FE: 00853/2025/SAM/BABESSI COUNCIL/CRENAM/ AAO

MINISTERE DE LA DÉCENTRALISATION
ET DU DEVELOPPEMENT LOCAL

DELEGATION REGIONALE DU NORD OUEST

DEPARTEMENT DE NGOKETUNJIA

ARRONDISSEMENT DE BABESSI

COMMUNE DE BABESSI

SECRETARIAT GENERALE

MINISTRY OF DECENTRALISATION
AND LOCAL DEVELOPMENT

NORTH WEST REGIONAL DELEGATION

NGOKETUNJIA DIVISION

BABESSI SUB- DIVISION

BABESSI COUNCIL

GENERAL SECRETARIAT

TENDER NOTICE

OPEN NATIONAL INVITATION TO TENDER
N° 06/ONIT/MINDDEVEL/BC/BCITB/PIB/ 2025 OF 15 / 01 / 2025
FOR THE SUPPLY OF MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE, LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE), NGOKETUNJIA DIVISION IN NORTH WEST REGION

1. **Subject of the invitation to tender:**
   Within the framework of 2025 Public Investment Budget, the Mayor BABESSI Council; Project Owner and Contracting Authority hereby launches an Open National Invitation to Tender **SUPPLY OF MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE , LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE.), NGOKETUNJIA DIVISION IN NORTH WEST REGION**

2. **Nature of Supplies:**
   Supplies to be done are as specified on the bill of quantities and cost estimate respectively.

3. **Execution deadline**
   The maximum deadline provided by the Contracting Authority for the execution of the supplies forming the subject of this invitation to tender is **two (02) calendar months**

4. **Lots**
   The suppliess is in single lot.

5. **Estimated cost**
   The estimated cost after preliminary studies is **Fifty million (50,000,000)** ***Francs*** **CFA.**

6. **Participation and origin**
   Participation to this invitation to tender is open to Cameroonian enterprises that are in compliance with the fiscal laws.

7. **Financing**
   Works which form the subject of this invitation to tender shall be financed by the 2025 Public Investment Budget of the MINSANTE.

8. **Bid bond**

Each bidder must include in his administrative documents, a bid bond issued by a first-rate banking establishment approved by the Ministry in charge of finance and whose list is found in document No. 12 of the Tender File, of an amount of ***one million* (1,000,000) *Francs CFA***, valid for thirty (30) days beyond the date of validity of bids. As per article 90 (7) of the Public contract Code (Decree No. 2018/366 OF 20 June 2018), certified cheques or bank cheques are acceptable in the place of bid bond.

9. **Consultation of Tender File:**

The file may be consulted during working hours at the technical service of Babessi Council. Telephone **N^0 670 76 34 71** as soon as this notice is published.

10. **Acquisition of tender file:**

The file may be obtained from the Award service of the BABESSI Council, Telephone **N^0 670 76 34 71** as soon as this notice is published against payment of a non-refundable sum of **sixty five thousand (65,000) F CFA**, payable at the BABESSI Council Municipal Treasury, representing the cost of purchasing the tender file.

11. **Submission of bids:**

Each offer drafted in English or French in 07 (seven) copies including 01 (one) original and 06 (six) copies should reach the Babessi Council premises not later than **21/02/2025 at 10.00 AM** local time and should carry the inscription:

OPEN NATIONAL INVITATION TO TENDER

N° 06/ONIT/ MINDDEVEL /BC/BCITB/PIB/ 2025 OF 15/01/ 2025

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"TO BE OPENED ONLY DURING THE BID-OPENING SESSION"

12. **Admissibility of bids**

Under penalty of being rejected, only originals or true copies certified by the issuing service or administrative authorities (Senior Divisional Officer, Divisional Officers) must imperatively be produced in accordance with the Special Regulations of the invitation to tender.

They must obligatorily be **not older than three (3) months** preceding the date of launching of the tenders or may be established after the signature of the tender notice

Any bid not in compliance with the prescriptions of the Tender File shall be declared inadmissible. This refers especially to the absence of a bid bond issued by a first-rate bank approved by the Minister in charge of Finance.

13. **Opening of bids:**

The bids shall be opened in a single phase. The opening of the administrative documents, the Technical and Financial offers will take place on the **21/02/2025 at 11 AM** local time, at the Conference hall of Babessi Council by the Babessi Council Internal Tenders' Board. Only bidders may attend or be represented by duly mandated persons of their choice.

14. **Evaluation criteria**

The bids shall be evaluated according to the main criteria as follows:

A. **Eliminatory criteria**

1. Absence or insufficient bid bond (outright elimination);

2. Absence or non-conformity of a document in the administrative file
3. False declaration or falsified documents;
4. Incomplete financial file;
5. Omission of a unit price in the financial bid;
6. Deadline for delivery higher than prescribed;
7. Non respect of 75% of essential criteria;
8. External envelope carrying a sign that can identify the bidder;

During the opening session of the bids if a document of the administrative bid is absent or noncompliant, the bidder will be given forty-eight (48) hours to produce or replace the said document else it will be eliminated during the evaluation of the bids. No such document will be accepted after this deadline.

B. Essential criteria

1- General presentation of the tender files;
2- Financial capacity;
3- References of the company in similar achievements;
4- Quality of the personnel;
5- Technical organization of the works;
6- Safety measures on the site;
7- Logistics;
8- Attestation and report of site visit;
9- Special Technical Clauses initialed in all the pages;
10- Special Administrative Clauses completed and initialed in all the pages.

These essential criteria are subject to lower limits, the details of which are spelled out in the Special Regulations of the invitation to tender

15. Award

This evaluation will be done in a purely a purely binary method with a positive (**Yes**) or negative (**No**) with an acceptable minimum of **75%** of the essential criteria taken into account.

The contract will be awarded to the bidder who would have proposed the offer with the lowest amount, in conformity with the regulations of the Tender Documents and having satisfied to **100%** of the eliminatory criteria and at least **75%**of the essential criteria.

Pursuant to justification by bidder, unconvincing abnormally low costing will not be accepted spelled out in the Special Regulations of the invitation to tender of this consultation.

16. Validity of bids

Bidders will remain committed to their offers for ninety (90) days from the deadline set for the submission of tenders.

17. Complementary information

Complementary technical information may be obtained during working hours at the Technical Service of the Babessi Council Telephone **N^{0} (237) 670 76 34 71**

Done at BABESSI on the, 15 JAN 2025

The Project Owner
(Contracting Authority)
THE MAYOR - BABESSI COUNCIL

REPUBLIQUE DU CAMEROUN
REPUBLIC OF CAMEROON
COMMUNE DE BABESSI
THE MAYOR
BABESSI COUNCIL
NGOKETUNJIA DIVISION
NORTH WEST

Metom Mbah Joachim
AGRICULTURAL ENGINEER

Copies:

- MINMAP
- ARMP
- Chairperson of TB
- Notice Board
- File/archive

8. **Bid bond**

Each bidder must include in his administrative documents, a bid bond issued by a first-rate banking establishment approved by the Ministry in charge of finance and whose list is found in document No. 12 of the Tender File, of an amount of ***one million (*1,000,000) *Francs CFA***, valid for thirty (30) days beyond the date of validity of bids. As per article 90 (7) of the Public contract Code (Decree No. 2018/366 OF 20 June 2018), certified cheques or bank cheques are acceptable in the place of bid bond.

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"TO BE OPENED ONLY DURING THE BID-OPENING SESSION"

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They must obligatorily be **not older than three (3) months** preceding the date of launching of the tenders or may be established after the signature of the tender notice

Any bid not in compliance with the prescriptions of the Tender File shall be declared inadmissible. This refers especially to the absence of a bid bond issued by a first-rate bank approved by the Minister in charge of Finance.

13. **Opening of bids:**

The bids shall be opened in a single phase. The opening of the administrative documents, the Technical and Financial offers will take place on the **21/02/2025 at 11 AM** local time, at the Conference hall of Babessi Council by the Babessi Council Internal Tenders' Board. Only bidders may attend or be represented by duly mandated persons of their choice.

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Pursuant to justification by bidder, unconvincing abnormally low costing will not be accepted spelled out in the Special Regulations of the invitation to tender of this consultation.

16. Validity of bids

Bidders will remain committed to their offers for ninety (90) days from the deadline set for the submission of tenders.

17. Complementary information

Complementary technical information may be obtained during working hours at the Technical Service of the Babessi Council Telephone **N⁰ (237) 670 76 34 71**

Done at BABESSI on the, 15 JAN 2025

The Project Owner
(Contracting Authority)
THE MAYOR - BABESSI COUNCIL

REPUBLIC OF CAMEROON
COMMUNE DE BABESSI

Mbah Joachim
AGRICULTURAL ENGINEER

Copies:

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- ARMP
- Chairperson of TB
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REPUBLIQUE DU CAMEROUN
Paix-Travail-Patrie

MINISTERE DE LA DÉCENTRALISATION ET DU DEVELOPPEMENT LOCAL

DELEGATION REGIONALE DU NORD OUEST

DEPARTEMENT DE NGOKETUNJIA

ARRONDISSEMENT DE BABESSI

COMMUNE DE BABESSI

SECRETARIAT GENERALE

REPUBLIC OF CAMEROON
Peace-Work- Fatherland

MINISTRY OF DECENTRALISATION AND LOCAL DEVELOPMENT

NORTH WEST REGIONAL DELEGATION

NGOKETUNJIA DIVISION

BABESSI SUB- DIVISION

BABESSI COUNCIL

GENERAL SECRETARIAT

AVIS D'APPEL D'OFFRES

AVIS D'APPEL D'OFFRES NATIONAL OUVERT N° 06/AONO/MINDDEVEL/BC/BCITB/BIP/ 2025 DU 15/ 01 / 2025 POUR LA FOURNITURE D'EQUIPEMENT MEDICAUX A CERTAINS CENTRES DE SANTE DE LA MUNICIPALITE DE BABESSI (LOT 1 FOURNITURE D'EQUIPEMENT MEDICAUX A CIS BABUNGO, LOT 2: FOURNITURE D'EQUIPEMENT MEDICAUX A CMA BABA 1, LOT 3: FOURNITURE D'EQUIPEMENT MEDICAUX A CIS MBOGHOMBAM -BABA 1, LOT 4: FOURNITURE D'EQUIPEMENT MEDICAUX A CMA BABESSI, AND LOT 5: FOURNITURE D'EQUIPEMENT MEDICAUX A CIS BANGOLAN) ,DEPARTEMENT DE NGOKETUNJIA, REGION DU NORD OUEST

1. **Objet de l'Appel d'Offres**
   Dans le cadre de l'exercice budgétaire 2025, le Maire de la Commune de Babessi, Autorité Contractante lance, un Appel d'Offres National Ouvert pour la fourniture d'équipement médicaux a certains centres de santé de la Municipalité de Babessi (Lot 1 fourniture d'équipement médicaux a CIS Babungo, Lot 2: fourniture d'équipement médicaux a CMA Baba 1, Lot 3: fourniture d'équipement médicaux a CIS Mboghombam -Baba 1, Lot 4: fourniture d'équipement médicaux a CMA Babessi, and Lot 5: fourniture d'équipement médicaux a CIS Bangolan),Département de Ngoketunjia, Region du Nord-Ouest.

2. **Consistance des travaux**
   Les fournitures comprennent notamment come indiquer sur le devis quantitatif et estimatif respectivement.
3.
4. **Délais d'exécution**
   Le délai maximum prévu le Maître d'Ouvrage Délégué pour la réalisation des travaux objet du présent appel d'offres est de **two (02) mois**.
5. **Allotissement**
   Les travaux sont en **un** lot unique.
6. **Coût prévisionnel**
   Le coût prévisionnel des travaux à l'issue des études préalables est de **Cinquante million (50,000,000) francs CFA.**
7. **Participation et origine**
   La participation à cette consultation est ouverte aux entreprises de droit camerounais.
8. **Financement**
   Les travaux objet du présent appel d'offres sont financés par le Budget d'Investissement Publics du Cameroun de l'exercice 2025.

9. **Cautionnement provisoire**

Chaque soumissionnaire doit joindre à ses pièces administratives, une caution de soumission établie par une banque de premier ordre ou une compagne d'assurance agréée par le Ministère chargé des finances et dont la liste figure dans la Pièce13 du DAO, d'un montant de **un million (1,000,000) FCFA** et valable pendant trente(30) jours au-delà de la date originale de validité des offres.

10. **Consultation du Dossier d'Appel d'Offres**

Le Dossier d'Appel d'Offres peut être consulté et obtenu aux heures ouvrables à la Mairie de Babessi, Service de Passation des Marchés **Tel: 670 76 34 71;** dès publication du présent avis.

11. **Acquisition du Dossier d'Appel d'Offres**

Le dossier peut être obtenu aux heures ouvrables à la Mairie de Babessi, Service de Passation **Tel: 670 76 34 71;** dès publication du présent avis, contre présentation d'une quittance de versement de la somme non remboursable de **Soixante-cinq mille (65 000) Francs CFA** à la Trésorerie de la Commune de Babessi.

12. **Remise des offres**

Chaque offre rédigée en français ou en anglais en sept (07) exemplaires dont un (01) original et six (06) copies marquées comme telles, devra parvenir contre récépissé à la Mairie de Babessi, Service de Passation **Tel: 670 76 34 71;** au plus tard le **21/02/2025 à 10** heures locale et devra porter la mention suivante :

AVIS D'APPEL D'OFFRES NATIONAL OUVERT N° 06/AONO/MINDDEVEL/BC/BCITB/BIP/ 2025 DU 15/ 01 / 2025 POUR LA FOURNITURE DES MATERIAUX DE TRANSFORMATION POUR LE CHAMP DE PISCICULTURE DE LA COMMUNE DE BABESSI, DEPARTEMENT DE NGOKETUNJIA, REGION DU NORD OUEST

«A N'OUVRIR QU'EN SEANCE DE DEPOUILLEMENT»

13. **Recevabilité des offres**

Sous peine de rejet, les pièces du dossier administratif requises doivent être produites en originaux ou en copies certifiées conformes par le service émetteur ou une autorité administrative (Préfet, Sous-préfet,…), conformément aux stipulations du Règlement Particulier de l'Appel d'Offres.

Elles doivent dater de moins de trois (03) mois précédant la date originale de dépôt des offres ou avoir été établies postérieurement à la date de signature de l'Avis d'Appel d'Offres.

Toute offre incomplète conformément aux prescriptions du Dossier d'Appel d'Offres sera déclarée irrecevable. Notamment l'absence de la caution de soumission délivrée par une banque de premier ordre ou une compagne d'assurance agréée par le Ministère chargé des Finances.

14. **Ouverture des plis**

L'ouverture des plis se fera en un temps. L'ouverture des pièces administratives et des offres techniques et financières aura lieu **21/02/2025 à 11h00**, heure locale, dans la Salle de Conférence de Mairie de Babessi, par la Commission Interne de Passation de Marchés de la Commune de BABESSI siégeant en présence des soumissionnaires ou de leurs représentants dûment mandatés et ayant une parfaite connaissance du dossier.

15. **Critères d'évaluation**

Les offres seront évaluées selon les principaux critères suivants :

A. Critères éliminatoires

Il s'agit notamment:

1- Absence ou insuffisance de la caution provisoire de soumission (élimination automatique) ;
2- Absence ou non-conformité d'une pièce administrative 48h après ouverture des plis;
3- Fausses déclarations ou pièces falsifiées;

4- Offre financière incomplète ;
5- Omission d'un prix unitaire ;
6- Délaye d'exécution Superior aux délaye impartie.
7- Le non-respect de 75% des critères essentiels ;
8- Enveloppe présentant un signe distinctif;

B - Critères **essentiels**

Les critères relatifs à la qualification des candidats porteront à titre indicatif sur:

1- Présentation générale de l'offre ;
2- Capacité financière ;
3- Références de l'entreprise dans les réalisations similaires ;
4- Qualité du personnel ;
5- Organisation technique des travaux ;
6- Mesures de sécurité sur le site
7- Moyens logistiques ;
8- Attestation et rapport de visite de site

9- Cahier des Clauses Techniques Particulières paraphé à chaque page et signe au denier page avec la mansion : Lu et approuvé;

10- Cahier des Clauses Administratives Particulières complété et paraphé à chaque page et signe au denier page avec la mansion : Lu et approuvé

Les critères essentiels sont soumis à des minima dont le détail est donné dans le Règlement Particulier de l'Appel d'Offres (RPAO).

16. Attribution

Cette évaluation se fera de manière purement positive (oui) ou négative (non) avec un minimum acceptable d'au moins 75% de l'ensemble des critères essentiels pris en compte.

Le marché sera attribué au soumissionnaire qui aura proposé l'offre la moins disant, conforme pour l'essentiel aux prescriptions du Dossier d'Appel d'Offres, ayant satisfait à **100%** des critères éliminatoires et au moins 75% des critères essentiels.

17. Durée de validité des offres

Les soumissionnaires restent engagés par leurs offres pendant 90 jours à partir de la date limite fixée pour la remise des offres.

18. Renseignements complémentaires

Les renseignements complémentaires d'ordre technique peuvent être obtenus auprès de Mairie de BABESSI, Service de Passation, **Tel: 670 76 34 71;**

Fait à BABESSI, le ...15 JAN 2025.....

Le Maire de BABESSI,

REPUBLIQUE DU CAMEROUN
REPUBLIC OF CAMEROON
COMMUNE DE BABESSI
THE MAYOR
BABESSI COUNCIL
NGOKETUNJIA DIVISION
NORTH WEST REGION

Metoh Mbah Joachim
AGRICULTURAL ENGINEER

Copie :

- MINMAP
- ARMP;
- Présidents CPM;
- Affichage.

Document No. 2

GENERAL REGULATIONS OF THE INVITATION TO TENDER

TABLE OF CONTENTS

General Rules of the Invitation to Tender

A. General

Article 1: Scope of the tender

1.1 The Contracting Authority as defined in the Special Regulations of the invitation to tender hereby launches an invitation to tender for the construction of the works described in the Tender File and briefly described in the Special Regulations.

1.2 The bidder retained or the preferred bidder must complete the works within the time- limit indicated in the Special Regulations and which time-limit runs from the date of notification of the Administrative Order.

1.3 In this Tender File, the term "day" means a calendar day.

Article 2: Financing

The source of financing of the works forming the subject of this invitation to tender shall be specified in the Special Regulations.

Article 3: Fraud and Corruption

4.1 The Contracting Authority requires of bidders and contractors the strict respect of rules of professional ethics during the award and execution of public contracts. By virtue of this principle:

a) The following definitions shall be admitted:

i) Shall be guilty of "corruption" whoever offers, gives, requests or accepts any advantage in view of influencing the action of a public official during the award or execution of a contract;

ii) Is involved in "fraudulent manoeuvres" whoever deforms or distorts facts in order to influence the award or execution of a contract;

iii) "Collusive practices" shall mean any form of agreement between two or among several bidders (whether the Contracting Authority is aware or not) aimed at artificially maintaining the prices of bids at levels not corresponding to those resulting from competition;

iv) "Coercive practices" shall mean any form of harm against persons or their property or threats against them in order to influence their action during the award or execution of a contract.

b) Any proposed award shall be rejected if it is proved that the proposed preferred bidder is directly or through an intermediary, guilty of corruption or is involved in fraudulent manoeuvres, collusive or coercive practices for the award of this contract.

