning Sysmedpalace International Trade Co., Ltd

Liaoning Zhonglin Life Science (Group) Co., Ltd

**Sysmedical**

沈阳市医疗器械厂  
SHENYANG MEDICAL EQUIPMENT FACTORY

**36** Years  
1984-2020

# Blood Bank Refrigerator

Blood Bank refrigerator is the cooling storage for blood in hospital , blood bank station and institute .



**Sysmedical**

沈阳市医疗设备厂  
SHENYANG MEDICAL EQUIPMENT FACTORY



### Accurate temperature control system

Italy CAREL brand temperature control system, display accuracy of 0.1 °C, precise box temperature of  $4 \pm 1$  °C .  
High-resolution temperature calibration function, proofreading in 0.1 °C increments .  
Intelligent control of fan strong refrigeration gas circulation .Safe control system.

### Keyboard lock and password protection .

System failure alarm sound and point code display (high temperature /low temperature / sensor failure .  
Delayed start of self-check at start up and shutdown interval protection .  
Sensor failure, digital disorder, safe and automatic running program .  
Power-off memory function .

### Refrigeration system

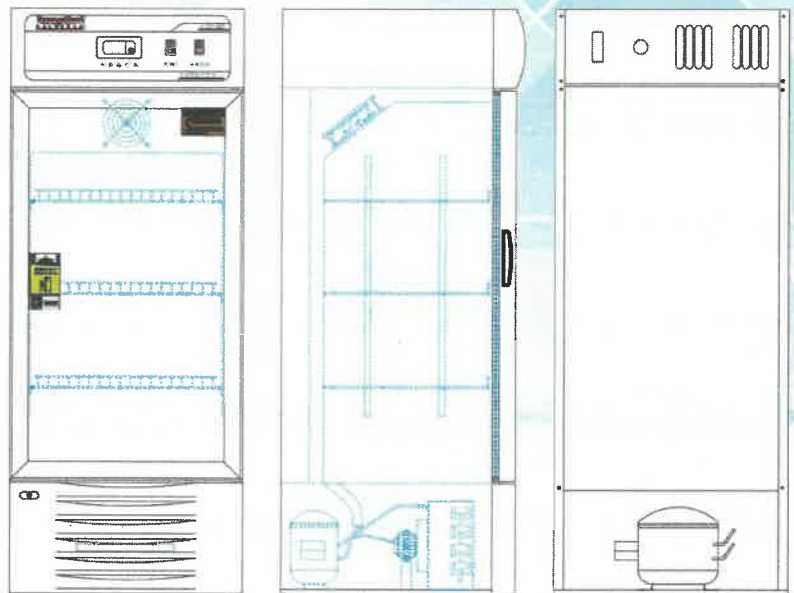
German SECOP brand high efficiency compressor .  
Imported Bi-Sonic fan, low temperature resistance and high humidity resistance .  
Germany EBM brand cooling fan .  
Germany DANFOSS brand filter system .  
American DuPont brand refrigeration refrigerant .

### Humanized design

High-quality steel wire dip adjustable shelf .  
Outdoor anti-condensation technology .  
Large screen digital display .  
Safety door lock design .  
Suitable for wide voltage band of 187-242V .  
Transparent vacuum tempered glass door .  
Energy-saving lighting in the cabinet .

### Optional functions :

1. Temperature recorder. (USB) .
2. Temperature Printer .
3. SMS Remote Alarms system .
4. Alarms for (door open / power failure / low backup battery / low voltage ) .
5. Blood basket .
6. Second doors .



Model	Volume	Inner Temperature	Voltage	Power Consumption
XY-138	138 L	$4 \pm 1$ °C	~220V/50Hz	2.8 kW·h /24h
Input Power	Blood Bag Storage	Climate Type	Alarms Type	Optional Functions
150W	68 (200ml/b)	N	Sound / Light	Recorder/Printer/SMS Alarms
Refrigerant	Net Weight	Chamber	Products Dimension ( D*W*H )	Package Dimension ( D*W*H )
R600a	50 KG	4	500*500*1260 mm	590*590*1360 mm

Shenyang Medical Equipment Factory

Liaoning Freezerpalace Biotechnology Co., Ltd

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Liaoning Zhonglin Life Science (Group) Co., Ltd



18802404791



400-082-8979

sysmed@sysmedical.com

# Sysmedical

沈阳市医疗器械设备厂  
SHENYANG MEDICAL EQUIPMENT FACTORY

**CAREL** Temperature controller  
**SECOP** Compressor  
**Danfoss** Condensing system  
**ebm papst** Cooling fan  
**EMERSON** Filtration system

## SYSMEDICAL OFFERS FUNERAL ROOM

## COMPREHENSIVE PROJECT

Deep Freezer  
Mortuary Refrigerator  
Medical Thermostat  
Anatomy Equipment  
CO<sub>2</sub> Incubator  
Platelet Shaker  
Biochemical Incubator  
Lab Incubator  
Vertical Laminar Flow

ULT Freezer  
Cryo Freezer  
Biomedical Freezer  
Combined Refrigerator & Freezer  
Pharmacy Refrigerator  
Blood Bank Refrigerator  
Vaccine Fridge  
Biosafety Cabinet



400-082-8979



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Shenyang Medical Equipment Factory  
Liaoning Freezerpalace Biotechnology Co., Ltd.  
Liaoning Yilin Life Science Co., Ltd.  
Liaoning Sysmedpalace International Trade Co., Ltd.  
Liaoning Zhonglin Life Science (Group) Co., Ltd.

[sysmed@sysmedical.com](mailto:sysmed@sysmedical.com)

**36** Years  
1984-2020

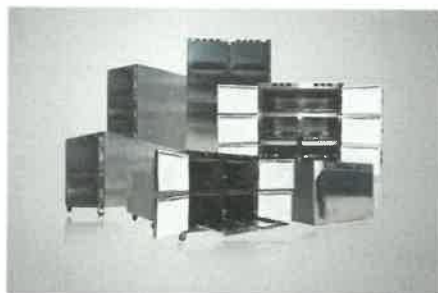
# Sysmedical

沈阳市医疗设备厂  
SHENYANG MEDICAL EQUIPMENT FACTORY

**CAREL** Temperature controller  
**SECOP** Compressor  
**Danfoss** Condensing system  
**ebmpapst** Coolingfan  
**EMERSON** Filtration system

## SYSMEDICAL OFFERS FUNERAL ROOM

### COMPREHENSIVE PROJECT

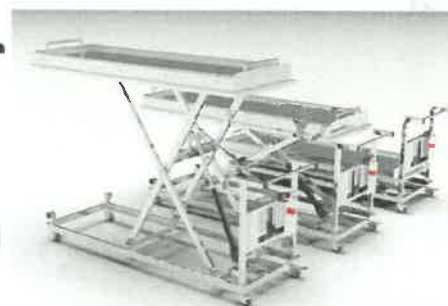


### Mortuary Freezer

1. Danfoss SECOP Compressor
2. Italy CAREL Temperature Controller
3. Double-side cooling
4. Firm tray and casters
5. Separated Doors

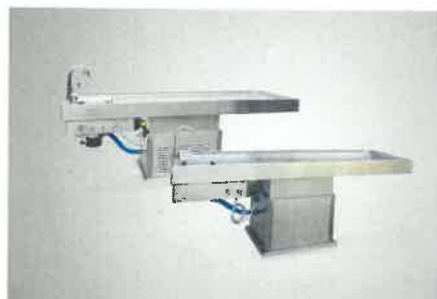
### Mortuary Body Lifter

1. Large capacity lithium battery
2. 200 kgs heavy loading capacity
3. 450 mm to 1600 /2000 mm lifting



### Dissection Table

1. Lifting Functions
2. 45 ° Table rotation
3. HV200 Surface hardness



### Mortuary Trolley

1. 304 stainless steel .
2. Firm casters with brakes
3. Different type cover for trolley



**36** Years  
1984-2020



400-082-8979



18802404791

Shenyang Medical Equipment Factory  
Liaoning Freezerpalace Biotechnology Co., Ltd  
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Liaoning Sysmedpalace International Trade Co., Ltd  
Liaoning Zhonglin Life Science (Group) Co., Ltd

[sysmed@sysmedical.com](mailto:sysmed@sysmedical.com)

# Vortex Mixer

VM-300, VM-300P

## Features :

- Various speed control to the maximum of 3200rpm, provided gentle or vigorous vortexing.
- 2 interchangeable mixing head, i.e. snap on the 26mm diameter rubber cup head for conventional single tube mixing, or a 3" diameter platform pad for multiple tubes and one flask mixing.
- 2-mode operation features "TOUCH" for intermittent operation, or "SWITCH" activated operation at the flip of a switch for continuous mixing.
- Stirring intensity can be controlled in "TOUCH" mode by applying the pressure to the mixing pad.
- User-friendly design capable of sustaining to prevent mixer from slipping and creeping due to vibration.

## Specifications :

Model	VM-300	VM-300P
Dimension (±5mm)	130 x 175 x 180mm	139 x 153 x 147mm
Eccentric Ø	5.6mm	4.4mm
Operating Modes	Touch / Switch	Touch / Switch
Speed (single tube)	3150rpm approx.	3200rpm approx.
Standard accessory	Single tube head	Single tube head
Optional accessory	3" head only	Various head cups
Power source	115V or 230V, 50 or 60Hz	115V or 230, 50 or 60Hz
Net weight	5.0kg	3.8kg



VM-300



VM-300P

## Optional accessories for VM-300P

Catalogue #	VM-3001	VM-3002	VM-3003	VM-3004
Dimension	Ø25.4mm ( 1" )	Ø210mm	Ø210mm	Ø 83mm
Material	Polyurethane	Formed PE	Formed PE	NBR rubber
Capacity	Single tube	1.5/3.0ml x 30 0.5ml x 30 tube	Micro-plate 96 wells	Flasks Max 83mmØ



Head: VM-3002



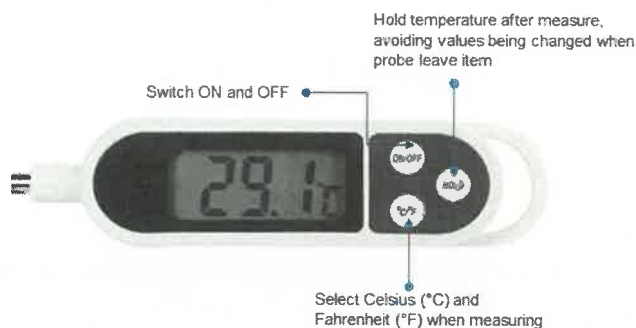
## Needle Probe Digital Thermometer

### Introduction:

This pen style digital thermometer is characterized at multi-usage, low power consumption, high stability, high accuracy, compact structure, easy operating it is much suitable for measuring temperature refrigeration, kitchen and industrial lab etc.