4.2 The Minister Delegate at the Presidency in charge of public contracts may, as a precaution, take a decision of exclusion from bidding for a period not exceeding two(2) years against any bidder found guilty of influence peddling, of conflicts of interest, insider trading, fraud, corruption or production of non-genuine documents in the bid, without prejudice to criminal proceedings that may be brought against him

Article 4: Candidates allowed to Compete

4.1 If the invitation to tender is restricted, consultation is addressed to all candidates retained after a pre-qualification procedure.

4.2 Generally, the invitation to tender is addressed to all entrepreneurs, subject to the following provisions:

(a) A bidder (including all members of a group of enterprises and all sub-contractors to the bidder), in accordance with the funding agreement.

(b) A bidder (including all members of a group of enterprises and all sub-contractors to the bidder) must not be in a situation of conflict of interest, subject to disqualification. A bidder shall be judged to be in a situation of conflict of interest if he:

i) Is or was associated in the past with an enterprise (or a subsidiary of this enterprise) which provided consultancy services for the conception, preparation of specifications and other documents used within the scope of contracts awarded for this invitation to tender; or

ii) Presents more than one bid within the context of invitation to tender, except authorised variants according to article 17, where need be; meanwhile, this does not prevent the participation of sub-contractors in more than one bid.

iii) The Contracting Authority or Project Owner has financial interests in the capital in a way as to compromise the transparency of the procedures of award of public contracts.

(c) The bidder must not have been excluded from bidding for public contracts.

(d) A Cameroonian public enterprise may participate in the consultation if it can demonstrate that it is

i) Legally and financially autonomous,

ii) Managed according to commercial laws and

iii) Not under the direct supervisory authority of the Contracting Authority or Project Owner.

Article 5: Building materials, materials, supplies, equipment and authorised services

5.1 Building materials, the contractor's materials, supplies, equipment and services forming the subject of this contract must originate from countries meeting the criteria of origin defined in the Special Regulations of the invitation to tender and all expenditure done within the context of the contract shall be limited to the said building materials, materials, supplies, equipment and services.

5.2 Within the meaning of this 5.1 above, the term "originate" shall designate the place where the goods are extracted, cultivated, produced, manufactured and from where the services originate.

Article 6: Qualification of bidder

6.1 As an integral part of their bid, bidders must:

(a) Submit a power of attorney making the signatory of the bid bound by the bid; and

(b) Provide all information (complete or update information included in their request for pre-qualification which may have changed in the case where the candidates took part in pre-qualification) requested of bidders in the Special Regulations of the invitation to tender, in order to establish their qualification to execute the contract.

Where necessary, bidders should provide information relating to the following points:

i) The production of certified balance sheets and recent turnovers;

ii) Access to a line of credit or availability of other financial resources;

iii) Pending litigations;

iv) Availability of indispensable equipment.

6.2 Bids presented by two or more associated undertakings (joint-contracting) must satisfy the following conditions:

(a) The bid must include all the information listed in article 6(1) above. The Special Regulations must indicate the information to be furnished by the group and that to be furnished by each member of the group;

(b) The bid and the contract must be signed in a way that is binding on all members of the group;

(c) The nature of the group (joint or several) must be specified in the Special Regulations and justified with the production of a joint venture agreement in due form;

(d) The member of the group designated as the representative will represent all the undertakings vis à vis the Project Owner and Contracting Authority with regard to the execution of the Contract;

(e) In case of joint co-contracting, the co-contractors shall share the sums which are paid by the Project Owner into a single account. On the other hand, each undertaking is paid into its own account by the Project Owner where it is joint co-contracting.

6.3 Bidders must equally present sufficiently detailed proposals to demonstrate that they comply with the technical specifications and execution time-limits set in the Special Regulations of the invitation to tender.

6.4 Bidders requesting to benefit from the margin of preference must furnish all the necessary information to prove that they satisfy the eligibility criteria set in article 33 of the General Regulations of the invitation to tender.

Article 7: Visit of works site

7.1 The bidder is advised to visit and inspect the site and its environs and obtain by himself and under his own responsibility, all the information which may be necessary for the preparation of the bid and the execution of the works. The related cost of the visit of the site shall be borne by the bidder.

7.2 The Project Owner shall authorise the bidder and his employees or agents to enter the premises and the land for the said visit but only on the express condition that the bidder, his employees and agents free the Project Owner, his employees and agents of any responsibility that may ensue and indemnify them if necessary and that they shall remain responsible for any deadly or corporal accident, loss or material damages, costs and fees incurred from this visit.

7.3 The Project Owner may organise a visit of the site of the works during the preparatory meeting to establishing the bids mentioned in article 19 of the General Regulations of the invitation to tender.

B. Tender File

Article 8: Content of Tender File

8.1 The Tender File describes the works forming the subject of the contract, sets the consultation procedure of contractors and specifies the terms of the contract. Besides the addendum (addenda) published in accordance with article 10 of the General Regulations of the invitation to tender, it includes the following documents:

Document No. 1. The tender notice;
Document No. 2. The General Regulations of the invitation to tender;
Document No. 3. The Special Regulations of the invitation to tender;
Document No. 4. The Special Administrative Conditions;
Document No. 5. The Special Technical Conditions;
Document No. 6. The schedule of unit prices;
Document No. 7. The bill of quantities and estimates;
Document No. 8. The sub details of unit prices;
Document No. 9. Model documents of the contract:

a. The execution schedule;
b. Model of forms presenting the equipment, personnel and references;
c. Model bidding letter;
d. Model bid bond;
e. Model final bond;
f. Model of bond of start-off advance;
g. Model of guarantee in replacement of the retention fund;
h. Model contract;

Document No. 10. Models to be used by bidders;

a. Model contract;

Document No. 11. Justifications of preliminary studies; to be filled by the Project Owner;
Document No. 12. List of first grade banking establishments or financial institutions approved by the Minister in charge of Finance authorised to issue bonds for public contracts to be inserted by the Contracting Authority.

8.2 The bidder must examine all the regulations, forms, conditions and specifications contained in the Tender File. It is up to him to furnish all the information requested and prepare a bid in compliance with all aspects of the said file.

Article 9: Clarifications on the Tender File and complaints

9.1 Any bidder who wants to obtain clarifications on the Tender File may request them from the Contracting Authority in writing or by electronic mail (fax or e-mail) at the Contracting Authority's address indicated in the Special Regulations of the invitation to tender and send a copy to the Project Owner. The Contracting Authority replies in writing to any request for clarification received at least fourteen (14) days prior to the deadline for the submission of bids.

A copy of the Contracting Authority's response, indicating the question posed but not mentioning the author, is addressed to all bidders who bought the Tender File.

9.2 Between the publication of the tender notice including the pre-qualification phase of candidates and the opening of bids, any bidder who feels aggrieved in the public contracts award procedure may lodge a complaint to the Minister in charge of Public Contracts.

9.3 A copy of the complaint should be addressed to the Contracting Authority and to the body in charge of the regulation of public contracts and the chairperson of the Tenders Board.

9.4 The Contracting Authority has five (5) days to react. A copy of the reaction shall be forwarded to MINMAP and the body in charge of the regulation of Public Contracts.

Article 10: Amendment of the Tender File

10.1 The Contracting Authority may at any moment, prior to the deadline for the submission of bids and for any reason, be it at his initiative or in reply to a request for clarification formulated by a bidder, amend the Tender File by publishing an addendum.

10.2 Any published addendum shall be an integral part of the Tender File, in accordance with article 8.1 of the General Regulations of the invitation to tender and must be communicated in writing or made known by a traceable means to all bidders who bought the Tender File.

10.3 In order to give bidders sufficient time to take account of the addendum in the preparation of their bids, the Contracting Authority may postpone as is necessary, the deadline for the submission of bids, in accordance with provisions of article 22 of the General Regulations of the invitation to tender.

C. Preparation of bids

Article 11: Tender Costs

The candidate shall bear the costs related to the preparation and presentation of his bid and the Contracting Authority and the Project Owner shall in no case be responsible for these costs nor pay for them whatever the evolution or outcome of the invitation to tender procedure.

Article 12: Language of Bid

The bid as well as any correspondence and any document exchanged between the bidder and the Contracting Authority shall be written in English or French. Complementary documents and the forms provided by the bidder may be written in another language on condition that a precise translation into either English or French of the passages concerning the bid is included; in which case for reasons of interpretation, the translation shall be considered to be authentic.

Article 13: Constituent Documents of the Bid

13.1 The bid presented by the bidder shall include the documents detailed in the Special Regulations of the invitation to tender, duly filled and put together in three volumes:

a. ***Volume 1: Administrative file***

It includes:

i) All documents attesting that the bidder:
- has subscribed to all declarations provided for by the laws and regulations in force;
- paid all taxes, duties, contributions, fees or deductions of whatever nature;
- is not winding up or bankrupt;
- is not the subject of an exclusion order or forfeiture provided for by the law in force;

ii) The bid bond established in accordance with the provisions of article 17 of the General Regulations of the invitation to tender;

iii) The written confirmation empowering the signatory of the bid to commit the bidder, in accordance with the provisions of article 6(1) the General Regulations of invitation to tender.

b. ***Volume 2: Technical bid***

b.1 Information on qualifications

The Special Regulations list the documents to be furnished by bidders to justify the qualification criteria mentioned in article 6(1) of the Special Regulations of the invitation to tender.

b.2 Methodology

The Special Conditions of the invitation to tender specifies the constituent elements of the technical bid of the bidders especially: a methodological statement on an analysis of the works and specifying the organisation and programme which the bidder intends to put in place or use to execute the works (installations, schedule, Quality Assurance Plan (QAP), sub-contracting, attestation of visit of the site, where necessary, etc.).

b.3 Proof of Acceptance of Conditions of the Contract

The bidder shall submit duly initialled copies of the administrative and technical documents relating to the contract, namely:

1. The Special Administrative Conditions (SAC);
2. The Special Technical Conditions (STC).

b.4 Commentaries (optional)

A commentary on the technical choices of the project and possible proposals

c. ***Volume 3: Financial bid***

The Special Regulations specify the elements that will help in justifying the cost of the works, namely:

1. The signed and dated original bid prepared according to the attached model, stamped at the prevailing rate;
2. The duly filled Unit Price Schedule;

3. The duly filled detailed estimates;
4. The sub-details of prices and/or breakdown of all-in prices;
5. The projected schedule of payments, where need be.

In this regard, the bidders will use the documents and models provided in the Tender File, subject to the provisions of article 17(2) of the General Regulations of the invitation to tender concerning the other possible forms of guarantees.

13.2 If in accordance with the provisions of the Special Regulations of the invitation to tender, the bidders present bids for several lots of the same invitation to tender, they could indicate rebates offered in case of award of more than one lot.

Article 14: Bid Price

14.1 Except otherwise stated in the Tender File, the amount of the contract shall cover all the works described in article 1.1 of the General Regulations of the invitation to tender, on the basis of the price schedule and the detailed bill of quantities and estimates presented by the bidder.

14.2 The bidder shall fill the unit prices and totals of all items on the schedule and bill of quantities and estimates.

14.3 Subject to contrary provisions provided for in the Special Regulations and in the Special Administrative Conditions, all dues, taxes and fees payable by the bidder on grounds of the contract or on any other ground, thirty (30) days prior to the submission of the bids, shall be included in the prices and in the total amount of the bid presented by the bidder.

14.4 If a price revision/updating clause is provided for in the contract, the date of establishment of the initial price, as well as the price revision/updating conditions for the said price must be specified. This is with the understanding that any contract of duration less than one (1) year shall not be subject to price revision.

14.5 All unit prices must be justified by sub-details established in accordance with the structure proposed in document 8 of the Tender File.

Article 15: Currency of Bid and Payment

15.1 In case of international invitations to tender, the currencies of the bid shall follow the provisions of either Option A or Option B below, the applicable option being that retained in the Special Regulations of the invitation to tender.

15.2 Option A: The amount of the bid shall be entirely made in the national currency.
The amount of the bid, unit prices of the price schedule and the prices of the bill of quantities and estimates are completely made in CFA francs in the following manner:

a) Prices shall be entirely drawn in the national currency. The bidder who intends to commit expenditures in other currencies for the execution of the works shall indicate in the annex to the bid the percentage(s) of the amount of the bid necessary to cover the needs in foreign currencies, without exceeding the maximum of the three currencies of member countries of the funding institution of the contract.

b) The exchange rates used by the bidder to convert his bid into the national currency shall be specified by the bidder in an annex to the bid in compliance with the specifications of the Special Regulations. These rates shall be applied for any payment within the framework of the contract so that the retained bidder does not bear any change in the exchange rate.

15.3 Option B: The amount of the bid shall be directly made in the national and foreign currency at the rates fixed in the Special Regulations.
The bidder shall draw the unit prices of the price schedule and the prices of the bill of quantities and estimates in the following manner:

(a) The prices of inputs necessary for the works which the bidder intends to procure in the Contracting Authority's country shall be in currency of the Contracting Authority's country specified in the Special Regulations and called "national currency";

(a) The prices of inputs necessary for works which bidder intends to procure out of the Contracting Authority's country shall be in the currency of the country of origin of the bidder or of the currency of an eligible member country widely used in international trade.

15.4 The Contracting Authority may request the bidders to explain the needs in national and foreign currencies and to justify that the amounts included in the unit and total prices and indicated in annex to the bids are reasonable; to this end, a detailed statement of their needs in foreign currencies shall be furnished by the bidder.

15.5 During the execution of the works, most of the foreign currency to be paid as part of contract may be revised by mutual agreement between the Contracting Authority and the entrepreneur in a way as take account of any modification in the foreign currency needs within the context of the contract.

Article 16: Validity of bids

16.1 Bids must remain valid during the period stated in the Special Regulations from the date of submission of the bids fixed by the Contracting Authority, in application of article 22 of the Special Regulations. A bid valid for a shorter period shall be rejected by the Contracting Authority as not being in compliance.

16.2 Under exceptional circumstances, the Contracting Authority may seek the approval of bidders to extend the validity time-limit. The request and the responses that will be given shall be in writing (or by fax). The validity of the bid bond provided for in article 17 of the General Regulations shall equally be extended for a corresponding duration. A bidder may refuse to extend the validity of his bid without losing his bid bond. A bidder who consents to an extension shall not be asked to modify his bid nor shall he be authorised to do so.

16.3 Where the contract does not include a price revision clause and that the period of validity of bids is extended by more than sixty (60) days, the amounts payable to the bidder retained shall be updated by application of the related formula featuring in the request for extension that the Contracting Authority addressed to bidders.

The updating period shall run from the date of overrun of sixty (60) days to the date of notification of the contract or the Administrative Order for start of execution of works by the retained bidder, as specified in the Special Administrative Conditions. The effect of updating shall not be taken into account for purposes of evaluation of bids.

Article 17: Bid bond

17.1 In application of article 13 of the General Regulations, the bidder shall furnish a bid bond of the amount specified in the Special Regulations and which bid bond shall be a full part of his bid.

17.2 The bid bond must conform to the model presented in the Tender File; other models may be authorised subject to the prior approval of the Contracting Authority. The bid bond will remain valid for thirty (30) days beyond the original date set for the validity of bids or any other validity time-limit requested by the Contracting Authority and accepted by the bidder, in accordance with the provisions of article 16 (2) of the General Regulations.

17.3 Any bid without an acceptable bid bond shall be rejected by the Tenders Board as not in conformity. The bid bond of associated enterprises must be established in the name of the group submitting the bid and mention each member of the associated grouping.

17.4 The bid bonds of bidders who are not retained shall be returned within fifteen (15) days after publication of the award result.

17.5 The bid bond of the successful bidder shall be released as soon as the latter would have signed the contract and furnished the required final bond.

17.6 The bid bond may be seized:

a. If the bidder withdraws his bid during the period of validity;
b. If the retained bidder:
   i) Fails in his obligation to register the contract in application of article 38 of the General Regulations;
   ii) fails in his obligation to furnish the required final bond in application of article 38 of the General Regulations;
   iii) Refuses to receive notification of the Administrative Order to commence execution.

Article 18: Varying proposals of bidders

18.1 Where the works can be executed within variable deadlines, the Special Regulations shall specify these deadlines and shall indicate the method retained for the evaluation of the completion deadline proposed by the bidder within the specified deadlines. Bids that propose deadlines beyond those specified shall be considered as not being in conformity.

18.2 Except in the case mentioned in article 18(3) below, bidders wishing to offer technical variants must first assess the basic solution of the Contracting Authority as described in the Tender File and furnish in addition all the information which the Contracting Authority needs for a complete evaluation of the proposed variant, including the plans, calculations, technical specifications, sub-details of prices and proposed construction

methods and all other useful information. If necessary, the Contracting Authority will examine only the technical variants of the bidder whose bid is in compliance with the basic solution has been evaluated as the lowest bid.

18.3 When according to the Special Regulations the bidders are authorised to directly submit the technical variants for certain parts of the works, these parts of the works must be described in the technical specifications. Such variants shall be evaluated on their own merit in accordance with the provisions of article 31(2) (g) of the General Regulations.

Article 19: Preparatory meeting to the establishment of bids

19.1 Except otherwise stipulated in the Special Regulations, a bidder may be invited to take part in a preparatory meeting which will hold at the date and place indicated in the Special Regulations.

19.2 The subject of the preparatory meeting shall be to furnish clarifications and answer any questions which may be raised at this stage.

19.3 As much as possible, the bidder is requested to submit any question in a way as to reach the Contracting Authority at least one week before the meeting The Contracting Authority may not reply to questions received too late. In this case, the questions and answers shall be transmitted according to the methods set in article 19(4) below.

19.4 The minutes of the meeting, including the text of the questions asked and the replies given, including questions prepared after the meeting, shall be forwarded immediately to everyone who bought the Tender File. Any modification of documents of the Tender File listed in article 8 of the General Regulations which may prove to be necessary at the end of the preparatory meeting shall be done by the Contracting Authority by publishing an addendum in accordance with the provisions of article 10 of the General Regulations and not through the minutes of the preparatory meeting.

19.5 The fact that a bidder does not attend a preparatory meeting for the establishment of bids shall not be a reason for disqualification.

Article 20: Form and Signature of Bid

20.1 The bidder shall prepare an original of the constituent documents described in article 13 of the General Regulations in a volume clearly indicated "**ORIGINAL**". In addition, the bidder shall submit the number required in the General Regulations, bearing **"COPY"**. In case of discrepancy, the original shall be considered as authentic.

20.2 The original and copies of the bid must be typed or written in indelible ink (photocopies shall be accepted in the case of copies) and shall be signed by the person(s) duly empowered to sign on behalf of the bidder, in accordance with article 6(1a) or 6(2c) of the General Regulations, as the case may be. All the pages of the bid containing alterations or changes must be initialled by the signatory (ies) of the bid.

20.3 The bid shall be bear - no modification, suppression or alteration unless such corrections are initialled by the signatory (ies) of the bid.

D. SUBMISSION OF BIDS

Article 21: Sealing and marking of bids

21.1 The bidder shall seal the original and each copy of the bid in separate envelopes (internal envelopes) by marking on these envelopes "**ORIGINAL**" and "**COPY**", as the case may be. The envelopes shall then be placed in another envelope which will equally be sealed but which will not give any indication regarding the identity of the bidder.

21.2 The external and internal envelopes:

a. Should be addressed to the Contracting Authority at the address indicated in the Special Regulations;

b. Should bear the name and identification number of the project as indicated in the Special Regulations and bear the inscription "***TO BE OPENED ONLY DURING THE BID-OPENING SESSION***" as specified in the Special Regulations.

21.3 The internal envelopes should equally carry the name and address of the bidder in a way as to enable the Contracting Authority return the sealed bid if it is late in accordance with article 23 and 24 of the General Regulations.