### Main Features:

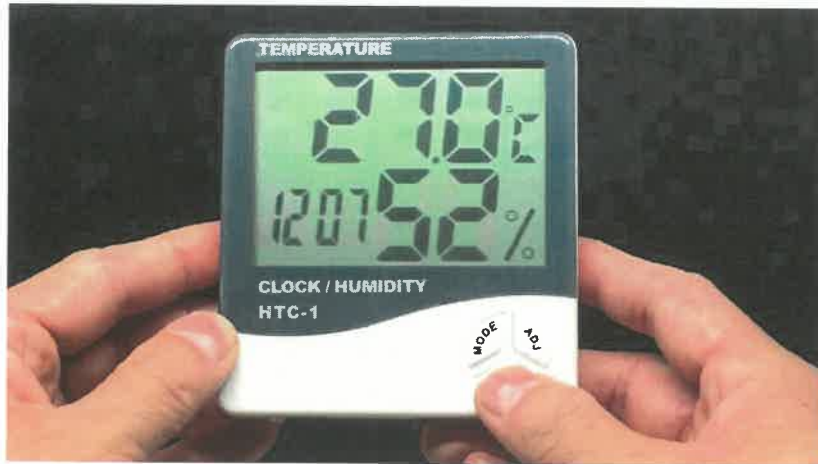
- ▶ Large screen, easy to read, LCD display, stable
- ▶ Pen type stainless steel structure, comfortable buttons, operate easily
- ▶ High quality sensor, measured fast
- ▶ Widely used in measuring temperature at refrigeration, heating food processing & kitchen, school and industrial lab etc.
- ▶ With hold function, you can freeze the measured value
- ▶ Low power consumption, high stability, high accuracy
- ▶ Compact structure, easy to operate



### Specifications:

Temperature Range	: -50°C to +300°C or -58°F to +572°F
Resolution	: 0.1°C or 0.1°F
Accuracy	: ± 1°C or ± 1 °F
Optional Temperature Unit	: °C / °F
Material	: 304 Stainless Steel
Buttons	: ON/OFF, °C/°F, HOLD
Power Supply	: 1 x 1.5V LR44/AG13 battery (included)
Power Saving	: Auto power off after 15 minutes Data hold function
Weight	: 20g Display Size:20cm*35cm / 7.87" *13.78" (Approx.)
Total Length	: 24.5cm/ 9.64" (Approx.) Probe Length: 14.5cm/ 5.7" (Approx.)

# HTC-1 Clock / Humidity & Temperature Digital LCD Instructions



- Brand Pixel
- Special Feature High Accuracy
- Outer Material Plastic
- Shipping within 24hr
- Temperature range:  $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ . ( $14^{\circ}\text{F} \sim +122^{\circ}\text{F}$ ).
- Humidity range: 10%~99%RH.
- Resolution: temperature:  $0.1^{\circ}\text{C}$ ( $0.1^{\circ}\text{F}$ ), humidity: 1% RH.
- Accuracy: temperature:  $\pm 1^{\circ}\text{C}$ ( $1.8^{\circ}\text{F}$ ), humidity:  $\pm 5\% \text{RH}$  (40%~80%).

## Specifications:

Brand Name	Pixel
Model Number	HTC-1



<b>Part Number</b>	HTC-1
<b>Power Source Type</b>	Battery Powered
<b>Special Features</b>	High Accuracy
<b>Specification Met</b>	ISO 9001





With a high-resolution graphic display and intuitive features, Solis analytical balances provide an outstanding solution for a variety of lab applications. Versatile and resilient, the Solis is ideal for research and quality assurance labs; science education; precision counting; and production and manufacturing applications needing precision results. The Solis keypad is simple to use, with easy-to-read buttons and helpful navigation arrows for uncomplicated operation.

## Superb performance and simple operation for demanding laboratories



### Features

- High-resolution graphic display is amply sized for clear visibility
- Level indicator and adjustable feet ensure proper balance setup for optimum weighing results
- Security slot for optional Kensington-type lock and cable to help prevent theft
- Large, grade 304 stainless steel pan allows easy cleaning
- RS-232 interface is available to provide speedy connection to computers and printers
- External calibration allows for verification and adjustment with weights
- Selectable digital filtering helps minimise effects of vibration and disturbances
- Printouts include date and time for data tracking within Good Laboratory Practices (GLP) guidelines
- Multilingual display allows use in many different countries
- Checkweighing with audible alarm
- Parts counting with preset sample sizes
- AC adapter included

### Applications

- Weighing
- Parts counting
- Percentage weighing
- Checkweighing
- Dynamic / animal weighing
- Density determination
- Formulation
- Peak hold

### About ADAM:

For more than 45 years, professionals worldwide have relied on Adam Equipment for an extensive selection of dependable and affordable weighing equipment. Adam provides the right balance of speed, performance and value.



## Product Details

Model	SAB 125i	SAB 225i	SAB 124e	SAB 224e	SAB 314e	SAB 124i	SAB 224i	SAB 314i	SAB 414i	SAB 514i
Capacity	62g / 120g	82g / 220g	120g	220g	310g	120g	220g	310g	410g	510g
Readability	0.01mg/ 0.1mg	0.01mg/ 0.1mg	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g
Repeatability (S.D.)	0.03mg/ 0.1mg	0.05mg/ 0.1mg	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g	0.0001g	0.35mg	0.35mg
Linearity (+/-)	0.08mg / 0.2mg	0.1mg / 0.2mg	0.0003g	0.0003g	0.0004g	0.0003g	0.0003g	0.0004g	0.0005g	0.0005g
Minimum Weight (USP, typical)	10mg	10mg	10mg	10mg	10mg	10mg	10mg	10mg	10mg	10mg
Pan Size	80mm ø									
Weighing Units	g, mg, lb, oz, ct, GN, dwt, mm, ozt, T, tl.H, tl.S, tl.T, custom unit									
Stabilization Time (sec)	6		4							
Interface	RS-232									
Calibration	Internal automatic calibration		External calibration			Internal automatic calibration				
Display	Graphic display with 15mm high digits									
Power Supply	24V 50/60Hz 500mA adapter									
Operating Temperature	10° to 30°C / 50° to 86°F									
Housing	ABS plastic									
Draft Shield	192x195x230mm									
Overall Dim.	224x374x338mm									
Net Weight	7kg		6.7kg			7kg				

### Accessories

#### Item number Description

104008036 .....Anti-vibration table  
 1060014262 .....Density kit for balance up to 0.001g readability  
 3012014259 .....In-use cover  
 1120011156 .....ATP thermal printer  
 3126011263 .....ATP thermal printer paper  
 3126011281 .....ATP thermal printer paper (pack of 10)  
 3014011014 .....RS-232 cable M-F  
 700100046 .....Kensington-type lock and cable  
 600002028 .....AdamDU Data Collection Program  
 700660290 .....Calibration certificate  
 700100410 .....ABI-1 Ioniser  
 700100207 .....E2 1g to 200g calibration weight set  
 700100022 .....E2 100g calibration weight  
 700100023 .....E2 200g calibration weight  
 700100419 .....E1 1mg - 50g Calibration Weight Set  
 700100420 .....E1 1mg - 100g Calibration Weight Set  
 700100421 .....E1 1mg - 200g Calibration Weight Set  
 700100398 .....E1 5g Calibration Weight  
 700100399 .....E1 10g Calibration Weight  
 700100400 .....E1 20g Calibration Weight  
 700100401 .....E1 50g Calibration Weight  
 700100026 .....E2 1mg - 200g calibration weight set

### Key Accessories



#### ATP thermal printer

Easy-to-use features combined with quick set-up equals a truly versatile thermal printer. A single push-button feed key and three easy-to-read LED indicators make operation simple.



#### AdamDU data collection program

Adam DU software connects a balance to the laboratory network, helping to achieve seamless data collection, transfer and analysis. DU features an easy-to-use interface with a main command window, allowing users to quickly collect information from up to eight Adam balances simultaneously using RS-232 or USB connections.



Supplied by



[www.adamequipment.co.uk](http://www.adamequipment.co.uk)

Adam Equipment follows a policy of continuous improvement and reserves the right to change specification and pricing without notice. Adam Equipment's standard terms and conditions of sale apply. Errors and omissions excepted.

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## Aqualine RO-5 reverse osmosis filter



### Product Specification:

- The five-step reverse osmosis filter with a standard layout. The pre-filter module used flasks with double seal.
- Classic reverse osmosis system Aqualine RO-5 is equipped with everything necessary for long-term trouble-free operation:
- Pre-treatment of water is carried out on the block pre-filter standard 10 inches. Removed from the water insoluble impurities, chlorine, hydrogen sulfide and others. The first bulb pre-filter has a transparent glass for visual inspection of the degree of contamination of the first polypropylene cartridge.
- The membrane element of improved performance Aqualine TW30-1812-75 fully obessalivaet water, removing all impurities larger than water molecules (conventional pore size of the membrane - 0.0001mkm).
- Water purification takes place in the coal postfilter. The water is soft, pleasant taste and deprived of foreign gaseous impurities.



**Features:**

- Stair cleaning: 5
- The size of the filter, mm: 145h440h440
- The size of the tank, mm: 280x400
- Volume of storage tank: 12 l
- Productivity, l / day: 285l
- Operating Temperature, ° C: 4-40
- Working pressure, bar: 3 - 6
- Mineralizer: no
- Boost Pump: no





**Ningbo Chongba Water Purification Technology Co.,LTD**

Address: Fuhai Industry Zone, Ningbo City, Zhejiang, China  
Mobile/Wechat:008618067528382 Email:yuchuhong@aquasupreme.cn

## RO TANK SERIES CATALOG



## PRODUCT 1

# ROTK-3.2S

EVERLASTING PURE



Parameter		Comments
Model	ROTK-3.2S	3.2 Gallon
Input Water Quality	$\leq 10\text{ppm}$	Input water must be purified
Maximum Working Pressure	$\leq 0.5\text{MPa}$	Working Pressure under normal operation condition
Working Temperature Range	1-45°C	N/A
Screw Thread Size of Faucet	1/4 inch	NPT screw thread is available
Height	376±1mm	Measured from faucet
Diameter	230±1mm	Maximum diameter at the middle of tank
Weight	2.3kg±0.2kg	Tank only
Weight after Packing	2.5kg±0.2kg	Tank with carton
Prest Pressure	5-10psi	Around 7.0psi
Volume	>6.0L	Water pressure $\geq 0.25\text{MPa}$
Compression Resistance	>2.5MPa	Collapse test
Static Pressure Maintaining	1.0MPa/24H	Air leaked $\leq 10\%$
Dynamic Water Hammer	100,00 Times	Test pressure 0-0.45MPa



## PRODUCT 2

# ROTK-4.0S

EVERLASTING PURE



Parameter		Comments
Model	ROTK-4.0S	3.2 Gallon
Input Water Quality	$\leq 10\text{ppm}$	Input water must be purified
Maximum Working Pressure	$\leq 0.5\text{MPa}$	Working Pressure under normal operation condition
Working Temperature Range	1-45°C	N/A
Screw Thread Size of Faucet	1/4 inch	NPT screw thread is available
Height	393±1mm	Measured from faucet
Diameter	267±1mm	Maximum diameter at the middle of tank
Weight	2.8kg±0.3kg	Tank only
Weight after Packing	3.2kg±0.3kg	Tank with carton
Prest Pressure	5-10psi	Around 7.5psi
Volume	>9.0L	Water pressure $\geq 0.25\text{MPa}$
Compression Resistance	>2.5MPa	Collapse test
Static Pressure Maintaining	1.0MPa/24H	Air leaked $\leq 10\%$
Dynamic Water Hammer	100.00 Times	Test pressure 0-0.45MPa