21.4 If the external envelope is not sealed and marked as indicated in paragraphs 21(1) and 21(2) above, the Contracting Authority shall not be responsible if the bid is misplaced or opened prematurely.

Article 22: Date and time-limit for submission of bids

22.1. The bids must be received by the Contracting Authority at the address specified in article 21(2) of the Special Regulations not later than the date and time stated in the Special Regulations.

22.2. The Contracting Authority may, at his discretion, postpone the deadline set for the submission of the bids by publishing an addendum in accordance with the provisions of article 10 of the General Regulations. In this case, all the rights and obligations of the Contracting Authority and bidders previously governed by the initial date will henceforth be governed by the new date.

Article 23: Late Bids

Any bid received by the Contracting Authority beyond the deadline for the submission of bids in accordance with article 22 of the General Regulations shall be declared late and consequently rejected.

Article 24: Modification, substitution and withdrawal of bids

24.1. A bidder may modify or withdraw his bid after submitting it, on condition that the written notification of the modification or withdrawal is received by the Contracting Authority prior to the end of the time-limit prescribed for the submission of the bids. The said notification must be signed by an authorised representative in application of article 20(2) of the General Regulations. The modification or the corresponding replacement bid must be attached to the written notification. As the case may be, the envelopes must bear the inscription **"WITHDRAWAL"**, and **"REPLACEMENT BID"** or **"MODIFICATION".**

24.2. Notification of modification, replacement or withdrawal of the bid by the bidder should be prepared, sealed, marked and forwarded in accordance with the provisions of article 21 of the General Regulations. Withdrawal may equally be notified by telex but should in this case be confirmed by a duly signed written notification whose date, post mark being authentic, shall not be posterior to the time-limit set for the submission of bids.

24.3. In application of article 24(1), bids being requested to be withdrawn by bidders shall be returned to them unopened.

24.4. No bid may be withdrawn during the interval between the submission of bids and the expiry of the validity of bids specified by the model tender. The withdrawal of a bid by a bidder during this interval may lead to the confiscation of the bid bond in accordance with the provisions of article 17(6) of the General Regulations.

E. OPENING OF ENVELOPES AND EVALUATION OF BIDS

Article 25: Opening of envelopes and petitions

25.1. The competent Tenders Board shall open the envelopes in single phase and in the presence of the representatives of bidders who wish to attend at the date, time and address specified in the Special Regulations. Representatives of bidders shall sign a register attesting to their presence.

25.2. Firstly, envelopes marked **"withdrawal"** shall be opened and the contents announced to the hearing of everyone, while the envelope containing the corresponding bid shall be returned to the bidder unopened. Withdrawal shall be allowed only if the corresponding notification contains a valid empowerment of the signatory to request this withdrawal and if this notification is read to the hearing of everyone. Then the envelopes marked **"Replacement** bid" are opened and announced to the hearing of everyone and the new corresponding bid substituted for the preceding one which will be sent to the bidder concerned unopened. The replacement of the bid shall only be allowed if the corresponding notification contains a valid empowerment of the signatory requesting the replacement and read to the hearing of everyone. Lastly, the envelopes marked **"modification"** shall be opened and their contents read to the hearing of everyone with the corresponding bid. The modification of the bid shall only be allowed if the corresponding notification contains a valid empowerment of the signatory requesting the modification and read to the hearing of everyone. Only bids which were opened and announced to the hearing of everyone during the opening of bids shall then be evaluated.

25.3. All envelopes shall be opened successively and the name of the bidder announced aloud as well as the possible modification mentioned, the price offered, including any rebates [*in case of opening of financial bids*] and any variant, where necessary, the existence of a guarantee of the bid if it is required and any other details which the Contracting Authority deems useful to be mentioned. Only rebates and variants of bids announced to the hearing of everyone during the opening of bids shall be submitted for evaluation.

25.4. Bids (and modifications received in accordance with the provisions of article 24 of the General Regulations) which were not opened and read to the hearing of everyone during the bid-opening session for whatever reason, shall not be submitted for evaluation.

25.5. Bid-opening minutes are recorded on the spot mentioning the admissibility of bids, their administrative regularity, prices, rebates and time-limits as well as the composition of the Evaluation sub-committee. A copy of the said minutes to which is attached the attendance sheet is handed over to all the participants at the end of the session.

25.6. At the end of each bid-opening session, the chairperson of the Tenders Board immediately hands over to the focal point designated by the body in charge of regulation of public contract an initialled copy of the bids presented by bidders.

25.7. In case of petition as provided for by the Public Contracts Code, it should be addressed to the Minister Delegate in charge of Public Contracts with copies to the body in charge of the regulation of public contracts, the head of structure to which is attached the Tenders Board concerned.

It must reach within a maximum deadline of three (3) working days after the opening of bids in the form of a letter to which is obligatorily attached a sheet of the petition form duly signed by the petitioner and possibly by the chairperson of the Tenders Board.

The Independent Observer attaches to his report the sheet that was handed to him, including any related commentaries or observations.

Article 26: Confidential Nature of the procedure

26.1. No information relating to the examination, clarification, evaluation and comparison of bids and verification of the qualification of the bidders and the recommendation for the award shall be given to bidders or to any person not concerned with the said procedure as long as the preferred bidder has not been made public, subject to the disqualification of the bid of the bidder and suspension of the authors from all activities in the domain of public contracts.

26.2. Any attempt by a bidder to influence the Tenders Board or the Evaluation sub-committee of bids or the Contracting Authority in its award decision may lead to the rejection of his bid.

26.3. Notwithstanding the provisions of paragraph 26.2 above, between the opening of bids and the award of the contract, if a bidder wishes to enter into contact with the Contracting Authority for reasons having to with his bid may do so in writing.

Article 27: Clarifications on the bids and contact with the Contracting Authority

27.1. To ease the examination, evaluation and comparison of bids, the Tenders Board may, if it so desires, request any bidder to give clarifications on his bid. This request for clarification and the response thereto are formulated in writing but no change on the amount or content of the bid is sought, offered or authorised, except it is necessary to confirm the correction of calculation errors discovered by the Evaluation Sub-committee during the evaluation in accordance with the provisions of article 30 of the General Regulations.

27.2. Subject to the provisions of paragraph 1 above, bidders shall not contact members of the Tenders Board and the Evaluation Sub-committee for questions related to their bids, between the opening of envelopes and the award of the contract.

Article 28: Determination of compliance of bids

28.1. The Evaluation sub-committee shall carry out a detailed examination of bids to determine if they are complete, if the required guarantees are furnished, if the documents were correctly signed and if generally the bids are in proper order.

28.2. The Evaluation sub-committee shall determine if the bid is essentially in compliance with the conditions fixed in the Tender File based on the content without recourse to external elements of proof.

28.3. A bid that complies with the Tender File shall essentially be a bid that respects all the terms, conditions and specifications of the Tender File, without substantial divergence or reservation. A substantial divergence or reservation is that:

i) Which substantially limits the scope, quality or realisation of the works;

ii) Which substantially limits, contrary to the Tender File, the rights of the Contracting Authority or his obligations in relation to the contract;

iii) Whose correction would unjustly affect the competitiveness of the other bidders who presented bids that essentially complied with the Tender File

28.4. If a bid is essentially not in compliance, it shall be rejected by the competent Tenders Board and shall not subsequently be rendered in compliance.

28.5. The Contracting Authority reserves the right to accept or reject any modification, divergence or reservation. Modifications, divergences, variants and other factors which are beyond the requirements of the Tender File shall not be considered during the evaluation of bids.

Article 29: Qualification of the bidder

The Evaluation sub-committee shall ensure that the successful bidder retained for having submitted a bid substantially in compliance with the provisions of the Tender File, fulfils the qualification criteria stipulated in article 6 of the Special Regulations. It is essential to avoid any arbitrariness in determining qualification.

Article 30: Correction of Errors

30.1. The Evaluation sub-committee shall verify bids considered essentially in compliance with the Tender File to correct the possible calculation errors. The Evaluation sub-committee shall correct the errors in the following manner:

(a) Where there is an incoherence between the unit price and the total obtained by multiplying the unit price by the quantity, the unit price being authentic, the total price shall be corrected, unless the Evaluation sub-committee judges that it is a gross error of decimal point in the unit price in which case the total price as presented shall be authentic and the unit price corrected.

(b) If the total obtained by addition or subtraction of the totals is not exact, the sub totals shall be considered authentic and the total corrected.

(c) Where there is a difference between the price indicated in letters and in figures, the amount in letters shall be considered authentic, unless the amount is linked to an arithmetical error confirmed by the sub-detail of the said price, in which case the amount in figures shall prevail subject to paragraphs (a) and (b) above.

30.2. The amount featuring in the bid shall be corrected by the Evaluation sub-committee, in accordance with the error correction procedure above and with confirmation by the bidder, the said amount shall be deemed to commit him.

30.3. If the bidder who presented the bid evaluated as the lowest refuses the correction thus carried out, his bid shall be rejected and the bid bond may be seized.

Article 31: Conversion into a single currency

31.1. To facilitate the evaluation and comparison of bids, the Evaluation sub-committee shall convert the prices of bids expressed in various currencies into those in which the bid is payable in CFA francs.

31.2. The conversion shall be done using the selling rate fixed by the Bank of Central African States (BEAC) under the conditions defined by the Special Regulations.

Article 32: Evaluation and comparison of financial bids

32.1. Only bids considered as being in compliance, as per the provisions of article 28 of the General Regulations, shall be evaluated and compared by the Evaluation sub-committee.

32.2. By evaluating the bids, the Evaluation Sub-committee shall determine for each bid the evaluated amount of the bid by rectifying the amount as follows:

a) By correcting any possible error in accordance with the provisions of article 30.2 of the General Regulations;

b) By excluding projected sums and where necessary provisions for unforeseen occurrences featuring in the bill of quantities and estimates but by adding the amount of works done under State supervision where they are costed in a competitive manner as specified in the Special Regulations.

c) By converting into a single currency the amount resulting from the rectifications (a) and (b) above, in accordance with the provisions of article 31(2) of the General Regulations;

d) By appropriately adjusting any other modification, divergence or quantifiable reservation on technical or financial basis.

e) By taking into consideration the various execution time-limits proposed by the bidders, if they are authorised by the Special Regulations;

f) If need be, in accordance with the provisions of article 13(2) of the General Regulations and the Special Regulations by applying the rebates offered by the bidder for the award of more than one lot, if this invitation to tender is launched simultaneously for several lots.

g) If need be, in accordance with the provisions of article 18(3) of the Special Regulations and the Technical Specifications, the proposed technical variants, if they are permitted, shall be evaluated on their own merit and independently of the fact that the bidder offered or not a price for the technical solution specified by the Contracting Authority in the Special Regulations.

32.3. The estimated effect of price revision formulae featuring in the GAC and SAC applied during the period of execution of the contract shall not be considered during the evaluation of bids.

32.4. If the bid judged the lowest bid is considered abnormally low or strongly unbalanced in relation to the estimates of the Project Owner for the works to be executed in this contract, the Tenders Board may, from the sub-details of prices furnished by the bidder for any element or all the elements of the bill of quantities and estimates, verify if these prices are compatible with the construction methods and proposed calendar. In the case where the justifications presented by the bidder are not satisfactory, the Contracting Authority may reject the bid after the technical opinion of the Public Contracts Regulatory Agency.

Article 33: Preference granted national bidders

National contractors shall benefit from a margin of national preference during the evaluation of bids as provided for in the Public Contracts Code.

Article 34: Award

34.1. The Contracting Authority shall award the contract to the bidder whose bid was judged essentially in compliance with the Tender File and who has the required technical and financial capacities to execute the contract satisfactorily and whose bid was evaluated as the lowest by including, where necessary, proposed rebates

34.2. If, according to article 13(2) of the General Regulations, the invitation to tender comprises several lots, the lowest bid shall be determined by evaluating this contract with other lots to be awarded concurrently, by taking into account the rebates offered by the bidders in the case of more than one lot.

34.3. Any award of contract shall be made to the bidder fulfilling the technical and financial capacities required resulting from the evaluation criteria and presenting the bid evaluated as the lowest.

Article 35: The right by the Contracting Authority to declare an invitation to tender unsuccessful or cancel a procedure

The Contracting Authority reserves the right to cancel a procedure of invitation to tender after the authorisation of the Minister Delegate at the Presidency in charge of Public Contracts where the bids have been opened or to declare an invitation to tender unsuccessful after the advice of the competent Tenders Board, without any claims being entertained.

Article 36: Notification of award of the contract

Before the expiry of the validity of the bids set in the Special Regulations, the Contracting Authority shall notify the preferred bidder by telecopy confirmed by registered mail or by any other means that his bid was retained. This letter will indicate the amount the Project Owner will pay the contractor to execute the works and the execution time-limit.

Article 37: Publication of results of award and petitions

37.1. The Contracting Authority shall communicate to any bidder or administration concerned, upon request addressed to it within a maximum deadline of five (5) days after publication of the award results, the Independent Observer's report as well as the minutes of the award session of the related contract to which shall be attached the evaluation report of the bids.

37.2. The Contracting Authority is bound to communicate the reasons for the rejection of bids of the bidders concerned who so request.

37.3. After publication of the award results, bids that are not withdrawn within fifteen (15) days shall be destroyed, without any claims for compensation being entertained. Only the copy destined for the body in charge of regulation shall be kept.

37.4. In case of petition, it should be addressed to the Public Contracts Authority, with copies to the body in charge of the regulation of public contracts, the Contracting Authority and the chairperson of the Tenders Board concerned.

It must take place within a maximum deadline of five (5) working days after the publication of the results.

Article 38: Signing of the contract

38.1. After publication of the results, the draft contract subscribed by the successful bidder is submitted to the Tenders Board for examination and where applicable, to the Minister in charge of Public Contracts for prior endorsement.

38.2. The Contracting Authority has a deadline of seven (7) days to sign the contract from the date of reception of the draft contract examined by the competent Tenders Board and subscribed by the successful bidder and where applicable, the endorsement of the Minister in charge of Public Contracts.

38.3. The contract must be notified to the successful bidder within five (5) days of its date of signature.

Article 39: Final Bond

39.1. Within twenty (20) days of the notification by the Contracting Authority, the contractor shall furnish the Project Owner with a final bond, to guarantee the complete execution of the works.

39.2. The bond whose rate varies between 2 and 5 per cent of the amount of the contract inclusive of all taxes, may be replaced by a guarantee from a banking establishment approved according to the instruments in force with the Project Owner as beneficiary or by a joint or several guarantee.

39.3. Small and medium-sized enterprises (SME) constituted of national capital and managed by nationals may, in lieu of the guarantee, provide a statutory lien or a bond issued by a banking establishment or first rate financial institution approved in accordance with the instruments in force.

39.4. Failure to produce the final bond within the prescribed time limit shall likely cause the termination of the contract under the terms laid down in the General Administrative Conditions.

Document No. 3

SPECIAL REGULATIONS OF THE INVITATION TO TENDER

Special regulations of the invitation to tender

References of the General regulations	General
1.1	**Definition of works:** SUPPLY OF MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE , LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE.), NGOKETUNJIA DIVISION IN NORTH WEST REGION Name and address of the Contracting Authority: , The Mayor of BABESSI, Reference of Invitation to tender: **N° 06/ONIT/MINDDEVEL/BC/BCITB/PIB/ 2025 OF 15/01/ 2025**
1.2	Execution deadline: Two (02) Months
2.1	**Source of financing** Works which form the subject of this invitation to tender shall be financed by the 2025 Public Investment Budget of the Ministry of MINSANTE, budget head ……
4.1	List of pre-qualified candidates, not applicable
5.1	Origin of building materials, equipment, materials, supplies and equipment: The materials will generally be from natural sources in Cameroon.

6.1 Evaluation criteria

The bids shall be evaluated according to the main criteria as follows:

A. Eliminatory criteria

1 Absence or insufficient bid bond (outright elimination);
2. Absence or non-conformity of a document in the administrative file
3. False declaration or falsified documents;
4. Incomplete financial file;
5. Omission of a unit price in the financial bid;
6. Deadline for delivery higher than prescribed;
7. Non respect of 75% of essential criteria;
8. External envelope carrying a sign that can identify the bidder;

During the opening session of the bids if a document of the administrative bid is absent or noncompliant, the bidder will be given forty-eight (48) hours to produce or replace said document else will be eliminated during the evaluation of the bids. No such document will be accepted after this deadline.

B. Essential criteria

1) General presentation of the bids;
2) Financial capacity;
3) References of the company in similar achievements;
4) Quality of the personnel;

5) Technical organization of the works;
6) Logistics;
7) Special Technical Clauses initialed in all the pages and signed on the last page;
8) Special Administrative Clauses completed and initialed in all the pages and signed on the last page.

The criteria relating to the qualification of candidates could be indicative on the following:

The essential criteria are subjected to minima whose detail is given in the Special Tender Regulation (RPAO).

This evaluation will be done in a purely positive way (yes) or negative (no) with an acceptable minimum from at least 75% of the essential criteria taken in account.

The contract will be awarded to the bidder who would have proposed the offer with the lowest amount, in conformity with the regulations of the Tender Documents and having satisfied to **100%** of the eliminatory criteria and at least **75%** of the essential criteria.

ARTICLE 6: **Language of the bids:**

The offer like any correspondence and all documents concerning the tender, exchanged between the tenderer and the Project Owner will be written in French or English. The complementary documents and the printed papers form provided by the Bidder can be written in another language in condition of being accompanied by a precise translation in French or English; in which case and for purposes of interpretation of the offer, the translation will be taken.

PRESENTATION OF THE TENDER

The bids prepared in English or French and in seven (07) copies with one (01) original and six (06) copies marked thus, shall be presented in three (03) volumes as follows:

A) Administrative Documents
B) Technical Documents
C) Financial Documents

5.1 External envelope.

Each bidder shall seal these three (03) envelopes (A, B and C) in one common envelope on which shall be written.

OPEN NATIONAL INVITATION TO TENDER
N° 06/ONIT/MINDDEVEL/BC/BCITB/PIB/ 2025 OF 15/01/2025
FOR THE MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE , LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE.), NGOKETUNJIA DIVISION IN NORTH WEST REGION

"TO BE OPENED ONLY DURING THE BID-OPENING SESSION"

N.B: The external envelope should not carry any mark or sign that can lead to the identification of the bidder.

8.2 Internal envelopes

Three (03) internal envelopes must be sealed in an external envelope.

The first internal envelope shall be labeled; .

<<ENVELOPE A: ADMINISTRATIVE DOCUMENTS>> and shall contain the administrative documents of the enterprise. These documents shall be original or copies certified by competent authorities not more than three months.

ADMINISTRATIVE DOCUMENTS.

DOCUMENT N°	DESCRIPTION
A.1	Declaration of intention to tender stamped with the tariff in force
A.2	Certified Copy of the Business Registration, not more than three months old.
A.3	Certificate of non-bankruptcy established by the Court of 1st instance or the Chamber Commerce,

	Industry and Trade of the place of residence of the bidder, not more than three (03) months.
A.4	Attestation of bank account of the bidder, issued by a first rate-bank or an insurance company approved by the Ministry in charge of Finance or by a foreign bank the first order not more than three months.
A.5	Purchase receipt of tender file issued by BABESSI municipal treasury
A.6	A bid bond of one million (1,000,000) FCFA issued by a first rate-bank or an insurance company approved by the Ministry in charge of Finance in conformity with COBAC conditions.
A.7	An attestation of non-exclusion from Public Contracts issued by the Public contract Regulatory Board (ARMP)
A.8	An Attestation of the National Social Insurance Fund stating that the bidder has met all his obligations vis a vis the Fund; the attestation should be less than three months old.
A.9	Certified Copy of a valid taxpayers card, delivered by the chief of center of Taxes.
A.10	A Certificate of tax compliance attesting that the bidder has met all the statutory declarations in issues of taxes in the current financial year; this certificate should be less than three months old.
A .11	Plan of localization

During the opening session of the bids if a document of the administrative bid is absent or noncompliant, the bidder will be given forty-eight (48) hours to produce or replace the said document else it will be eliminated during the evaluation of the bids. No such document will be accepted after this deadline.

The second Internal Envelope shall be labeled **<<ENVELOPE B: TECHNICAL DOCUMENT>>** and shall contain the following:

	EVALUATION GRID OF TECHNICAL BID		
N°	**EVALUATION CRITERIA AND SUB-CRITERIA**	**YES**	**NO**
B)	**ESSENTIAL CRITERIA**		
B.1	**General presentation of the tender files**		
B.1.1	- Visual presentation of the bids (clean, paginated bound documents) Presentation of the documents in the order required in the tender file Clarity and legibility of the documents provided		
B.2	**LIST OF REFERENCES OF THE ENTERPRISE IN THE SIMILAR JOBS**		
	List of references of the enterprise in similar jobs justified by signed contracts (first and last pages) and minutes of reception or attestation of clearances of supply executed. Minimum acceptable: **02** Contracts realized in the domain of general supplies over the past 05 years		
B.2.1	1st Reference		
B.2.2	2 nd Reference		
B.3	**TIME FRAME FOR YHE SUPPLIES**		
B.3.1	Planning of the supplies and the respect of the duration of the supplies		
B.4	**QUALITY OF THE SUPPLIES**		
B.4.1	Catalogue of supplies in colour		
B.5	**CAPACITY TO FINANCE THE PROJECT**		
B.5.1	**FINANCIAL CAPACITY** An attestation of financial capacity (solvency) of the enterprise issued by a 1st class bank located in any area in Cameroon and approved by the Ministry of Finance and respect COBAC conditions. 75% of the estimated cost of the project		
B.6	**ACKNOWLEDGEMENT TERMS OF REFERENCE**		
B.6.1	Special Technical Clauses initialed in all the pages and last page signed and dated with the following note: ***Read and approved***		

B.6.2	Special Administrative Clauses completed and initialed in all the pages and last page signed and dated with the following note: ***Read and approved***		
	TOTAL	/ 8 yes	

ENVELOPE C- FINANCIAL FILE

No.	DESIGNATION.		
C1	A submission letter, signed, dated and stamped.		
C2	Completed and signed frame work of unit prices.		
C3	Signed Bills of quantities and cost estimates indicating the total amount without taxes (HT) and with taxes (TTC)		

- The bidders will use for this purpose the documents and models envisaged in the Tender Documents, subject to the provisions of Article 19.2 of the RGAO concerning the other possible forms of bid bond.
- The various parts of the same file must be separated with colour guides from as well in the original as in the copies, so as to facilitate its examination

Supply price

ARTICLE 8: Currency of payment

This National Invitation to tender is awarded on total and contractual price, inclusive of all taxes, firm and non-revisable for the whole of the works and the equipment defined in the present Invitation to tender.

The corresponding amount will be calculated inclusive of all taxes and the prices will be obligatorily expressed in francs CFA.

The unit Schedule price expressed out in figures and letters and in seven (07) copies will be joined to the offer. In the event of error between the prices in figures and letters, the latter will precede and be used as a basis of calculation of the amount of the offer.

The establishment of the prices will be done on the basis of economic condition into force in Republic of Cameroon at the handover date of the offers.

ARTICLE 9: Transport and delivery

The materials for work must be protected during transportation through packaging whether by air, railway or road according as the case may be. The conditions of storage must be of tropical type.

ARTICLE 10: Guarantee and retention guarantee

10.1 Provisional guarantee

The amount of the provisional guarantee or guarantee of tender is fixed at **One million (1,000,000) FCFA.**

The time of validity of this guarantee is ninety (90) days as from the date of depositing of the offers.

10.2 Final Bond

The final Bond is fixed at two percent (**2%**) of the initial amount of the services envisaged in the country.

It could be replaced by a guarantee personal and interdependent of a banking house approved by the Ministry of Finances following COBAC conditions.

It will have to be made up in the twenty (20) days following the notification of the signature of the contract in a bank approved by the Minister in charge of Finances.

10.3 Guarantee Retention

Guarantee Retention of ten percent (**10%**) will be operated on amount including all taxes of the contract. The corresponding sum will be paid or the released within a period of six months after the reception of the supplies.

ARTICLE 11: Period of validity of the offers

The bidder will remain committed to his offer for ninety (90) days as from the handover date of the offers.

If at the end of this period, the contract were not notified to him, the bidder will be able, either to cancel his offer, or to ask for a new negotiation of the unit prices.

ARTICLE 12: A number of copies of the offer which must be filled and sent

The tender, as all the parts accompanying it will have to be given in seven (0 7) copies, including one (01) original and six (06) copies. The bidder will present his dossier inside a sealed outer jacket being marked:

OPEN NATIONAL INVITATION TO TENDER N° 06/ONIT/ MINDDEVEL /BC/BCITB/PIB/ 2025 OF 15/01/ 2025 FOR THE SUPPLY OF SUPPLY OF MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE , LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE.), NGOKETUNJIA DIVISION IN NORTH WEST REGION

ARTICLE 13: **Date and latest time of deposit of offers**

The offers will have to arrive under closed fold and seal latest **21/02/2025** at 10:00 AM, by mail registered with acknowledgement of delivery or by deposit against receipt to the following address:

MINISTRY OF DECENTRALIZATION AND LOCAL DEVELOPMENT
BABESSI COUNCIL
SERVICE OF AWARD
Tel: 670 76 34 71;

Beyond this time no offer will be received nor accepted.

ARTICLE 14: **Opening of the tenders**

The opening of the files will be carried out in the Conference room of the Babessi Council on **21/02/ 2025** as from **11:00** AM, by the Babessi Council Internal Tender Board sitting in the presence of the bidders or their representatives and having a good knowledge of the file.

AWARD OF THE CONTRACT

ARTICLE 15: **Award of the contract**

The Tenders Board will propose to the Contracting Authority to award the contract to the bidder who will have presented the offer with the lowest offer, essentially conforming to the regulations the Tender File, having satisfied to 100% **of all the eliminatory criteria and at least 75%** of the essential criteria taken into account.

The decision carrying attribution of the contract will be published by way of press release or any other means of publication of use in the Administration.

If the contract passed on the basis of technical alternative suggested by the bidder, the contracting authority reserves the right to introduce all the provisions there allowing him to guarantee itself against the real overrun costs of the alternative compared to his estimate of origin. In the absence of these last precise details, any additional charge due to an alternative will be inadmissible.

To this end, it is specified that a bidder cannot claim to be compensated, if it is not taken action on his offer.

The contracting authority reserves the right not to take action on an Invitation to tender, if it did not obtain a proposal which appears acceptable to him.

DOCUMENT No. 4:

SPECIAL ADMINISTRATIVE CONDITIONS (SAC)

Table of contents

Article 47 - Differences and disputes (article 79 of GAC)
Article 48 - Drafting and dissemination of this contract
Article 49 and last: Entry into force of the contract

Chapter I: General

Article 1: Subject of contract

The subject of this contract shall be the SUPPLY OF MEDICAL EQUIPEMENT TO SOME HEALTH CENTRES IN BABESSI MUNICIPALITY (LOT 1 SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO INTEGRATED HEALTH CENTRE, LOT 2: SUPPLY OF MEDICAL EQUIPMENT BABA 1 MEDICALIZED HEALTH CENTRE , LOT 3: SUPPLY OF MEDICAL EQUIPMENT TO MBOGHOMBAM IHC-BABA 1, LOT 4: SUPPLY OF MEDICAL EQUIPMENT BABESSI MEDICALIZED HEALTH CENTRE, AND LOT 5: SUPPLY OF MEDICAL EQUIPMENT TO BANGOLAN INTEGRATED HEALTH CENTRE.), NGOKETUNJIA DIVISION IN NORTH WEST REGION.

Article 2: Contract award procedure

This contract shall be awarded by Open National Invitation To Tender **N°06/ONIT/ MINSANTE /BC/BCITB/PIB/ 2025 OF 15/01/ 2025**

Article 3: Definitions and duties (article 2 of GAC supplemented)

3.1 General definitions (cf. Code)

- The Contracting Authority shall be the **Lord mayor of Babessi Council**
  He awards the contract, ensures the preservation of originals of said contract documents and the transmission of copies to Ministry in charge of Public Contracts and to the body in charge of regulation.
- The Contract Engineer shall be the **District Medical Officer for Ngoketunjia** hereinafter referred to as the Engineer and shall sign the "Attachment"
- The Project **Owner is the Lord Mayor of Babessi Council.** He represents the beneficiary administration of the works.
  He ensures respect of the administrative, technical and financial conditions and contractual deadlines.
- **The Project Manager** shall be **the Chiefs of Centers and Medical Doctors** of the various health establishments herein after referred to as the Follow up Engineers.
  They ensures respect of the administrative, technical and financial conditions and contractual deadlines.
- The **Control Brigade of MINMAP** shall ensure that the equipment supplied shall be in strict respect of the jobbing order.
- The contractor shall be [to be specified].

3.2 Security

This contract may be used security subject to any form of transfer of the debt.

In this case:

- The authority in charge of ordering payment shall be the **Lord Mayor of BABESSI Council.**
- The authority in charge of the clearance of expenditures shall be the **Divisional Controller of Finance Ngoketunjia**.
- The body or official in charge of payment shall be the **Municipal Treasurer Babessi Council Treasury.**
- The official competent to furnish information within the context of execution of this contract shall be the **Lord Mayor of Babessi Council**.

Article 4: Language, applicable law and regulation

1.4 The language to be used shall be [English and/or French].

1.5 The contractor shall be bound to observe the law, regulations and ordinances in force in Cameroon both within his own organization and in the execution of the contract.

If the laws and regulations in force at the date of signature of this contract are amended after the signature of the contract, the possible direct resulting costs shall be taken into account without gain or loss for either party.

Article 5: Constituent documents of the contract (Article 4 of GAC)

The constituent contractual documents of this contract are in order of priority: (to be adapted to the nature of the supply).

1) The tender or commitment letter;
2) The bidder's tender and its annexes in all provisions not contrary to the Special Administrative Conditions (GAC) and the Special Technical Conditions (STC) hereunder;
3) The Special Administrative Conditions (SAC);
4) The Special Technical Conditions (STC);
5) The particular elements necessary for the determination of the contract price, such as, in order of priority: the unit price schedule, the statement of all-in prices, detailed estimates, the breakdown of all-in prices and the sub-details of unit prices;

Article6: General instruments in force

This contract shall be governed by the following general instruments [to be adapted according to the case]:

1. Framework Law No. 96/12 of 5 August 1996 on the management of the environment;
2. The Mining Code;
3. Instruments governing the various professional bodies;
4. Decree No. 2001/048 of 23 February 2001 relating to the setting up, organization and functioning of the Public Contracts Regulatory Agency
5. Decree No. 2003/651/PM of 16 April 2003 to lay down the procedure for implementing the tax and customs system applicable to public contracts;
6. Decree No. 2018/366 of 20 June 2018 to institute the Public Contracts Code;
7. Decree No. 2012/075 of 8 March 2012 to organise the Ministry in charge of Public Contracts;
8. Circular No. 002/CAB/PM of 21 January 2011 relative to the amelioration of the performance of the public contract system;
9. Circular No. 001/CAB/PR of 19 June 2012 relating to the award and control of execution of Public Contracts;
10. Circular [to be indicated as applicable] relating to the execution, and control of execution of the budget of the State, Public Administrative Establishments and Regional and Local Authorities and other bodies receiving government subsidies
11. Applicable standards;
12. Other instruments specific to the domain concerned with the contract.

Article 7: Communication (Articles 6and 10 supplemented)

1.1 All communications within the framework of this contract shall be written and notifications sent to the following address:

a) In the case where the contractor is the addressee: Sir/Madam.....
Beyond the time-limit of 15 days fixed in article 6(1) of the GAC to make his domicile known to the Project Owner and Contract Manager, correspondences shall be validly addressed to the [to the specified] council, chief town of the region in which the work was done;

b) In the case where the Project Owner is the addressee:
Sir/Madam_____ [to be specified] with a copy addressed to the Contracting Authority, Contract Manager, Contract Engineer, Project Manager and where need be, within the same deadline.

c) In the case where the Contracting Authority is:
Sir/Madam [to be specified] with a copy addressed within the same deadline to the Project Owner, Contract Manager, Contract Engineer and Project Manager, where applicable

1.2 The contractor shall address all written notifications or correspondences to the Project Manager with a copy to the Contract Manager.

Article 8: Administrative Orders (Article 8 of GAC)

8.1 The Administrative Order to start execution of supplies shall be signed and notified to the Contractor by the **Contracting Authority/ Project Owner** with a copy to MINMAP, the Contract Manager, Contract Engineer, the Paying Body and the Project Manager, where applicable.

8.2 Based on the minutes of a site meeting jointly signed by **Contracting Authority/Project Owner, MINMAP** and **Project Engineer** Administrative Orders with an incidence on the objective, the amount and execution deadline shall be signed by the **Contracting Authority/Project Owner** and notified by the **Project Engineer** to the Contractor with a copy to the **MINMAP**, the **Project Manager** and the Paying Body. The prior

endorsement of the Paying Body shall possibly be required before the signature of those that have an incidence on the amount.

8.3 Administrative Orders of a technical nature linked to the normal progress of the supply and without financial incidence shall be signed by the Contracting Authority/ Project owner based on the report of a joint site visit done by Contracting Authority/Project Owner, MINMAP and Project Engineer, and notified to the Contractor by the Contract Engineer with a copy to MINMAP and Project Manager

8.4 Administrative Orders serving as warnings shall be signed by the **Contracting Authority/Project Owner** and notified to the Contractor by the **Contract Engineer** with a copy to **MINMAP** and **Project Manager**.

8.5 Administrative Orders for extension of contractual time in case of force majeure shall be signed by the **Contracting Authority/Project Owner** and notified to the Contractor by the **Contract Engineer** with a copy to **MINMAP** and **Project Manager**.

The contractor has a time-limit of **fifteen (15) days** to issue reservations on any Administrative Order received. Having reservations shall not free the enterprise of executing the Administrative Orders received.

Article 9: Contracts with conditional phases (Article 9 of GAC)

9.1 [Specify if the contract has one or several phases]

At the end of a phase, the Project Owner shall carry out the acceptance of the works and issue an attestation of proper execution to the contractor. This attestation shall condition the start of the following conditional phase.

9.2 The time-limit granted for notification of the Administrative Order to start execution of a conditional phase shall be five (5) days.

Chapter II: Financial conditions

Article 11 Guarantees and bonds (Articles 29 and 41 of GAC)

11.1 Final bond

Not applicable

11.2 Performance bond

Not applicable

11.3 Guarantee of start-off advance

Not applicable

Article 12: Amount of the contract (Articles 18 and 19 of GAC supplemented)

The amount of this contract as indicated by the attached [detail or estimates] is_____(in figures)_____(in letters) CFA francs Inclusive of All Taxes; that is:

- Amount exclusive of VAT: _____(_____) CFA F
- Amount of VAT: _____(_____) CFA F.
- Amount of TSR and/or _____CFA F
- Net to be paid= EVAT-TSR and/or AIR

Article 13: Place and method of payment

The Project Owner shall release the sums due in the following manner:

a. For payments in CFA francs (amount in figures and letters exclusive of taxes) by credit to account No._____ opened in the name of the contractor in the _____bank.

b. For payments in foreign currencies (amount in figures and letters exclusive of taxes) by credit to account No._____ opened in the name of the contractor in _____bank.

Article 14: Price variation (Article 20 of GAC)

12.1 Prices shall be firm.

a. Payments on account made to the contractor as advances shall not be revisable.

b. Revision shall be "frozen" upon expiry of the contractual time-limit, except in the case of price reductions.

12.2 Price updating modalities (not applicable)

Article 15: Price revision formulae (article 21 of GAC) (not applicable)

Article 16: Price updating formulae (article 21 of the GAC) (not applicable)

Article 17: Works under State supervision (Article 22 of GAC supplemented) (not applicable)

Article 18: Evaluation of works (article 23 of the GAC)

This contract is at [unit price, all-in price or unit and all-in price].

Article 19: Evaluation of supplies (article 24 of the GAC supplemented)

19.1 [Indicate, where applicable, the modalities for payment of supplies].

19.2 No security shall be requested for payments on account on supplies.

Article 20: Advances (article 28 of the GAC) (not applicable)

Article 21: Payment for works (articles 26, 27 and 30 of the GAC supplemented)

21.1 Establishment of works executed (not applicable)

21.2 Monthly detailed account (not applicable)

21.3 Detailed account of start-off account (if applicable).

Article 22: Interest on overdue payments (Article 31 of the GAC)

Possible interests on overdue payments are paid by statement of sums due in accordance with article 167 of Decree No. 2018/366 of 20 June 2018 to institute the Public Contracts Code.

Article 23: Penalties (Article 32 of the GAC supplemented)

A. Penalties for delay

23.1 The amount set for penalties for delays shall be set as follows:

a) One two thousandth ($1/2000^{th}$) of the initial contract amount all taxes inclusive per calendar day of delay from the first to the 30^{th} day beyond the contractual time-limit;

b) One thousandth ($1/1000^{th}$) of the initial amount of the contract inclusive of all taxes per calendar day beyond the 30^{th} day.

23.2 The cumulated amounts of penalties for delay shall be limited to ten percent (10 %) of the initial contract inclusive of all taxes.

B. Specific penalties [amount to be indicated]

23.3 Independently of penalties for overrun of contractual time-limit, the contractor shall be liable for the following special penalties for the non-observation of the provisions of the contract, especially:

- Late submission of final bond;
- Late submission of insurances;

Article 24: Payment in case of a group of enterprises (article 33 of the GAC) Not applicable

Article 25: Final detailed account (article 34 of the GAC)

25.1 After completion of the supply and within a maximum time-limit of fourteen (14) days after the date of Provisional acceptance, the contractor shall establish, based on joint reports, the draft final detailed account of supplies executed to the contract Engineer. This final detailed account of works executed summarises the total sums to which the contractor may be entitled as a result of the execution of the whole Contract.

25.1 The Contract Manager has up to thirty (30) days to notify the corrected and approved draft to the Project Manager.

25.2 The contractor has up to thirty (30) days to return the signed final detailed account.

Article 26: General and final detailed account (article 35 of the GAC)

26.1 The Contract Manager or the Project Manager has up to thirty (30) days to establish the general detailed account and forward to the contractor after final acceptance.

At the end of the guarantee period which results in the final acceptance of the works, the Contract Manager draws up the general and final detailed accounts of the contract which he has had signed jointly by the contractor and the Contracting Authority. This detailed account includes:

- the final detailed account,
- the balance
- the summary of monthly payments on account.

The signing of the general and final detailed account without reservation by the contractor definitely binds the two parties, puts an end to the contract, except with regard to interest on overdue payments.