## PRODUCT 3

# ROTK-3.2G

EVERLASTING PURE



Parameter		Comments
Model	ROTK-3.2G	3.2 Gallon
Input Water Quality	$\leq 10\text{ppm}$	Input water must be purified
Maximum Working Pressure	$\leq 0.5\text{MPa}$	Working Pressure under normal operation condition
Working Temperature Range	1-45°C	N/A
Screw Thread Size of Faucet	1/4 inch	NPT screw thread is available
Height	346.5±1mm	Measured from faucet
Diameter	251±1mm	Maximum diameter at the middle of tank
Weight	2.08kg	Tank only
Weight after Packing	2.3kg	Tank with carton
Prest Pressure	6-8psi	Around 7.0psi
Volume	$\geq 6\text{L}$	Water pressure $\geq 0.25\text{MPa}$
Compression Resistance	$> 2.2 \pm 0.2\text{MPa}$	Collapse test
Static Pressure Maintaining	1.0MPa/24H	Air leaked $\leq 10\%$
Dynamic Water Hammer	100.00 Times	Test pressure 0-0.45MPa



## PRODUCT 4

# ROTK-4.0G

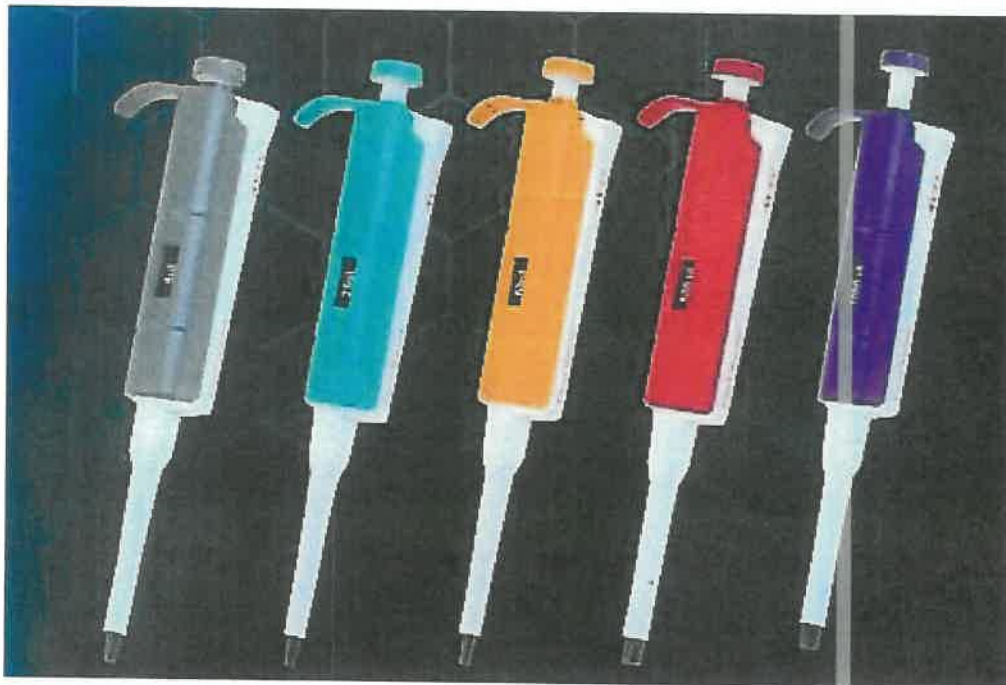
EVERLASTING PURE



Parameter		Comments
Model	ROTK-4.0G	4.0 Gallon
Input Water Quality	$\leq 10\text{ppm}$	Input water must be purified
Maximum Working Pressure	$\leq 0.5\text{MPa}$	Working Pressure under normal operation condition
Working Temperature Range	$1-45^{\circ}\text{C}$	N/A
Screw Thread Size of Faucet	1/4 inch	NPT screw thread is available
Height	$3403 \pm 1\text{mm}$	Measured from faucet
Diameter	$275 \pm 1\text{mm}$	Maximum diameter at the middle of tank
Weight	3.0kg	Tank only
Weight after Packing	3.4kg	Tank with carton
Prest Pressure	6-8psi	Around 7.0psi
Volume	$\geq 9.0\text{L}$	Water pressure $\geq 0.25\text{MPa}$
Compression Resistance	$> 2.5\text{MPa}$	Collapse test
Static Pressure Maintaining	1.0MPa/24H	Air leaked $\leq 10\%$
Dynamic Water Hammer	100.00 Times	Test pressure 0-0.45MPa



## MICROPIPETTES



### Features:

1. **AVIS** pipettes are color coded for easy identification.
2. Click stop digital system, click sound at each increment during volume settings ensures no unwanted volume alterations during pipetting.
3. Ergonomic lightweight & soft plunger movement provides comfort & minimizes hand fatigue.
4. Long Service assured from AVIS pipettes as the materials used in various parts offers durability & long-life.
5. Easy volume setting by simply turning the plunger.
6. High accuracy & precision guaranteed.
7. Autoclavable Tip Cone.
8. Tool kit provided as standard supply for in-house servicing & re-calibration.
9. Each pipette has its individual sr. no. & a calibration report is enclosed with each as pre-dispatch quality-check.



**ANNEX IV: Budget breakdown (Model financial offer)**

Page No 1 [of...]