26.2 The contractor has up to thirty (30) days to return the signed final detailed account.

Article 27: Tax and customs regulations (article 36 of the GAC)

Decree No. 2003/651/PM of 16 April 2003 lays down the terms and conditions for implementing the tax regulations and customs procedures applicable to public contracts. The taxes applicable to this contract include notably:

- Taxes and dues relating to industrial and commercial profits, including the IAR which is a deduction on company taxes;
- Registration dues in accordance with the Tax Code;
- Dues and taxes attached to the execution of services provided for in the contract;
    - Duties and taxes of entry into Cameroonian territory (customs duties, VAT, computer tax);
    - Council dues and taxes;
    - Dues and taxes relating to the extraction of building materials and water.

These elements must be included in the costs which the undertaking imputes on its running costs and constitute one of the elements of the sub-details of prices exclusive of taxes.

All taxes inclusive prices means VAT included.

Article 28: Stamp duty and registration of contracts (article 37 of GAC)

Seven (7) original copies of the contract shall be stamped by and at the cost of the contractor, in accordance with the applicable regulations.

Chapter III: Execution of works

Article 29: Nature of the works (article 46 of GAC)

The works shall include especially: (position or volume of works)

(To be specified cf. Special Technical Conditions)

Article 30: Role and responsibilities of the Project Owner (GAC supplemented)

30.1 The Project Owner shall be bound to furnish the contractor with information necessary for the execution of his mission and to guarantee, at the cost of the contractor, access to sites of projects.

30.2 The Project Owner shall ensure the contractor of protection against threats, insults, violence, assault and battery, slander or defamation of which he could be victim by reason of or during the exercise of his mission.

Article 31: Execution time-limit of the contract (article 38 of the GAC)

31.1 The time-limit for the execution of the supply forming the subject of this contract shall be **two (02) months.**

31.2 This time-limit shall run from the date of notification of the Administrative Order to commence execution of the works.

Article 32: Role and responsibilities of the contractor (article 40 of the CAG)

The detailed and general plan of progress of the works shall be communicated to the Project owner in five (05) copies at the beginning.

Chapter IV: Acceptance

Article 42: PROVISIONAL ACCEPTANCE

42.1 PRE- ACCEPTANCE OPERATIONS

Before the acceptance of the supplies the Supplier shall ask in writing to the control Engineer and copy the chief of control brigade MINMAP to organize a technical visit for pre-acceptance. This visit shall include the following operations.

➢Qualitative and quantitative evaluations of the different supplies.

These operations shall be subject to a site report drawn up on the field, signed by the following.

-Control Engineer …. Secretary

-control brigade MINMAP…observer

-Contractor……..member

During this pre-reception, the engineer shall eventually specify the reserves to be lifted and the corresponding supplies to be effected before the reception. The Engineer shall fix the reception date in collaboration with the chief of service for the contract.

42.2 **Acceptance**

The acceptance commission shall comprise:

1- The Authorizing Officer or his representative ..... (Chairman)
2- The Contract Engineer..... (Secretary)
3- The DD MINMAP or his Representative..... (Observer)
4- The Project Managers or their Representatives.....(Members)
5- The Store Accountant of Babessi Council or his Representative.....(Member)
6- The Contractor or his Representative..... ...(Member)

The commission shall examine the report of the pre-acceptance and shall proceed to the acceptance. An acceptance report (process - verbal) of the supplies shall be prepared by the Engineer and sign by all the commission members.

Article 43: GUARANTEE PERIOD.

The guarantee period is six (06) month from the date of the reception for the section of new civil Engineering works.

Article 44: Article 45: Final acceptance (article 72 of the GAC)

44.1 Final acceptance shall take place within a maximum deadline of [fifteen (15) days] from the date of expiry of the guarantee.

The procedure for final acceptance shall be the same as for provisional acceptance

Chapter V: Sundry provisions

Article 45: Termination of the contract (article 74 of the GAC)

The contract may be terminated as provided for in article 167 of Decree No. 2018/366 of 20 June 2018 and equally under the conditions laid down in articles 74, 75 and 76 of the GAC especially in one of the following cases:

- Delay of more than fifteen (15) calendar days in the execution of an Administrative Order or unjustified stoppage of more than seven (7) calendar days;
- Delay in work resulting in penalties of more than 10 % of the amount of the works;
- Refusal to repeat poorly executed works;
- Default by the contractor;
- Persistent non-payment for services.

Article 46: Case of force majeure (article 75 of the GAC)

If the contractor were to raise the issue of force majeure, the thresholds below which claims shall not be admitted are:

- Rainfall: 200 millimetres in 24 hours;
- Wind: 40 metres per second;
- Flood: decennial flood frequency.

Article 47: Disagreements and disputes (article 79 of the GAC)

Disagreements and disputes resulting from the execution of this contract may be settled amicably.

Where no amicable solution can be found for a disagreement, it is brought before the competent Cameroonian jurisdiction, subject to the following provisions: [to be filled, where need be].

Article 48: Production and dissemination of this contract

Eight (08) copies of this contract shall be produced at the cost of the contractor and furnished to the Contract Manager.

Article 49 and last: Entry into force of the contract

This contract shall be final only upon its signature by the Contracting Authority. It shall enter into force as soon as it is notified to the contractor by the Contracting Authority.

Document No. 5:
Special Technical Conditions (STC)

TECHNICAL SPECIFICATIONS

Specific Technical Specifications of a Centrifuge

Centrifuges are laboratory equipment used to separate substances with different densities by applying centrifugal force. Here are some key technical specifications:

1. Speed:

- Maximum Speed (RPM): Revolutions per minute (RPM) is the key speed specification. Ranges vary greatly depending on the centrifuge type:
- Low-speed centrifuges: Typically up to 6,000 RPM
- High-speed centrifuges: Up to 25,000 RPM
- Ultracentrifuges: Can exceed 100,000 RPM
- Relative Centrifugal Force (RCF): Expressed in "g" units, RCF indicates the force applied to the sample. It's calculated based on RPM and rotor radius.

2. Rotor:

- Type:
- Fixed-angle rotors: Tubes are held at a fixed angle during centrifugation.
- Swinging-bucket rotors: Tubes swing outwards during centrifugation.
- Capacity: Number of tubes the rotor can hold and their maximum volume.
- Compatibility: Must be compatible with the specific centrifuge model.

3. Temperature Control:

- Refrigerated: Some centrifuges have refrigeration systems to maintain low temperatures for temperature-sensitive samples.
- Temperature Range: If refrigerated, the temperature range should be specified (e.g., -10°C to 40°C).

4. Timer:

- Range: Typically allows for setting centrifugation times from seconds to hours.

5. Safety Features:

- Lid Interlock: Prevents the lid from opening while the rotor is spinning.
- Imbalance Detection: Automatically stops the centrifuge if an imbalance is detected.
- Over-speed Protection: Prevents the centrifuge from exceeding its maximum safe speed.

6. Display:

- Digital Display: Shows speed, time, temperature (if applicable), and other relevant parameters.

7. Power Supply:

- Voltage and Frequency: 110V/220V, 50/60Hz (or other applicable standards).

8. Dimensions and Weight:

- Overall size and weight: Important for installation and space requirements.

Image of a Centrifuge:

Specific Technical Specifications of an Electron Microscope

Electron microscopes use a beam of accelerated electrons to image samples, providing much higher resolution than traditional light microscopes. Here are some key technical specifications:

1. Type:

- Transmission Electron Microscope

(TEM):

- Resolution: Highest resolution, capable of imaging internal structures.
- Electron Beam: Transmits electrons through the sample.
- Scanning Electron Microscope (SEM):
- Resolution: High resolution provides 3D information about the surface of the sample.
- Electron Beam: Scans the surface of the sample.

2. Electron Source:

- Electron Gun: Generates a beam of electrons.
- Types: Thermionic emission, field emission.

3. Accelerating Voltage:

- Range: Typically 20-300 kV for TEM, 1-30 kV for SEM.
- Higher voltage: Generally improves resolution but can also damage the sample.

4. Lenses:

- Electromagnetic Lenses: Focus and manipulate the electron beam.
- Number and Type: Varies depending on the microscope design.

5. Detectors:

- TEM:
- Image Plate: Detects transmitted electrons.
- CCD Camera: Captures the image.
- SEM:
- Secondary Electron Detector: Detects secondary electrons emitted from the sample surface.
- Backscattered Electron Detector: Detects electrons scattered back from the sample.

6. Vacuum System:

- High Vacuum: Essential for stable electron beam operation.
- Vacuum Pumps: Required to maintain high vacuum conditions.

7. Magnification:

- Range: Varies widely depending on the type of microscope and application.
- TEM: Can achieve magnifications of over 1,000,000x.
- SEM: Typically provides magnifications in the range of 10x to 100,000x.

8. Resolution:

- Key Performance Indicator: The ability to distinguish fine details.
- TEM: Can achieve resolutions down to sub-nanometer levels.
- SEM: Typically provides resolutions in the nanometer range.

9. Imaging Modes:

- TEM: Bright-field, dark-field, scanning transmission electron microscopy (STEM).
- SEM: Secondary electron imaging, backscattered electron imaging, energy-dispersive X-ray spectroscopy (EDS).

10. Computer Control:

- Modern microscopes: Often computer-controlled for automated operation,

image acquisition, and data analysis.

Specific Technical Specifications of Microscope Cover Glass (100 Pieces)

- Material:
- Borosilicate Glass: High-quality optical glass with excellent clarity and resistance to chemical attack.
- Thickness:
- Standard: 0.13 - 0.17 mm
- Critical for proper imaging: Consistent thickness is crucial for optimal image quality and accurate measurements.
- Dimensions:
- Standard Size: 22 x 22 mm (square)
- Other sizes available: 18 x 18 mm, 24 x 24 mm, and circular sizes.
- Optical Properties:
- High Refractive Index: Essential for clear image formation.
- Low Autofluorescence: Minimizes background interference in fluorescence microscopy.
- Surface Finish:
- Smooth and Flat: Ensures even contact with the microscope slide and minimizes image distortion.
- Free of Scratches and Imperfections: To avoid interfering with image quality.
- Sterility:
- May be Sterile or Non-Sterile: Sterile

cover glasses are often packaged individually.

- Packaging:
- Quantity: 100 pieces per box or pack.

- Packaging Type: Typically packaged in boxes or plastic containers to protect them from damage.

Key Considerations:

- Thickness Consistency: Consistent thickness is crucial for accurate microscopy measurements.
- Cleanliness: Cover glasses must be clean and free of dust or debris to avoid image artifacts.
- Handling: Handle cover glasses carefully to avoid breakage or scratches.

Image of Microscope Cover Glass:

May-Grünwald Solution (500ml) - Technical Specifications

- Appearance: Deep blue to purple liquid
- Main Components:
- Eosin
- Methylene blue
- Methanol (solvent)
- pH: Slightly acidic
- Storage: Store at room temperature (15-30°C), protected from light and

moisture.

- Shelf Life: Varies depending on manufacturer and storage conditions. Check product label for specific expiration date.
- Safety Precautions:
- Flammable: Methanol is highly flammable. Keep away from heat, sparks, and open flames.
- Irritant: May cause skin and eye irritation. Wear appropriate personal protective equipment (PPE), including gloves, safety glasses, and a lab coat, when handling.
- Hazardous Waste: Dispose of properly according to local regulations.

Uses:

- Histopathology: Used as a stain in the Romanowsky staining technique for blood smears and other cytological preparations.
- Microbiology: May be used in some microbiological staining procedures.

Please Note:

- These are general specifications. Specific details may vary slightly depending on the manufacturer.
- Always refer to the manufacturer's instructions and safety data sheet (SDS) for the most accurate and up-to-date information on handling, storage, and disposal of May-Grünwald solution.

Specific Technical Specifications of a Circumcision Kit

Circumcision kits are used for the surgical removal of the foreskin of the penis. Here are some typical specifications, keeping in mind that the contents and specific requirements may vary depending on the intended use (medical vs. religious) and the target population:

1. Essential Components:

- Scalpel:
- Type: Surgical scalpel with appropriate blade size (e.g., #11, #15).
  - Forceps:
  - Types: Hemostatic forceps (e.g., Kelly clamps), tissue forceps (e.g., Adson forceps).
  - Scissors:
  - Types: Iris scissors, Metzenbaum scissors.
  - Gauze:
  - Sterile gauze pads: For cleaning, drying, and dressing the wound.
  - Antiseptic Solution:
  - Type: Chlorhexidine, povidone-iodine, or other appropriate antiseptic.
  - Local Anesthetic:
  - Type: Lidocaine cream or other suitable local anesthetic.
  - Gloves:
  - Sterile gloves: For the practitioner.

2. Optional Components:
- Needle and Suture:
- For suturing the wound (may not be necessary for all methods).
- Petroleum Jelly:
- To apply to the circumcised area to prevent infection and promote healing.
- Pain Relievers:
- For post-procedural pain management (e.g., acetaminophen).

3. Packaging:
- Sterile Packaging: All components should be individually packaged and sterilized (e.g., by ethylene oxide) to maintain sterility.
- Durable Case: A sturdy, waterproof case for storage and transport.

4. Quality and Safety Standards:
- High-Quality Materials: All components should be made of high-quality materials that are safe for medical use.
- Safety Measures: The kit should include all necessary safety precautions, such as clear instructions and warnings.

Important Considerations:
- Sterility: Maintaining sterility throughout the procedure is crucial to prevent infection.

- Practitioner Training: Proper training and experience are essential for safe and effective circumcision procedures.

Specific Technical Specifications of a Cicero Forceps

Cicero forceps are surgical instruments primarily used for grasping and manipulating tissues during ophthalmic procedures. Here are some typical technical specifications:

- Material:
- Stainless Steel: Typically made of high-

quality stainless steel for durability, corrosion resistance, and easy sterilization.

- Length:
- Overall Length: Varies depending on the specific design, but typically around 10-15 cm.
- Jaws:
- Shape: Fine, delicate tips for grasping delicate tissues.
- Serrations: May have fine serrations on the tips for a secure grip.
- Handles:
- Ergonomic Design: Designed for comfortable and precise manipulation.
- Sterilization:
- Autoclavable: Designed to withstand repeated autoclave sterilization for reuse.
- Finish:
- Satin or Mirror Finish: Provides a smooth surface for easy cleaning and reduces the risk of bacterial contamination.

Image of Cicero Forceps:

Specific Technical Specifications of a Plastic Bowl (Without Lid)

- Material:
- Common Types:
- Polypropylene (PP): Durable, heat-resistant, and commonly used for food contact.
- Polyethylene (PE): Lightweight and flexible, available in different densities (e.g., HDPE, LDPE).
- Polystyrene (PS): Lightweight and inexpensive, but not as durable or heat-resistant as PP.
- Food-Grade: Must be made from food-grade plastic, free from harmful chemicals that can leach into food.
- Shape:
- Round: Most common shape.
- Oval: Can be available in oval shapes for specific uses.
- Square/Rectangular: Less common but available for some applications.

- Dimensions:
- Diameter: Varies widely depending on intended use (e.g., small bowls for snacks, large bowls for mixing).
- Height: Varies depending on the diameter and intended use.
- Features:
- Smooth Surface: Smooth interior and exterior for easy cleaning.
- Stackability: Some bowls are designed to be stackable for efficient storage.
- Microwave-Safe: Some bowls are microwave-safe, allowing for convenient heating of food.
- Dishwasher-Safe: Most plastic bowls are dishwasher-safe for easy cleaning.
- Color:
- Available in a variety of colors (e.g., white, black, red, blue).

Image of a Plastic Bowl (Without Lid):
Please Note:

A Neubauer counting chamber, also known as a hemocytometer, is a specialized microscope slide used to count cells in a sample. Here are its key technical specifications:

- Material: High-quality optical glass
- Dimensions: Standard microscope slide size (approximately 75 x 25 mm)
- Central Platform: A central platform with precisely etched grids
- Grid Pattern:
- Neubauer Improved: The most common type, featuring nine large squares, each 1 mm x 1 mm.
- The central square is further subdivided into 25 smaller squares.
- Other Variations: Some variations exist with slightly different grid patterns.
- Depth: A precisely defined depth (usually 0.1 mm) created by the platform and a special coverslip.
- Volume: The volume of each small

square is known, allowing for accurate cell counts and concentration calculations.

Key Features:

- Precision Engineering: The grids are etched with high precision to ensure accurate cell counts.
- Durability: Made of high-quality glass to withstand repeated use and cleaning.
- Versatility: Used for counting various types of cells, including blood cells, sperm cells, and other microorganisms.

Image of a Neubauer Counting Chamber:

Specific Technical Specifications of a Triple-Layer Extension for IV Catheter

Triple-layer extension sets are used to connect IV catheters to infusion lines, allowing for greater flexibility and patient mobility during intravenous therapy. Here are some typical technical specifications:

1. Material:
- Three Layers:
- Inner Layer: Typically made of polyethylene or other biocompatible polymers.
- Middle Layer: Often made of reinforced materials like polyester or polyurethane for strength and kink resistance.
- Outer Layer: Usually made of a flexible, transparent material like PVC or polyurethane.

2. Connectors:
- Male Luer Lock Connector: Connects to the IV catheter.
- Female Luer Lock Connector: Connects to the infusion line.

3. Length:
- Available in Various Lengths: Common lengths include 15cm, 30cm, and 60cm.

4. Flexibility:
- Kink Resistant: Designed to minimize the risk of kinking, which can obstruct fluid flow.

5. Biocompatibility:
- Non-Pyrogenic: Free from fever-producing substances.
- Latex-Free: To minimize the risk of allergic reactions.

6. Sterility:
- Sterile: Individually packaged and sterilized (typically by ethylene oxide) for single use.

7. Other Features:
- Radiopaque Stripe: May include a radiopaque stripe for visualization during X-ray procedures.
- Drip Chamber: Some models may incorporate a drip chamber for visual monitoring of fluid flow.

Image of a Triple-Layer IV Extension Set:

Specific Technical Specifications of Foerster Forceps 24cm

Foerster forceps are surgical instruments primarily used to hold and manipulate sponges during surgical procedures. Here are some typical technical specifications for a 24cm Foerster forceps:

- Material:
- Stainless Steel: Typically made of high-quality stainless steel for durability, corrosion resistance, and easy sterilization.
- Length:
- Overall Length: 24cm (approximately 9.5 inches)
- Jaw Length: Varies depending on the specific design.
- Jaws:

- Shape: Usually straight, but curved versions are also available.
- Serrations: Serrated jaws for a secure grip on sponges.
- Handles:
- Ergonomic Design: Designed for comfortable and secure grip.
- Sterilization:
- Autoclavable: Designed to withstand repeated autoclave sterilization for reuse.
- Satin or Mirror Finish: Provides a smooth surface for easy cleaning and reduces the risk of bacterial contamination.

Image of Foerster Forceps 24cm:

Specific Technical Specifications of a Baby Scale

Baby scales are used to accurately measure the weight of infants. Here are some typical technical specifications for a common digital baby scale:

Manufacturer: [Insert Manufacturer Name] Model: [Insert Model Name]
Weighing Range: 0-20 kg (or higher) Graduation: 1-5 g (high accuracy is crucial for infants)
Accuracy: ±2 g or better Precision: High precision is essential for accurate weight measurements.
Unit of Measurement: Grams (g), kilograms (kg), pounds (lbs) (may be selectable) Tare Function: Allows for the weight of a blanket or towel to be subtracted for accurate baby weight. Hold Function: Temporarily holds the weight reading on the display. Power Source: AC adapter or batteries (some models may have both options) Display: Large, easy-to-read LCD display Dimensions: Compact and lightweight for easy storage and transport
Material: Durable and easy-to-clean materials (e.g., plastic, stainless steel) Safety Features: Stable base, non-slip feet, and smooth, easy-to-clean surfaces.
Additional Features (may vary by model):

- Backlit Display: Improves visibility in low-light conditions.
- Auto-off function: To conserve battery power.
- Memory function: Stores previous weight readings.
- Data transfer capabilities: Some models can connect to computers or other devices for data storage and analysis.

Specific Technical Specifications of a Double Chest Piece Stethoscope

A double chest piece stethoscope is a medical instrument used to listen to sounds within the body, such as heartbeats, lung sounds, and bowel sounds. Here are some typical technical specifications:

Chest Piece:

- Type: Double-sided
- Diaphragm: For high-frequency sounds (e.g., breath sounds, normal heart sounds).
- Bell: For low-frequency sounds (e.g., heart murmurs, abnormal heart sounds).
- Material: Typically stainless steel or chrome-plated brass.
- Size: Varies depending on the model, but usually around 40-50mm in diameter.

Tubes:

- Material: Usually made of high-quality PVC or latex-free material.

- Length: Typically around 60-70 cm.
- Number: Two tubes connecting the chest piece to the earpieces.
- Features:
- Y-piece: Connects the two tubes together.
- Reinforced: May have internal springs for added durability and to prevent kinking.

Earpieces:
- Material: Soft, flexible material (e.g., silicone, rubber).
- Fit: Comfortable and snug fit to minimize ambient noise.
- Angle: Adjustable to fit the user's ear anatomy.

Acoustic Sensitivity:
- Frequency Response: Designed to accurately transmit a wide range of sound frequencies.
- Sound Amplification: Varies depending on the model and quality of the stethoscope.

Other Features:
- Anti-chill Ring: Some models have an anti-chill ring around the diaphragm for patient comfort.
- Color: Available in various colors (e.g., black, blue, green).
- Weight: Lightweight and easy to carry.

Specific Technical Specifications of a Hemoglobinometer

Hemoglobinometers are devices used to measure the concentration of hemoglobin in blood. Here's an example of a common digital hemoglobinometer and its typical specifications:

Manufacturer: HemoCue Model: HemoCue Hb 201+
Measurement Method: Photometric method (cyanmethemoglobin method)
Measurement Range: 3.0-25.6 g/dL (30-256 g/L)
Sample Type: Capillary or venous whole blood
Sample Volume: 10 µL
Test Time: Approximately 15 seconds
Accuracy: ± 3% of the measured value or ± 0.3 g/dL, whichever is greater
Precision: Within-run CV ≤ 2%
Memory: Stores up to 1000 results
Power Source: 2 x AAA batteries
Battery Life: Approximately 1000 tests
Dimensions: 142 mm x 70 mm x 27 mm
Weight: 130 g (without batteries)
Display: Large, easy-to-read LCD screen
Other Features:
- Automatic self-check system
- Data transfer via USB port (optional)
- Automatic shut-off function

Specific Technical Specifications of a Female Urinal (Graduated with Lid)

Female urinals are designed to assist individuals who are unable to use a conventional toilet independently. Here are some typical technical specifications:

Material:

- Plastic: Typically made of durable, impact-resistant, and easy-to-clean plastics such as polypropylene or polyethylene.

Capacity:

- Volume: Usually 1000ml (1 liter) or 2000ml (2 liters).

Graduations:

- Measurements: Graduated markings in milliliters (ml) or ounces (oz) for accurate urine volume measurement.

Lid:

- Type: Securely fitting lid to prevent spills and odors.
- Material: Matching plastic material for easy cleaning.

Shape and Design:

- Anatomical Shape: Designed to fit the female anatomy for comfort and ease of use.
- Handle: May include a handle for easier handling and pouring.
- Non-slip Base: Often features a non-slip base to prevent tipping.

Other Features:

- Color: Typically translucent or opaque white for easy visibility.
- Autoclavable: Some models are autoclavable for sterilization and reuse in healthcare settings.

Technical Specifications of a Collin Vaginal Speculum

A Collin vaginal speculum is a reusable medical instrument used to open the vaginal walls during gynecological examinations. Here are some typical technical specifications:

- Material:
- Stainless Steel: Typically made of high-quality stainless steel for durability, corrosion resistance, and easy sterilization.
- Design:
- Two Blades: Consists of two hinged blades that open laterally when a screw mechanism is tightened.
- Sizes: Available in various sizes (e.g., small, medium, large) to accommodate different patient anatomies.
- Length: Approximately 10-15 cm (depending on the size).
- Blade Width: Varies depending on the size (e.g., small: 16 mm, medium: 25 mm, large: 35 mm).
- Features:
- Screw Mechanism: Allows for gradual and controlled opening of the blades.

- Smooth Finish: Polished finish to minimize the risk of tissue irritation.
- Sterilization:
- Autoclavable: Designed to withstand repeated autoclave sterilization for reuse.

Image of a Collin Vaginal Speculum:

Specific Technical Specifications of Single-Use Medical Clothing

Single-use medical clothing, such as gowns, scrubs, and coveralls, play a crucial role in infection control within healthcare settings. Here's a breakdown of typical technical specifications:

1. Material:
- Non-woven fabrics: Most common, typically made of spunbond polypropylene (PP), meltblown polypropylene (MBPP), or a combination (SMS - Spunbond-Meltblown-Spunbond).
- Key properties:
- Fluid resistance: Prevents the penetration of blood, bodily fluids, and other infectious materials.
- Breathability: Allows for air circulation to prevent heat buildup and discomfort.
- Comfort: Soft and comfortable to wear, minimizing skin irritation.
- Strength: Durable enough to withstand normal wear and tear.

2. Design:
- Gowns:
- Styles: V-neck, crew neck, long sleeves, short sleeves.
- Features: Tie closures, hook and loop closures, elastic cuffs, and sometimes integrated head covers.
- Scrubs:
- Styles: Tops and pants, various colors (blue, green, white are common).
- Features: Pockets, elastic waistbands.
- Coveralls:
- Full body coverage: Protects the entire body from head to toe.
- Features: Hood, attached booties, elastic cuffs, and sometimes a zipper closure.

3. Sterility:
- Sterile or Non-Sterile:
- Sterile: Typically used in surgical settings.
- Non-Sterile: Used in other clinical settings where sterility is not required.

4. Packaging:
- Individually packaged: Each garment is typically individually packaged in a sterile or non-sterile pouch or wrapper.
- Bulk packaging: May be packaged in bulk for larger quantities.

5. Perf e Standards:

- AST dards: Many single-use medical garments adhere to ASTM standards, such as ASTM F16 ndard Specification for Fluid Resistant Surgical Gowns) and ASTM F1671 (Standard Spec on for Fluid Resistant Surgical Drapes).

Specifi nical Specifications of a Delivery Kit

Deliver lso known as birthing kits or clean delivery kits, are essential for safe and hygienic childbi ecially in resource-limited settings. Here's a breakdown of typical specifications:

Key Co ts:

- Plas eting:
- Mat eavy-duty, waterproof plastic (e.g., polyethylene)
- Size ally 1-2 square meters
- Pur reates a clean surface for delivery, minimizing infection risk.
- Glov
- Mat atex or nitrile (latex-free options available)
- Qua pairs (sterile)
- Size: s sizes to accommodate different hand sizes
- Cord :
- Mat lastic or metal
- Pur o clamp the umbilical cord after delivery.
- Scalp des:
- Mat tainless steel
- Qua -3 blades
- Pur o cut the umbilical cord.
- Gauz
- Mat bsorbent cotton
- Qua everal pieces
- Pur or cleaning, drying, and dressing the umbilical cord and any minor wounds.
- Soap:
- Type: acterial soap
- Qua bar
- Purp andwashing and general hygiene.

- Cord Ties:
- Material: Strong, sterile string or cord
- Quantity: 2-3 pieces
- Purpose: To tie the umbilical cord after clamping.
- Packaging:
- Material: Waterproof and durable bag (e.g., nylon)
- Purpose: To protect the kit contents from moisture, dirt, and damage.

Additional Considerations:

- Sterility: All components should be sterile or capable of being sterilized before use.
- Durability: The kit should be able to withstand transportation and storage in challenging conditions.
- User-friendliness: The kit should be easy to use, even by untrained personnel.
- Cultural Sensitivity: The design and contents of the kit should be culturally appropriate for the intended users.

Specific Technical Specifications of a Minor Surgery Kit

Minor surgery kits are designed for a variety of minor surgical procedures, such as incision and drainage, lesion removal, and minor laceration repair. The specific contents and specifications can vary significantly depending on the manufacturer and intended use.

Here's an example of a typical minor surgery kit and its potential specifications:

Kit Contents (may vary):

- Instruments:
- Forceps: Various types (e.g., Adson, Brown, Kelly) with different sizes and tooth configurations.
- Metzenbaum scissors.
- Scalpel handles: With various blade sizes (e.g., #10, #11, #15).
- Needle holders: Curved and straight.
- Retractors: Small retractors (e.g., Senn retractors).
- Hemostats: Various sizes and types (e.g., Kelly, Crile).
- Consumables:
- Sterile gloves: Various sizes.
- Sterile drapes and towels:
- Gauze sponges:
- Sterile dressings:
- Local anesthetic:

- Sutures: Various sizes and types (e.g., absorbable, non-absorbable).
- Needles
- Storage
- Case: Rigid or semi-rigid case for transport and storage.
- Trays: May include trays for organizing instruments.

Technical Specifications (for instruments):
- Material: High-quality stainless steel.
- Finish: Satin or mirror finish.
- Sterilization: Autoclavable.
- Durability: Designed for repeated use and sterilization.

Image of a Minor Surgery Kit:
Please Note:
- This is a general example, and the actual contents and specifications of a minor surgery kit can vary significantly.
- Always refer to the manufacturer's instructions and product information for the most accurate and up-to-date specifications.

Specific Technical Specifications of Safety Glasses
Safety glasses are essential personal protective equipment (PPE) designed to protect the eyes from potential hazards in various work environments. Here are some key technical specifications:
1. Lens Material:
- Polycarbonate: Most common due to its high impact resistance, light weight, and ability to withstand a wide range of chemicals.
- CR-39: Offers good impact resistance and optical clarity.
- Glass: While less common due to shatter risk, some specialized safety glasses use glass for its superior optical clarity and scratch resistance.

2. Lens Coatings:
- Anti-fog: Prevents fogging in humid or high-temperature environments.
- Anti-scratch: Increases durability and extends the life of the lenses.
- UV protection: Blocks harmful ultraviolet (UV) radiation.

3. Frame Material:
- Nylon: Lightweight, flexible, and comfortable.
- Polycarbonate: Durable and impact-resistant.
- Metal: Often used for frames with side shields for added protection.

4. Frame Features:
- Adjustable temples: Allow for a comfortable and secure fit.

- Nose pads: Adjustable for a customized fit and to prevent slippage.
- Side shields: Protect the eyes from impacts from the sides.
- Headband: Some safety glasses have headbands for added security in high-impact environments.

5. Impact Resistance:
- ANSI Z87.1: This is the primary safety standard for eye protection in the United States. It specifies minimum impact resistance requirements for different types of eye protection.

6. Optical Clarity:
- Clarity: The lenses should provide clear and undistorted vision.
- Optical Distortion: Minimal optical distortion is crucial for tasks that require precision.

Technical Specifications of EDTA Tube (100 Pack)

EDTA tubes are used for collecting blood samples for various hematology tests. Here are some typical technical specifications for a pack of 100 EDTA tubes:
- Material:
- Tube: Typically made of PET (polyethylene terephthalate) plastic.
- Cap: Rubber or plastic cap with a color code (usually purple or lavender) for easy identification.
- Size:
- Standard sizes: 2 ml, 3 ml, 4 ml, 7 ml, 10 ml
- Dimensions: Vary depending on the size (e.g., 13x75mm for a 2ml tube)
- Additive:
- EDTA (Ethylenediaminetetraacetic acid): An anticoagulant that prevents blood clotting by chelating calcium ions.
- Types: EDTA K2 or EDTA K3 are commonly used.
- Draw Volume:
- Varies depending on the tube size (e.g., 2 ml for a 2ml tube).
- Sterility:
- Sterile, individually packaged to maintain sterility.
- Packaging:
- Typically packaged in boxes of 100 tubes.
- Storage:
- Store at room temperature (4-25°C).

Image of EDTA Tube:

Technical Specifications of a Treatment Trolley (Example)

Treatment trolleys, also known as medical carts or procedure carts, are essential for transporting and organizing medical supplies and equipment. Here are some typical technical specifications:
Overall Dimensions:

- Length: 60-90 cm (varies depending on the model)
- Width: 40-60 cm
- Height: 80-100 cm (adjustable height is common)

Material:

- Frame: Stainless steel (most common) for durability, corrosion resistance, and easy cleaning. Some models may use aluminum or other materials.
- Shelves/Drawers: Stainless steel, plastic (e.g., polypropylene), or a combination.

Shelves/Drawers:

- Number: 2-4 shelves and 1-3 drawers are common.
- Type: Fixed shelves, adjustable shelves, or a combination. Drawers may have dividers for organization.

Castors:

- Number: Typically four swivel castors with brakes for stability and maneuverability.
- Size: 50-75 mm diameter

Other Features:

- Side Rails: Some models have side rails for added stability and to prevent items from falling off.
- Handles: Push handles or recessed handles for easy maneuverability.
- Locking Mechanism: Central locking system for all four castors.
- Weight Capacity: Typically 50-100 kg.

Technical Specifications of a Treatment Tray (Example)
Treatment trays are used in various healthcare settings to organize and transport medical supplies and instruments. Here are some typical technical specifications:
Material:

- Stainless Steel: Most common, known for durability, corrosion resistance, and easy cleaning.
- Plastic: Some trays are made of plastic (e.g., polypropylene) which is lightweight and autoclavable.

Dimensions:

- Size: Varies greatly depending on the intended use (e.g., small for bedside procedures, larger for surgical procedures).
- Typical Sizes: 30x40cm, 40x60cm, 50x70cm
- Depth: Usually shallow, around 5-10cm.

Features:

- Handles: May have handles for easy carrying.

- Dividers: Some trays have removable dividers to organize instruments and supplies.
- Lip: May have a lip around the edge to prevent spills.
- Non-slip surface: Some trays have a non-slip surface to prevent instruments from sliding.

Other Considerations:
- Sterilization: Must be compatible with autoclave sterilization.
- Durability: Able to withstand repeated use and cleaning.
- Ease of Cleaning: Smooth surfaces for easy cleaning and disinfection.

Technical Specifications of a Kidney Dish
Kidney dishes are shallow, kidney-shaped containers used in various medical settings, primarily for holding surgical instruments, receiving specimens, or collecting fluids. Here are some typical technical specifications:
Material:
- Stainless Steel: The most common material, known for its durability, corrosion resistance, and easy cleaning.
- Plastic: Some kidney dishes are made of plastic, such as polypropylene, which is lightweight and autoclavable.

Dimensions:
- Size: Various sizes are available, typically ranging from small to large depending on the intended use.
- Depth: Usually shallow, with a depth of around 2-4 cm.

Shape:
- Kidney-shaped: The characteristic kidney shape provides a convenient and ergonomic design for holding instruments and collecting fluids.

Other Features:
- Lip: Some kidney dishes have a small lip or rim around the edge to prevent spills.
- Handles: Some models may have small handles for easier carrying and handling.
- Sterility: Kidney dishes are typically autoclavable for sterilization and reuse.

Technical Specifications of 70% Alcohol Hand Sanitizer (500ml)
- Active Ingredient: Ethyl Alcohol (70% v/v)
- Inactive Ingredients: Water, Glycerin, Hydrogen Peroxide, Carbomer, Triethanolamine
- Appearance: Clear, viscous gel
- Volume: 500 ml
- Packaging: Typically in a plastic bottle with a pump dispenser
- Shelf Life: 24 months from the date of manufacture (when stored properly)
- Storage: Store at room temperature in a cool, dry place, away from direct sunlight and heat sources.

Key Points:

- Alcohol Concentration: The 70% alcohol content is crucial for its effectiveness in killing germs.
- Inactive Ingredients: These ingredients help to thicken the gel, moisturize the skin, and prevent the alcohol from drying out the hands.
- Pump Dispenser: Provides a hygienic and convenient way to dispense the sanitizer.
- Storage: Proper storage helps to maintain the product's efficacy and prevent degradation.

Technical Specifications of a Baby's Cot with Mattress (Example)

Cot Frame:

- Manufacturer: [Insert Manufacturer Name]
- Model: [Insert Model Name]
- Overall Dimensions: 130 cm (L) x 70 cm (W) x 90 cm (H) (approx.)
- Material: Wood (e.g., pine, beech) or metal (e.g., steel)
- Finish: Painted or stained (non-toxic finishes)
- Slats: Wooden slats with spacing conforming to safety standards (e.g., no wider than 6.5 cm)
- Drop-Side: May or may not have a drop-side (check local regulations as drop-sides are banned in some countries)
- Castors: Four castors with brakes for mobility and stability

Mattress:

- Size: Standard cot mattress size (e.g., 120 cm x 60 cm)
- Thickness: Approximately 10-12 cm
- Material: Firm, supportive foam or spring core
- Cover: Waterproof, breathable, and removable for easy cleaning
- Fire Retardancy: Meets relevant safety standards

Additional Features:

- Adjustable Base: Some cots have adjustable base heights for different stages of baby's development.
- Convertible to Toddler Bed: Some cots can be converted into toddler beds as the child grows.
- Storage Drawers: Some cots have built-in storage drawers for convenience.

Technical Specifications of Pozzi Forceps (Single Use)

Pozzi forceps are a type of tenaculum forceps commonly used in gynecological procedures. Here are some typical technical specifications for single-use Pozzi forceps:

Material:

- Jaws: Made of high-quality stainless steel for strength and durability.
- Handles: Made of a durable plastic material for easy handling and control.

Design:

- Length: Approximately 25-30 cm (can vary slightly depending on the manufacturer)
- Jaws: Single-toothed for grasping and manipulating tissues.
- Handles: Ergonomically designed for comfort and ease of use.
- Sterility: Individually packaged and sterilized (typically using ethylene oxide) for single use.

Packaging:

- Individually packaged in sterile peel pouches or blister packs.
- May be sold in boxes of 10, 20, or more units.

Image of Single-Use Pozzi Forceps:

Technical Specifications of a Drip Stand (Example)

Drip stands, also known as IV stands, are medical devices used to hold and administer intravenous fluids. Here are some typical technical specifications for a common drip stand model:

Overall Dimensions:

- Height: Adjustable, typically between 100-200 cm
- Base Diameter: Approximately 40-50 cm

Material:

- Base: Heavy-duty metal or plastic for stability
- Pole: Metal (often stainless steel) for durability and easy cleaning
- Hook: Metal or plastic hook for securely hanging IV bags

Height Adjustment:

- Manual: Typically using a screw mechanism or lever
- Electric: Motorized adjustment for precise height control (less common)

Castors:

- Number: Usually four castors for easy mobility
- Type: Swivel castors with brakes for stability

Weight Capacity:

- Typically designed to hold multiple IV bags with a total weight capacity of several kilograms

Technical Specifications of Cheron Forceps (Single Use)

Cheron forceps are medical instruments used in gynecological procedures, primarily for holding and manipulating tissues or instruments during procedures like IUD insertion or removal. Here are some typical technical specifications for single-use Cheron forceps:

Material:

- Jaws: Made of high-quality polycarbonate for a secure grip and durability.
- Handles: Made of a durable plastic material for easy handling and control.
- Design:
- Length: Approximately 25-30 cm (can vary slightly depending on the manufacturer)
- Jaws: Serrated for a secure grip on tissues and instruments.