**PUBLICATION REFERENCE: 8643078**      **NAME OF TENDERER: Rasd Pharma Multi Activities Co.Ltd**

A	B	C	D	E
LOT NUMBER	QUANTITY	SPECIFICATIONS OFFERED (INCL BRAND/MODEL)	UNIT COSTS WITH DELIVERY DDP <sup>1</sup> SUDAN [EUR]	TOTAL [EUR]
<b>1</b>		Medical Furniture, Medical Device, Medical Equipment, Surgical inox set		
CIG_93192475E8		<i>Medical Furniture</i>		
	3	04-BWG Bed, ward, General Medicine, w/mattress	€ <b>419.00</b>	€ <b>1,257.00</b>
	16	04-CAB Cabinet, Bedside	€ <b>104.00</b>	€ <b>1,664.00</b>



<sup>1</sup> DDP (Delivered Duty Paid) Incoterms 2020 International Chamber of Commerce <http://www.iccwbo.org/incoterms/>

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	3	04-CHB Chair, blood/sample collection	€ 319.00	€ 957.00
	3	04-COG Couch, Gynaecological 3	€ 230.00	€ 690.00
	20	04-FOR Folding screen room dividers 20	€ 114.00	€ 2,280.00
	9	04-IVP IV Pole, 2 hooks 9	€ 34.50	€ 310.50
	3	04-TRIO1 Trolley, Inox, Operating Room, 50 x 70	€ 104.00	€ 312.00
	3	04-TRIO2 Trolley, Inox, Operating Room, 90 x 60	€ 205.00	€ 615.00
	9	04-XRW X-RAY, Film viewer	€ 228.00	€ 2,052.00
		<b>Medical Device</b>		
	3	MDD32 Hammer	€ 8.00	€ 24.00
	3	MDD09 Ophthalmoscope/Otoscope	€ 171.00	€ 513.00



	4	MDD36 Oxygen, Cilinder, w regulator	€ 340.00	€ 1,360.00
	1	MDD38 Retinoscope	€ 736.00	€ 736.00
	9	MDD14 Sphygmomanometer, Adul, Pediatric	€ 36.50	€ 328.50
	9	MDD12 Stethoscope, (dualHead)	€ 22.00	€ 198.00
	5	MDD23 Stethoscope, fetal	€ 11.40	€ 57.00
	15	MDD13 Thermometers, Electronic, Infrared, Skin	€ 23.00	€ 345.00
	15	MDD28 Torch for eye examination	€ 5.70	€ 85.50
	1	MDD35 Trial Lens Sets, Optalmic	€ 1,000.00	€ 1,000.00
	1	MDD07 Weightening System, infant	€ 114.00	€ 114.00
	8	MDD08 Weighting System, Adult, with heght mes	€ 249.00	€ 1,992.00
		<b>Medical Equipment</b>		



	3	02-AER Aerosol Generators	€ 246.00	€ 738.00
	1	02-UDE Dental Unit	€ 6,023.00	€ 6,023.00
	3	02-LISB Lights, Surgical/examination, mobile, battery	€ 137.00	€ 411.00
	1	02-SSUG Scanning System, Ultrasonic, General Purpose	€ 4,000.00	€ 4,000.00
		<b>Surgical inox set</b>		
	3	10-077 Drum, sterilizing Inox Inox, Large	€ 50.18	€ 150.53
	3	10-077 Drum, sterilizing Inox Inox, Medium	€ 41.05	€ 123.16
	3	10-077 Drum, sterilizing Inox, Small	€ 27.37	€ 82.11
	3	06-070 Forceps, Desmarres Chalazion	€ 22.81	€ 68.42
	6	09-054 Kidney Dish, Inox, Large, wout/ Lid	€ 12.54	€ 75.26
	6	09-054 Kidney Dish, Inox, Medium, wout/ Lid	€ 10.26	€ 61.58



	6	09-054 Kidney Dish, Inox, Small, wout/ Lid	€ 5.70	€ 34.21
	3	09-049 Retractor, Vaginal, Sim	€ 22.81	€ 68.42
	1	06-053 Set, Delivery	€ 45.61	€ 45.61
	3	06-150 Set, Dental, Basic	€ 312.00	€ 936.00
	3	06-055 Set, Dressing	€ 79.82	€ 239.47
	3	06-026 Set, Gynecological examination	€ 27.37	€ 82.11
	3	06-036 Set, Small Fragment/foreign Bodies	€ 57.02	€ 171.05
	6	06-059 Tray, Instrument, Inox	€ 61.58	€ 369.47
		INSTALLATION, TRAINING AND COMMISSIONING	INCLUDED	
		WARRANTY	(INCLUDED)	
		<b>GRAND TOTAL FOR LOT 1</b>	<b>€</b>	<b>30,569.90</b>
	OPTIONAL	AFTER SALE SERVICE FOR 1 YEAR (AFTER WARRANTY)		



LOT NUMBER	B	C	D	E
	QUANTITY	SPECIFICATIONS OFFERED (INCL BRAND/MODEL)	UNIT COSTS WITH DELIVERY DDP2 SUDAN [EUR]	TOTAL [EUR]
<b>2</b>		<b>LABORATORY EQUIPMENT</b>		
CIG_9319254BAD	2	03-AMA Amalgamator, dental	€ 199.00	€ 398.00
	1	03-ANCL Analyzer, Clinical Chemistry	€ 5,600.00	€ 5,600.00
	2	03-ANELC Analyzer, Electrolytes	€ 3,300.00	€ 6,600.00
	2	03-ANGL Analyzer, Glucose, Whole Blood	€ 57.00	€ 114.00
	2	03-ANH Analyzer, Hormonal test	€ 3,600.00	€ 7,200.00
	1	03-CET Centrifuge, Tabletop, High Speed	€ 149.00	€ 149.00
	1	03-MICL Microscope, light	€ 310.50	€ 310.50
	3	03-PIPS Pipette, Automatic, Set	€ 25.50	€ 76.50
	1	03-REF4 Refrigerator, drugs/reagents, 170 L	€ 3,888.00	€ 3,888.00
	2	03-REF5 Refrigerator, drugs/reagents/vaccines, 700 L	€ 7,466.00	€ 14,932.00
	2	03-SHKV Shaker, Vortex	€ 444.00	€ 888.00