- Handles: Ergonomically designed for comfort and ease of use.

- Sterility: Individually packaged and sterilized (typically using ethylene oxide) for single use.
- Individually packaged in sterile peel pouches or blister packs.
- May be sold in boxes of 10, 20, or more units.

Image of Single-Use Cheron Forceps:

Technical Specifications of a Fetal Doppler (Example)

Fetal dopplers are handheld devices used to detect and monitor a fetus's heartbeat. Here are some typical technical specifications for a common fetal doppler model:

Manufacturer: Angel Sounds Model: JPD-100

Frequency: 2-3 MHz Sensitivity: High sensitivity for early detection (as early as 10-12 weeks of gestation) Display: LCD screen displaying fetal heart rate (FHR) Sound Output: Built-in speaker with adjustable volume Power Source: 2 AAA batteries Battery Life: Approximately 40 hours of continuous use Dimensions: Compact and lightweight for easy portability Accessories: Comes with ultrasound gel, carrying case, and user manual

Additional Features:

- Automatic FHR calculation and display
- Low battery indicator
- Waterproof probe for easy cleaning

Technical Specifications of a Glucometer (Example)

Glucometers are devices used to measure blood glucose levels. Here are some typical technical specifications for a common glucometer model:

Manufacturer: Accu-Chek Model: Accu-Chek Instant

Measurement Range: 20-600 mg/dL (1.1-33.3 mmol/L) Accuracy: * Within ±15 mg/dL or ±15% of the true glucose concentration, whichever is greater, for glucose values ≥ 100 mg/dL * Within ±15 mg/dL for glucose values < 100 mg/dL Sample Volume: 0.6 µL Test Time: Approximately 5 seconds Memory Capacity: Up to 720 results Power Source: 3V lithium battery (CR2032) Operating Temperature: 4-45°C Operating Humidity: 10-90% RH Dimensions: 77.1 x 48.6 x 15.3 mm Weight: Approximately 43 g (with batteries) Connectivity: USB port for data transfer to a computer

Additional Features:

- Target Range Indicator: Indicates if the blood glucose reading is above, below, or within the target range.
- Meal Marker: Allows users to mark readings taken before or after meals.
- Pre- and Post-Meal Averages: Calculates average blood glucose readings before and after meals.
- 7, 14, and 30-Day Averages: Calculates average blood glucose readings over different time periods.

Image of Accu-Chek Instant Glucometer

Technical Specifications of a Delivery Bed

Delivery beds, also known as obstetric tables, are specialized medical equipment designed to facilitate childbirth. Here are some typical technical specifications:

Overall Dimensions:

- Length: Approximately 180-200 cm
- Width: Approximately 70-80 cm
- Height: Adjustable, typically between 60-90 cm

Frame:
- Material: Typically made of stainless steel or powder-coated steel for durability and easy cleaning.
- Sections: Most delivery beds have three sections:
- Backrest: Adjustable for patient comfort and to assist with procedures.
- Leg Section: Can be raised or lowered to facilitate delivery and post-delivery procedures.
- Foot Section: May be removable or foldable.

Height Adjustment:
- Manual: Hand crank or hydraulic system for adjusting height.
- Electric: Motorized adjustment for precise height control.

Trendelenburg/Reverse Trendelenburg:
- Tilting Mechanism: Allows for tilting the bed head-down (Trendelenburg) or foot-down (Reverse Trendelenburg) for various medical procedures.

Other Features:
- Armrests: Swiveling or detachable for patient comfort and access.
- Leg Holders: Built-in or detachable for supporting the patient's legs.
- Castors: Swiveling castors with brakes for easy mobility and stability.
- Upholstery: Durable, waterproof, and easy-to-clean upholstery.
- Accessories: May include attachments for stirrups, anesthesia screens, and other medical equipment.

Technical Specifications of a Pasteur Pipette (100 Pack)
Pasteur pipettes are simple, disposable tools used to transfer small amounts of liquid in laboratories. Here are some typical technical specifications for a pack of 100 Pasteur pipettes:
- Material:
- Glass: Traditionally made of soda-lime glass.
- Plastic: Modern versions are often made of polyethylene (PE) or polypropylene (PP) for added safety and convenience.
- Length: Approximately 150mm (can vary slightly depending on the manufacturer)
- Tip Diameter: Narrow and tapered for precise liquid transfer
- Sterility: May be sterile or non-sterile. Sterile pipettes are typically individually wrapped or packaged in a sterile environment.

Packaging: Packaged in bulk or individually wrapped for convenience and sterility.

- Quantity: Pack of 100 pipettes

Additional Considerations:

- Calibration: Pasteur pipettes are not typically calibrated for precise volume measurements. They are used for approximate transfers.
- Disposable: Designed for single use to prevent contamination.
- Applications: Widely used in various laboratory settings, including microbiology, chemistry, and biology.

Please Note:

- Specific technical specifications may vary depending on the manufacturer and intended use.
- Always refer to the manufacturer's instructions or product information for the most accurate and up-to-date specifications.

Specific technical specifications for a typical hospital bed and mattress:

Bed Frame:

- Model: Contra 1
- Overall Dimensions: 228 cm (L) x 99 cm (W) x 48.5-88.5 cm (H)
- Weight Capacity: 227 kg (500 lbs)
- Height Adjustment: Electric, 48.5-88.5 cm
- Backrest Angle: 0-70 degrees
- Knee Rest Angle: 0-45 degrees
- Trendelenburg/Reverse Trendelenburg: +/- 12 degrees
- Side Rails: Two-section, full-length, height adjustable, removable
- Fire Retardancy: Meets NFPA 701 standards
- Decubitus Ulcer Prevention: Alternating pressure system with 24 cells

- Color: White

Technical Specifications of a Simple Hospital Bed

Basic Dimensions:

* Length: 2000-2200 mm (78.7-86.6 inches)
* Width: 900-1000 mm (35.4-39.4 inches)
* Height: 400-800 mm (15.7-31.5 inches) adjustable

Frame and Structure:

* Material: Steel with powder coating or chrome plating for durability and corrosion resistance
* Construction: Strong and rigid frame with welded joints
* Castors: Four swivel castors with brakes for easy mobility and stability

Bed Base:

* Material: Steel slats or mesh for ventilation and support
* Flexibility: Adjustable for comfort and patient positioning

Head and Footboards:

* Material: Steel with optional plastic or wood coverings
* Height: Sufficient to prevent patient falls

Safety Features:

* Side Rails: Two removable or folding side rails to prevent falls
* Weight Capacity: 200-250 kg (440-550 lbs)

Technical specifications for a triple-layer extension for IV catheters:

* Material:
  * Tubing: Typically made of tri-layer polyethylene or similar materials. This construction provides kink resistance, flexibility, and compatibility with various IV solutions and medications.
  * Connectors: Luer lock connectors are standard, ensuring a secure and leak-proof connection to the IV catheter and other infusion devices.
* Length: Available in various lengths (e.g., 15 cm, 30 cm, 60 cm) to accommodate different clinical needs and patient positioning.
* Sterility: Sterile, single-use devices to maintain aseptic technique and reduce the risk of infection.
* Compatibility: Compatible with a wide range of IV catheters and infusion devices.
* Pressure Rating: Designed to withstand typical infusion pressures.
* Kink Resistance: The tri-layer construction helps to minimize the risk of kinking, which can obstruct fluid flow.
* Flexibility: Allows for ease of use and patient comfort.
* Transparency: Transparent tubing allows for visual inspection of the fluid flow.
* Biocompatibility: Non-pyrogenic and latex-free to minimize the risk of adverse reactions.

Technical Specifications of Tracheal Tubes (Oral/Nasal)

Material:

* Main Body: Polyvinyl chloride (PVC) or other biocompatible plastics
* Cuff: Low-pressure, high-volume cuff made of thin, elastic material

Dimensions:

* Internal Diameter (ID): Available in various sizes (e.g., 6.0 mm, 7.0 mm, 8.0 mm) to accommodate different patient anatomies
* External Diameter (OD): Varies depending on the ID
* Length: Typically 21 cm to 30 cm, but can vary depending on the manufacturer and intended use

Cuff:

* Type: High-volume, low-pressure cuff to minimize tracheal mucosal injury
* Inflation Volume: Varies depending on the tube size
* Inflation Pressure: Typically 20-30 cm H2O

Other Features:

* Radiopaque Line: Embedded in the tube wall for X-ray visualization
* Murphy Eye: A small side hole near the tip to allow for gas exchange if the main lumen becomes obstructed

* Pilot Ball: Attached to the cuff for inflation and deflation
* Connector: Standard 15 mm connector for attachment to breathing circuits
* Stylet: A flexible wire insert to help guide the tube during insertion

Technical Specifications of a Transparent Film Fixation Dressing 15cmx20cm

Material:
* Film: Thin, flexible polyurethane film
* Adhesive: Acrylic-based adhesive

Dimensions:
* Length: 15 cm
* Width: 20 cm

Features:
* Waterproof: Protects the wound or catheter site from water, bacteria, and other external contaminants
* Breathable: Allows moisture vapor to escape, reducing the risk of maceration
* Transparent: Enables easy visualization of the wound or catheter site without removing the dressing
* Flexible: Conforms to the contours of the body
* Radiolucent: Compatible with X-ray imaging
* Sterile: Single-use, sterile packaging to maintain asepsis

Applications:
* Wound protection: Covers and protects minor wounds, burns, and abrasions
* Catheter site fixation: Secures catheters (IV, PICC, etc.) to the skin
* Device fixation: Holds other medical devices in place

Technical specifications of Spiral Flow Component
* Material: Typically made of flexible plastic or silicone
* Design Features: Features internal spiral ridges that create a gentle, swirling flow of liquid or medication to prevent clogging or kinking of the tube
* Length Variations: Available in various lengths depending on the specific application and patient needs
* Compatibility: Compatible with most standard NG tubes and feeding tubes

Soft Clip Component:
* Material: Typically made of flexible plastic or silicone
* Design: Designed to gently secure the feeding tube to the patient's nose or skin without causing discomfort or irritation
* Features: May include adjustable straps or other features for a secure and comfortable fit

Technical Specifications of a Suction Machine

Suction Power:
* Maximum Vacuum: Typically measured in millimeters of mercury (mmHg) or kilopascals (kPa). Common ranges are 600-800 mmHg or 80-106 kPa.
* Flow Rate: Measured in liters per minute (L/min). Common ranges are 20-40 L/min.

Power:
* Voltage: 220-240V AC, 50/60Hz
* Power Consumption: Varies depending on the model and suction power.

Noise:
* Measured in decibels (dB). Lower noise levels are generally preferred in clinical settings.

Bottle Capacity:
* Measured in liters (L). Common sizes include 1L, 2L, and 3L.

Safety Features:
* Overflow protection: Prevents fluids from entering the motor.
* Vacuum gauge: Indicates the level of suction.
* On/Off switch: Easy to operate.
* Foot pedal: Optional for hands-free operation.
* Filter: Traps particles and prevent contamination.

Portability:
* Weight: Varies depending on the model. Portable units are typically lighter.
* Wheels: Some models have wheels for easy transport.

Technical Specifications of Nose Clips

Material:
* Body: Typically made of silicone, rubber, or plastic
* Nose Pads: Often made of soft silicone or rubber for comfort

Dimensions:
* Size: Varies to fit different nose sizes and shapes
* Weight: Lightweight for comfort and ease of use

Features:
* Spring-loaded: Allows the nose clip to adjust to different nose shapes
* Adjustable Strap: Secures the nose clip in place
* Nose Pads: Provide comfort and prevent pinching
* Waterproof: Prevents water from entering the nose during swimming or water activities
* Reusable: Can be cleaned and reused multiple times

Technical Specifications of a Sphygmomanometer

Type:
* Aneroid: A mechanical device with a dial and needle to indicate pressure.
* Digital: An electronic device with a digital display.
* Mercury: A type of aneroid sphygmomanometer that uses mercury in the manometer. (Note: Mercury sphygmomanometers are being phased out due to environmental concerns.)

Accuracy:
* Aneroid: Typically accurate to within ±3 mmHg.
* Digital: Typically accurate to within ±2 mmHg.

Pressure Range:
* Typically 0-300 mmHg.

Cuff Size:
* Available in various sizes for adults, children, and infants to ensure accurate readings.

Other Features:
* Inflation Bulb: Used to inflate the cuff.
* Deflation Valve: Used to slowly release air from the cuff.
* Stethoscope Connector: For listening to heart sounds (for aneroid sphygmomanometers).
* Power Source: Batteries (for digital sphygmomanometers).
* Memory Function: Stores previous readings (for some digital models).
* Average Function: Calculates the average of multiple readings (for some digital models).

Technical specifications that might be relevant to a typical 3-valve kit:

Components:
* 3-Way Stopcock:
  * Material: Usually made of medical-grade plastic or metal
  * Ports: Three ports for connecting to different lines or devices
  * Function: Allows for controlling the flow of fluids between different lines or devices
* Other Components:
  * Connectors: Luer lock connectors or other types for secure connections
  * Tubing: Flexible tubing for connecting components
  * Clamps: For controlling fluid flow in specific lines
  * Other accessories: Depending on the specific application, the kit might include additional components such as filters, syringes, or measurement devices.

Applications:
* Vascular Access: Used in procedures involving central venous catheters, arterial lines, or other vascular access devices.
* Fluid Management: Used in various clinical settings for managing fluids, medications, and blood products.

Technical Specifications of a Pulse Oximeter

Measurement Range:

* SpO2 (Oxygen Saturation): 70-100%
* Pulse Rate (PR): 30-250 beats per minute (bpm)

Accuracy:

* SpO2:
  * 70-100%: 2% (no motion, low perfusion)
  * 70-100%: 3% (motion)
* Pulse Rate: 2 bpm or ±2% of the measured value (whichever is greater)

Resolution:

* SpO2: 1%
* Pulse Rate: 1 bpm

Display:

* Type: LCD display (usually OLED)
* Parameters: SpO2, Pulse Rate, Pulse Bar Graph (often included)
* Modes: Various display modes may be available

Power Source:

* Batteries: Typically 2 AAA batteries
* Battery Life: Varies depending on usage and battery type

Physical Characteristics:

* Size: Compact and lightweight for portability
* Weight: Usually less than 100 grams

Safety Features:

* Low Battery Indicator: Alerts user when battery power is low
* Automatic Shut-Off: Powers off after a period of inactivity to conserve battery

Technical Specifications of an Ambu Bag

Material:

* Bag: Typically made of soft, flexible silicone rubber
* Mask: Silicone or PVC with soft, pliable edges

Dimensions:

* Bag Size: Varies depending on the intended use (e.g., adult, pediatric, neonatal)
* Mask Size: Various sizes to fit different patient sizes

Features:

* Self-Inflating Bag: Fills with air when squeezed
* One-Way Valve: Prevents exhaled air from re-entering the bag
* Pressure Limiting Valve: Prevents excessive pressure from being delivered to the patient's lungs
* Oxygen Reservoir Port: Allows for the delivery of supplemental oxygen
* Mask:
  * Anatomically shaped for a good seal
  * Many have straps for secure attachment to the patient's face

Technical Specifications of a Glucometer

Measurement Range:

* Typically 20-600 mg/dL or 1.1-33.3 mmol/L (depending on the model)

Accuracy:

* Varies depending on the model and manufacturer. Generally, it should meet ISO 15197 standards for accuracy.

Resolution:

* Usually 1 mg/dL or 0.1 mmol/L

Test Time:

* Varies depending on the model, typically 5-15 seconds

Power Source:

* Batteries: Usually button-cell batteries)

Memory:

* Some models have memory to store previous readings

Other Features:

* Backlit Display: Improves readability in low light conditions
* Blood Sample Size: Typically requires a very small blood sample
* Automatic Shut-Off: To conserve battery power
* Connectivity: Some models can connect to smartphones or computers for data tracking and management

Technical specifications of a Ciceron forceps, also known as a Babcock forceps :

* Material: Stainless steel
* Length: Typically around 12-15 cm
* Jaws: Smooth, atraumatic jaws designed to gently grasp and hold tissues without causing damage.
* Shape: Curved or straight, depending on the specific application.
* Ratchet Mechanism: A locking mechanism that secures the jaws in place.

Technical specification of a delivery:

Instruments:

* Forceps: Used to assist in the delivery of the baby's head.
* Scissors: Used to cut the umbilical cord.
* Scalpel: Used for performing an episiotomy (a small incision made in the perineum to enlarge the vaginal opening).
* Amniohook: Used to rupture the amniotic sac (break the water).
* Suction: Used to clear the baby's airway of fluids.
* Needle holders: Used to hold needles for suturing.
* Hemostatic forceps: Used to clamp blood vessels.

Supplies:

* Gloves: Sterile gloves for the medical professionals.
* Drapes: Sterile drapes to create a sterile field.
* Gauze: Used for cleaning and absorbing fluids.
* Syringes and needles: Used for administering medications.
* Umbilical cord clamps: Used to clamp the umbilical cord.

Other items may include:

* Episiotomy repair kit: Contains sutures and other supplies for repairing an episiotomy.
* Fundal massage kit: Contains supplies for performing fundal massage to help the uterus contract after delivery.

Technical Specifications of a Binocular Microscope

Binocular Microscope

A binocular microscope is a type of microscope that uses two eyepieces to provide a three-dimensional view of a specimen. This type of microscope is commonly used in laboratories, schools, and hospitals.

Key Technical Specifications

Here are some of the key technical specifications that you should consider when purchasing a binocular microscope:

* Magnification:
  * Eyepiece Magnification: Typically 10x, but can range from 5x to 20x.
  * Objective Magnification: Usually 4x, 10x, 40x, and 100x.
  * Total Magnification: Calculated by multiplying the eyepiece magnification by the objective magnification. For example, a 10x eyepiece with a 40x objective would provide a total magnification of 400x.
* Numerical Aperture (NA): A measure of the lens's ability to gather light and resolve fine details. Higher NA values result in better resolution.
* Field of View (FOV): The diameter of the circular area visible through the eyepiece. A larger FOV allows for a wider view of the specimen.
* Working Distance: The distance between the objective lens and the specimen when

the specimen in focus. A longer working distance is useful for working with thick specimens or when using specialized techniques.
* Illumination:
  * Light Source: Typically halogen or LED.
  * Intensity Control: Allows for adjustment of the light intensity.
  * Condenser: Focuses the light onto the specimen.
* Focusing Mechanism:
  * Coarse Focus: For initial focusing.
  * Fine Focus: For precise focusing.
* Stage:
  * Mechanical Stage: Allows for precise movement of the specimen.
  * Stage Clips: Hold the specimen in place.
* Head:
  * Binocular Head: Allows for viewing with both eyes.
  * Inclination Angle: The angle at which the eyepieces are tilted.
  * Interpupillary Distance Adjustment: Allows for adjustment of the distance between the eyepieces to match the user's eye spacing.
* Diopter Adjustment: Allows for adjustment of the focus in each eyepiece to compensate for differences in vision between the two eyes.
* Other Features:
* Polarizer: Used to reduce glare and improve contrast.
* Phase Contrast: Used to enhance the contrast of unstained specimens.
* Darkfield: Used to observe unstained specimens that are difficult to see with brightfield illumination.