2 DDP (Delivered Duty Paid) Incoterms 2020 International Chamber of Commerce <http://www.iccwbo.org/incoterms/>

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	3	03-FRT Thermometer, Data Logger, w/ display	€	18.50	€	55.50
	6	03-ThDL 6 100,00 € 600,00 €	€	18.50	€	111.00
	3	03-WSAB Weighting System, Analytical Balance	€	3,033.00	€	9,099.00
	3	031-Water Purifying, Reverse Osmosis	€	210.00	€	630.00
		INSTALLATION, TRAINING AND COMMISSIONING	INCLUDED			
		WARRANTY	(INCLUDED)			
		<b>GRAND TOTAL FOR LOT 2</b>	<b>€ 50,051.50</b>			
	OPTIONAL	AFTER SALE SERVICE FOR 1 YEAR (AFTER WARRANTY)				



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**Supply of Biomedical Equipment for three Health Centres in Shambat, al Zuhur e Tiraat Al Bija in  
Khartoum – SUDAN LOT1 Spare Parts**

Item No	Item REF	Item Name	Spare Parts
1	02-AER	Aerosol Genrator	1. Medicine cup. 2. Adult Mask. 3. Child Mask. 4. Tube.
2	02-UDE	Dental unit	1. Hand pieces. 2. Scalar plate. 3. Bottle cup. 4. Air filter reducer. 5. Air reducer. 6. Drain cup. 7. Strong suction. 8. Weak suction. 9. Water filter. 10. Triple syringe.
3	02-LISB	Light surgical, examination, mobile, battery	1. LEDs for surgical examination light.
4	02-SSUG	scanning System, ultrasonic, general purpose	1. Laser printing module. 2. Transducer port extended. 3. Thermal printer. 4. Laser printer. 5. Transducers.c



**Supply of Biomedical Equipment for three Health Centres in Shambat, al Zuhur e  
Tiraat Al Bija in Khartoum – SUDAN LOT2 Spare Parts**

Item No	Item REF	Item Name	Spare Parts
1	03-AMA	Amalgmator , dental	Fuses
2	03-ANCL	Analyzer, Clinical Chemistry	1.RotatinSensor. 2.Samplep be. 3. RBCBath. 4. WBC Bath. 5. HBG Sensor. 6. 3-way Valve. 7. Diluent Sensor
3	03-ANCLC	Analyzer, Electrolytes	1. Rapid Reagents. 2. Serology Reagent.
4	03-MICL	Microscope, light	1. Pre-cleaned blank microscope slides. 2. LED



Date: 23/01/2023

Ref. No.: 001/23

To: Italian Agency for Development Cooperation (AICS)

Subject: Authorization Letter

Dear All,

With reference to Contract No. **8643078 - LOT 1 CIG: 93192475E8 & LOT 2 CIG: 9319254BAD**, issued for the **“Supply of Biomedical Equipment for three Health Centres in Shambat, al Zuhur e Tiraat Al Bija in Khartoum –Sudan**. We authorize Mrs. Tebian Abdelhalim to sign the contract on behalf of **RASD PHRAMA MULTI ACTIVITEIS CO.LTD** and complete all necessary formalities.

Yours Sincerely,

Eng. **Osama Tawfig Mustafa**  
General Manager



Figure 1



SDN

**جمهورية السودان**

PC

## SDN

**P07500891**

Full Name / الاسم الكامل

تبيين عبدالحليم التجانى حمد

**TEBIAN ABDELHALIM ALTIGANE  
HAMAD**

Nationality / الجنسية

الرقم الوطني / National No.

**119-5789-9018**

SDN/ السودان

Place of Birth / مكان الميلاد

Date of Birth / تاريخ الميلاد

**OMDURMAN/ امدرمان**

**22-03-1997**

See [here](#)

تاریخ الصدور / Date of Issue

F/ 441

05-01-2021

Place of issue / مكان الإصدار

Date of Expiry / التاريخ المنته

**KHARTOUM/ الخرطوم**

04-01-2026

Signature of Holder / توقيع حامل القرض:

Tessie

PCSDNTEBIAN<ABDELHALIM<ALTIGANE<HAMAD<<<<<<<

P075008911SDN9703223F2601043<<<<<<<<<<<<<<6





PLEASE COMPLETE AND SIGN THIS FORM AND ATTACH COPIES OF OFFICIAL SUPPORTING DOCUMENTS (REGISTER(S) OF COMPANIES, OFFICIAL GAZETTE, VAT REGISTRATION, ETC.)

## LEGAL ENTITY

PRIVACY STATEMENT

[http://ec.europa.eu/budget/contracts\\_grants/info\\_contracts/legal\\_entities/legal\\_entities\\_en.cfm#en](http://ec.europa.eu/budget/contracts_grants/info_contracts/legal_entities/legal_entities_en.cfm#en)

Please use CAPITAL LETTERS and LATIN CHARACTERS when filling in the form.

### PRIVATE/PUBLIC LAW BODY WITH LEGAL FORM

OFFICIAL NAME ①	Rasd Pharma Multi Activities Co.Ltd		
BUSINESS NAME (if different)	Rasd Pharma Multi Activities Co.Ltd		
ABBREVIATION	N/A		
LEGAL FORM	Private company with limited liability		
ORGANISATION TYPE	FOR PROFIT <input checked="" type="checkbox"/> NON FOR PROFIT <input type="checkbox"/> NGO ② YES <input type="checkbox"/> NO <input type="checkbox"/>		
MAIN REGISTRATION NUMBER ③	23942		
SECONDARY REGISTRATION NUMBER (if applicable)	N/A		
PLACE OF MAIN REGISTRATION	CITY	Khartoum	
	COUNTRY	Sudan	
DATE OF MAIN REGISTRATION	14 DD	12 MM	2017 YYYY
VAT NUMBER	300000456012102		
ADDRESS OF HEAD OFFICE	761, Block 22, Altaif Khartoum Khartoum, Sudan		
POSTCODE	11111	P.O. BOX	N/A
CITY	Khartoum		
COUNTRY	Sudan		
PHONE	+249123309277		
E-MAIL	pharma@rasdtec.com , tebian@rasdtec.com		

DATE 18/09/2022

SIGNATURE OF AUTHORISED REPRESENTATIVE

*Tebian*

STAMP



① National denomination and its translation in EN or FR if existing.

② NGO = Non Governmental Organisation, to be completed if NFPO is indicated.

③ Registration number in the national register of companies. See table with corresponding field denomination by country.





## FINANCIAL IDENTIFICATION

PRIVACY STATEMENT

[http://ec.europa.eu/budget/contracts\\_grants/info\\_contracts/financial\\_id/financial\\_id\\_en.cfm#en](http://ec.europa.eu/budget/contracts_grants/info_contracts/financial_id/financial_id_en.cfm#en)

Please use CAPITAL LETTERS and LATIN CHARACTERS when filling in the form.

### BANKING DETAILS ①

ACCOUNT NAME ②	Rasd Pharma Multi Activities Co.Ltd		
IBAN/ACCOUNT NUMBER ③	100-840-211126-2280669-000		
CURRENCY	EUR		
BIC/SWIFT CODE	BAKHSDDKHX	BRANCH CODE ④	N/A
BANK NAME	BANK OF KHARTOUM		
ADDRESS OF BANK BRANCH			
STREET & NUMBER	Gamhoria street Qaser street intersection.		
TOWN/CITY	Khartoum	POSTCODE	N/A
COUNTRY	Sudan		

### ACCOUNT HOLDER'S DATA

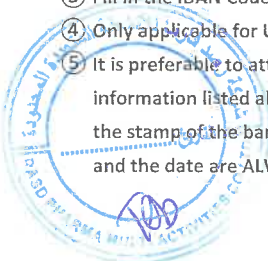
AS DECLARED TO THE BANK

ACCOUNT HOLDER	Osama Tawfig Mustafa Moahmed		
STREET & NUMBER	Altaif Khartoum 11111,Sudan		
	+249912399209		
TOWN/CITY	Khartoum	POSTCODE	N/A
COUNTRY	Sudan		

REMARK	
--------	--

BANK STAMP + SIGNATURE OF BANK REPRESENTATIVE ⑤	DATE 18/04/2023
	SIGNATURE OF ACCOUNT HOLDER (Obligatory)

- ① Enter the final bank data and not the data of the intermediary bank.
- ② This does not refer to the type of account. The account name is usually the one of the account holder. However, the account holder may have chosen to give a different name to its bank account.
- ③ Fill in the IBAN Code (International Bank Account Number) if it exists in the country where your bank is established
- ④ Only applicable for US (ABA code), for AU/NZ (BSB code) and for CA (Transit code). Does not apply for other countries.
- ⑤ It is preferable to attach a copy of RECENT bank statement. Please note that the bank statement has to confirm all the information listed above under 'ACCOUNT NAME', 'ACCOUNT NUMBER/IBAN' and 'BANK NAME'. With an attached statement the stamp of the bank and the signature of the bank's representative are not required. The signature of the account holder and the date are ALWAYS mandatory.





بنك الخرطوم  
Bank of Khartoum  
YOU FIRST

منذ عام  
1913  
SINCE



عضو في شبكة البنوك العربية  
ALMIAWI BRANCH

Branch: .....

## Reference Certificate

فرع: .....

Date: 18/01/2023

**REF/2023/41**

**To: ITALIAN AGENCY FOR DEVELOPMENT COOPERATION(AICS)**

Dear Sir,

**Subject: RASD PHARMA MULTI ACTIVITIES CO.LTD**

**A/C NO: 100052280690026**

This to certify that the above-mentioned account is being maintained at **Bank of Khartoum Almiawee BRANCH** in EUR currency.

We further certify that : **RASD PHARMA MULTI ACTIVITIES CO.LTD** has A relationship with us since 13/07/2020

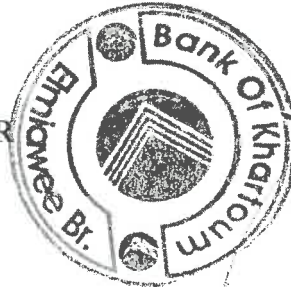
This certificate has been issued at the specific request of customer.

The above information is being communicated to you in strict confidence without any risk and responsibility for error or omission on the part of the bank or its employees, agents and / or informants.

Yours truly

**BRANCH MANAGER**  
**Razan Ibrahim Ali**

*[Signature]*



**BRANCH SUPERVISOR**  
**AHMED OSMAN ADAM**