Technical Specifications for Fehling's Solution

Fehling's Solution is a chemical reagent used to detect the presence of reducing sugars, such as glucose. It is typically sold in two parts: Fehling's Solution A and Fehling's Solution B. These solutions are mixed together in equal volumes just before use.
Here's a breakdown of the general technical specifications for Fehling's Solution:
* Appearance:
  * Solution A: Clear, blue liquid
  * Solution B: Clear, colorless liquid
* Composition:
  * Solution A: Copper(II) sulfate pentahydrate ($CuSO_4 \cdot 5H_2O$)
  * Solution B: Sodium potassium tartrate tetrahydrate (also known as Rochelle salt) and sodium hydroxide (NaOH)
* Shelf Life:
  * When stored properly (cool, dark place), Fehling's Solution can have a shelf life of several months. However, it always best to check the specific expiration date on the product label.
* Storage: Store in tightly sealed containers at room temperature, away from direct sunlight and heat.
* Safety Precautions:
  * Wear appropriate personal protective equipment (PPE), such as gloves, safety glasses, and a lab coat, when handling Fehling's Solution.
  * Avoid contact with skin and eyes.
  * In case of contact, rinse thoroughly with water.
  * Keep out of reach of children.

Technical Specifications of Sims hysterometer

This information is for educational purposes only. For medical advice or diagnosis, consult a professional.
A Sims hysterometer is a medical instrument used to measure the depth of the uterus. Here are some of its specifications:
* Length:

* Material: Typically made of stainless steel
* Tip: Rounded or pointed tip
* Handle: May have a handle or be designed for direct grip
* Graduation: Marked in centimeters

Technical Specifications of fetal Doppler

A fetal Doppler is a handheld ultrasound device used to detect and monitor a fetus's heartbeat. Here are some of its technical specifications:

* Frequency: Typically 2 MHz or 3 MHz
* Power Output: Low-power ultrasound, safe for use during pregnancy
* Sensitivity: Able to detect fetal heartbeats as early as 10-12 weeks of gestation
* Display:
  * Audible: Most models provide an audible tone that corresponds to the fetal heartbeat.
  * Visual: Some models may also include a digital display that shows the fetal heart rate (FHR) in beats per minute (bpm).
* Battery Life: Varies depending on the model, but typically lasts for several hours of continuous use.
* Size and Weight: Compact and lightweight for easy portability.

Technical Specifications of a Baby fat/hydration monitor

Baby fat/hydration monitor scales are not a standard type of medical device. While there are baby scales that measure weight, there are no commercially available scales specifically designed to measure baby fat or hydration levels.

However, some advanced body composition scales designed for adults can estimate body fat percentage and hydration levels. These scales use bioelectrical impedance analysis (BIA) technology, which sends a small electrical current through the body to measure resistance.

Here are some general technical specifications of adult body composition scales that use BIA technology:

* Weight Capacity: Typically up to 180 kg (400 lbs)
* Weight Graduation: 100 g or 0.2 lb
* Body Fat Measurement Range: 5% to 50%
* Hydration Measurement Range: 20% to 70%
* Other Measurements: May also measure muscle mass, bone mass, and basal metabolic rate (BMR)
* Connectivity: Some models may connect to a smartphone app via Bluetooth or Wi-Fi to track data over time

Nasal Cannula + Tubing Technical Specifications

Nasal cannulas are simple devices used to deliver supplemental oxygen to patients. They consist of two prongs that are inserted into the nostrils and connected to a tube that supplies oxygen.

Nasal Cannula Specifications:

* Material: Typically made of soft, flexible plastic (PVC)
* Prong Length: Approximately 1 inch (2.5 cm)
* Prong Separation: Approximately 0.5 inch (1.25 cm)
* Tubing Length: 6-7 feet (1.8-2.1 meters)
* Tubing Diameter: Approximately 1/4 inch (6.4 mm)
* Connector: Standard 15mm male connector

Tubing Specifications:

* Material: PVC or other flexible plastic
* Length: 6-7 feet (1.8-2.1 meters)
* Diameter: Approximately 1/4 inch (6.4 mm)
* Color: Typically clear or translucent
* Flexibility: Flexible to allow for patient movement
* Kink Resistance: Designed to resist kinking conditions or those recovering from surgery. Here are some key technical specifications to consider:

Technical Specifications of Orthopedic Hospital Mattress

* Mattress Type:
  * Innerspring: Traditional design with metal coils for support.

* M: Conforms to body contours, relieving pressure points.
* G: emory Foam: Combines memory foam with cooling gel for added comfort.
* La: Durable and supportive, with good airflow.
* Hy: ines multiple materials, such as innerspring and memory foam, for a balance of support: mfort.
* Firmn:
* Extra: rovides maximum support for heavier individuals or those with severe back pain.
* Firm: ood support for most individuals.
* Medium: Balances support and comfort for average individuals.
* Medium: ble for lighter individuals or those who prefer a softer feel.
* Soft: Pr: maximum comfort for those who sleep on their sides.
* Dimensi:
* Standard: ically 39 inches wide x 75 inches long.
* Extra L: ailable for taller individuals.
* Bariatr: gned for heavier individuals.
* Weight C: y: Varies depending on the mattress type and construction.
* Fire R: y: Meets industry safety standards for fire resistance.
* Water-: d Stain-Resistant: Protects the mattress from fluids and stains.
* Antibacte: nd Anti-Microbial: Helps prevent the growth of bacteria and mold.

Technical: fications of wound Dressing Set

Wound dr: ets typically include a variety of items necessary for the care and treatment of minor in: re are some common components and their specifications:

* Adhesive: ges:
  * Size: sizes to accommodate different wound sizes.
  * Mater: hable fabric with a hypoallergenic adhesive.
  * Featur: r-resistant, flexible, and comfortable.
* Gauze:
  * Size: sizes for different wound sizes.
  * Mater: , absorbent gauze.
  * Featur: e sterile or non-sterile.
* Adhesive:
  * Width: widths.
  * Mater: llergenic adhesive with a cloth or paper backing.
  * Featur: g adhesion, easy to tear.
* Antiseptic: s:
  * Mater: oven fabric impregnated with an antiseptic solution.
  * Featur: acteria and helps prevent infection.
* Scissors:
  * Mater: ess steel.
  * Featur: blades for cutting bandages and gauze.
* Tweezers:
  * Mater: ess steel.
  * Featur: moving splinters or foreign objects from wounds.

Tech: cations of Giemsa Solution 500ml

Giem: idely used laboratory stain, especially in microbiology and pat: e the technical specifications for a typical 500ml bottle of Giemsa rapid solution:

* Compo:
  * Dye: nt: Methylene blue, eosin, and azure dyes dissolved in methanol and glycerol.
  * Addi: include stabilizers and buffers.
* Concen:
  * Dye: f the active ingredients can vary depending on the manufacturer and intended use.
  * Stre: are typically more concentrated than standard Giemsa stains.
* Appe:

* Deep purple or blue-purple liquid
* Storage:
  * Store at room temperature, protected from light.
  * Keep tightly sealed to prevent evaporation and contamination.
* Shelf Life:
  * Typically 1-2 years when stored properly.
  * Refer to the specific product label for the manufacturer's recommended shelf life.
* Safety Precautions:
  * Wear appropriate personal protective equipment (PPE), such as gloves, safety glasses, and a lab coat, when handling Giemsa stain.
  * Avoid contact with skin and eyes.
  * In case of contact, rinse thoroughly with water.
  * Keep out of reach of children.

Technical Specifications simple hospital operating table

A simple hospital operating table is a basic medical device used for patient positioning during surgical procedures. Here are some key technical specifications:

1. Tabletop:
 * Material: Typically made of radiolucent material (e.g., phenolic laminate) to allow for X-ray imaging.
 * Sections: May have multiple sections (head, back, leg) that can be adjusted to a limited extent.
 * Radiolucency: Sufficient for basic X-ray imaging.
2. Base:
 * Material: Sturdy construction, often made of steel.
 * Casters: Large, lockable casters for easy mobility.
 * Stability: Must be stable and resistant to tipping, even with moderate loads.
3. Adjustments:
 * Height Adjustment: Limited range of heights.
 * Backrest Adjustment: Limited range of motion (e.g., -15° to +45°) for basic positioning.
 * Leg Section Adjustment: Limited range of motion (e.g., -15° to +30°) for basic positioning.
 * May lack features like Trendelenburg/Reverse Trendelenburg and lateral tilt.
4. Accessories:
 * May include basic accessories like armrests and headrests.
5. Weight Capacity:
 * Maximum Patient Weight: Typically 150-200 kg (330-440 lbs).
6. Power Requirements:
 * May be manually operated or have basic electric or hydraulic controls.

Technical Specifications of a Simple Theatre Operation Lamp

A simple theatre operation lamp is a basic lighting device used in surgical procedures. Here are some key technical specifications:

* Light Source:
  * Typically halogen bulbs or older incandescent bulbs.
  * May have a single or multiple bulbs.
* Light Intensity:
  * Lower light intensity compared to more advanced surgical lights.
  * Measured in lux (lx).
* Color Temperature:
  * Typically around 4000K, providing a slightly warmer light.
* Focus:
  * May have limited or no focus adjustment.
* Mounting:
  * Often mounted on a simple stand or arm.
* Mobility:
  * Limited mobility compared to more surgical lights.

* Weight:
  * Relativ tweight.

Technic cations of a High Wrist Blood Pressure Monitor

High wri pressure monitors are designed to measure blood pressure at the wrist. Here are some key t l specifications:

* Measur ethod: Oscillometric method (detects changes in blood vessel wall movement)
* Measu ange:
  * Systoli ally 40-280 mmHg
  * Diaste cally 20-199 mmHg
  * Pulse y 40-180 beats per minute (bpm)
* Accu
  * Systolic mHg
  * Diastoli mHg
  * Pulse
* Memor
  * Stor le readings for multiple users (varies by model)
* Displ
  * Lar ead LCD display
  * Displa ic, diastolic pressure, pulse rate, date, and time
* Power So
  * Typic red by batteries (e.g., AAA or AA
* Feature
  * Irr beat detection
  * Dat isplay
  * Aut tion and deflation
  * Cuff s ally fits wrists with circumferences of 13.5-22 cm
* Weight nsions:
  * Comp htweight for easy portability

Tech cations of an Autoclave

Au ential equipment for sterilizing medical instruments and other materials. Here are so l specifications:

1. Chamb d Capacity:
   * Cham e: Varies widely, from small tabletop models to large industrial units. Measured in lit
   * Load C he maximum weight or volume of materials that can be sterilized in a single cycle.
2. Steri ameters:
   * Temp nge: Typically 121°C to 134°C (250°F to 273°F).
   * Pressu Typically 15-30 psi (103-207 kPa).
   * Steril e: Varies depending on the load size, type of load, and desired ste
3. Chamb al:
   * Stainl lost commonly used due to its durability, corrosion resistance, and ease of cle
4. Door Mec :
   * Manual matic: Manual doors require manual locking and unlocking, while automatic doors ha chanisms.
   * Safety : Prevent door opening while the chamber is pressurized.
5. Contro
   * Digital : Digital controls offer more precise temperature and time control.
   * Microp Control: Advanced models may have microprocessor controls with pre-set steriliz and data logging capabilities.
6. Safety

* Pressure Gauge: Monitors chamber pressure.
* Temperature Gauge: Monitors chamber temperature.
* Safety Valves: Release excess pressure to prevent explosions.
* Low Water Level Alarm: Alerts the operator if the water level is too low.
* Door Interlock: Prevents door opening while the chamber is pressurized.
7. Power Requirements:
* Electrical Power: Varies depending on the model and size of the autoclave.

Technical Specifications of a Medical Stool with Back Support

Medical stools with back support are designed for comfort and ergonomic support during extended periods of standing. Here are some key technical specifications:

1. Seat:
* Material: Typically upholstered with durable, easy-to-clean materials like vinyl or leatherette.
* Shape: Round, square, or saddle-shaped for comfort and pressure relief.
* Height Adjustment: Adjustable height using pneumatic gas lift or mechanical mechanisms.
2. Backrest:
* Height: Adjustable to support the user's lumbar region.
* Material: Upholstered with the same material as the seat.
* Angle: May have adjustable angle for customized support.
3. Base:
* Material: Typically chrome-plated steel or powder-coated steel for durability and corrosion resistance.
* Casters: Five-star base with swivel casters for easy maneuverability.
* Footrest: May include a footrest for added comfort and support.
4. Weight Capacity:
* Typically supports up to 250-300 lbs (113-136 kg).
5. Dimensions:
* Seat Height: Adjustable range (e.g., 18-28 inches).
* Overall Height: Varies depending on seat height and backrest height.
* Seat Diameter: Typically 14-18 inches.

Document No. 7:
Schedule of Unit Prices

UNIT PRICE SCHEDULE FOR THE SUPPLY OF MEDICAL EQUIPMENT TO BABUNGO, MBOGHOMBAM AND BANGOLAN INTERGRATED HEALTH CENTRES AND BABA 1 AND BABESSI MEDICALIZED HEALTH CENTRES IN BABESSI COUNCIL MUNICIPALITY, NGOKETUNJIA DIVISION IN NORTH WEST REGION					
SN	**MERCURIAL REF.**	**DESCRIPTION**	**UNIT**	**U.P IN FIGURES (F CFA)**	**U.P IN WORDS (F CFA)**
A		**BABUNGO INTEGRATED HEALTH CETRE**			
1	SR	Centrifuges	U		
2	07-002-200120	Electrical microscope	U		
3	SR	Cover glasses for microscope /100	U		
4	07-002-200104	May Grunwald Solution 500ml	U		
5	07-002-200125	Giemsa Solution 500ml	U		
6	07-002-200126	Fuchsine Solution 500ml	U		
7	SR	Fehling Solution (500ml)	U		
8	SR	Adult scale	U		
9	07-006-200007	Hospital bed with mattress	U		
10	SR	Pasteur pipette/100	U		
11	07-006-200012	Delivery bed	U		
12	SR	Glucometer	U		
13	07-001-200244	Fœtal doppler	U		
14	SR	Cheron forcep (single use)	U		
15	SR	Drip stand	U		
16	SR	Pozzi forcep (single use)	U		
17	SR	Baby's cot with mattresses	U		
18	07-001-200280	Hand Sanitizer 70% 500ml	U		
19	SR	Kidney dish	U		
20	SR	Treatment tray	U		
21	07-006-200005	Treatment trolley	U		
22	07-002-200095	Edta tube /100	U		
23	SR	Safety glasses	U		
24	SR	Minor surgery kit	U		
25	SR	Delivery kit	U		
26	SR	Medical clothing (single use)	U		
27	SR	Collin vaginal speculum	U		
28	SR	Urinal female graduated with lid	U		
29	SR	Hemoglobinometer	U		
30	SR	Double chestpiece stethoscope	U		
31	SR	Baby scale	U		
32	SR	Foerster forcep 24cm	U		
33	SR	Dup stand	U		

34	SR	Triple layer extention for iv catheter	U		
35	SR	Stopper Bottler 500ml	U		
36	SR	Accord ankle brace medium	U		
37	SR	Neu bauer counting chamber	U		
38	SR	Single use kidney bowl	U		
39	SR	Plastic bowl without lid	U		
40	SR	Ciceron forcep	U		
41	SR	Circumcision kit	U		
8		**MBOGOMBAM INTEGRATED HEALTH CETRE**			
1	SR	Centrifuges	U		
2	7-002-200120	Electrical microscope	U		
3	SR	Cover glasses for microscope /100	U		
4	002-200104	May grunwald solution 500ml	U		
5	002-200125	Giemsa solution 500ml	U		
6	7-002-200126	Fuchsine solution 500ml	U		
7	SR	Fehling solution (500ml)	U		
8	SR	Adult scale	U		
9	006-200007	Hospital bed with mattress	U		
10	SR	Pasteur pipette/100	U		
11	006-200012	Delivery bed	U		
12	SR	Glucometer	U		
13	7-001-200244	Fœtal doppler	U		
14	SR	Cheron forcep (single use)	U		
15	SR	Drip stand	U		
16	SR	Pozzi forcep (single use)	U		
17	SR	Baby's cot with mattresses	U		
18	001-200280	Hand sanitizer 70% 500ml	U		
19	SR	Kidney dish	U		
20	SR	Treatment tray	U		
21	006-200005	Treatment trolley	U		
22	002-200095	Edta tube /100	U		
23	SR	Safety glasses	U		
24	SR	Minor surgery kit	U		
25	SR	Delivery kit	U		
26	SR	Medical clothing (single use)	U		
27	SR	Collin vaginal speculum	U		
	SR	Urinal female graduated with lid	U		
	SR	Hemoglobinometer	U		
	SR	Double chestpiece stethoscope	U		
	SR	Baby scale	U		
	SR	Foerster forcep 24cm	U		

33	SR	Dup stand	U		
34	SR	Triple layer extention for iv catheter	U		
35	SR	Stopper bottler 500ml	U		
36	SR	Accord ankle brace medium	U		
37	SR	Neu bauer counting chamber	U		
38	SR	Single use kidney bowl	U		
39	SR	Plastic bowl without lid	U		
40	SR	Ciceron forcep	U		
41	SR	Circumcision kit	U		
C		**BANGOLAN INTEGRATED HEALTH CETRE**			
1	07-006-200007	Hospital bed	U		
2	SR	Matresses	U		
3	SR	Bedside cupboard	U		
4	SR	Drip stand	U		
5	SR	Triple layer extension for iv catheter /2	U		
6	SR	Tracheal tube, oral / nasal	U		
7	SR	Transparent film fixation dressing 15cmx20cm	U		
8	07-006-200005	Treatment trolley	U		
9	SR	Spiral flow and soft clip set /5	U		
10	SR	Suction machine	U		
11	SR	Nose clips /5	U		
12	SR	Sphygmomanometer	U		
13	SR	Convenience kit (3 valves kit)	U		
14	SR	Pulse oxymeter	U		
15	SR	Suction bag + suction tube f/f, ch15, 1,8m	U		
16	SR	Ambu bag	U		
17	SR	Cheron forcep (single use)	U		
18	SR	Pozzi forcep (single use)	U		
19	07-006-200012	Delivery bed	U		
20	SR	Urinal female graduated with lid	U		
21	SR	Glucometer	U		
22	SR	Treatment tray	U		
23	SR	Ciceron forcep	U		
24	SR	Delivery set	U		
25	SR	Inframed thermometer	U		
26	SR	Medical clothing (single use)	U		
27	SR	Children scale	U		
28	07-002-200120	Binocular microscope	U		
29	07-002-200104	May grunwald solution 500ml	U		

02-200126	Fushine solution 500ml	U			
SR	Fehling solution 500ml	U			
02-200095	Edta tube /100	U			
SR	Centrifuge	U			
SR	Hemoglobinometer	U			
SR	Micro pipette	U			
SR	Adult scale	U			
SR	Safety glasses	U			
SR	Kidney dishes	U			
SR	Single use kidney bowl	U			
SR	Pasteur pipette /100	U			
SR	Sims hysterometer 33cm	U			
01-200244	Fœtal doppler	U			
	BABESSI MEDICALIZED HEALTH CENTRE				
01-200244	Foetal doppler	U			
SR	Body fat / hydration monitor scale	U			
SR	Nasal cannula + tubing	U			
06-200007	Hospital bed (Stainless steel)	U			
SR	Orthopedic mattress	U			
06-200005	Treatment trolley	U			
SR	Wound dressing set	U			
SR	Cesarian section kit (set)	U			
SR	Metallic drip stand	U			
SR	Delivery set	U			
SR	Medical clothing (single use)	U			
02-200104	May grunwald solution 500ml	U			
02-200126	Fuchsine solution 500ml	U			
SR	Fehling solution 500ml	U			
SR	Giemsa rapid solution 500ml	U			
02-200095	Edta tube / 100	U			
SR	Electronic sphygmonanometer	U			
01-200038	Hemoglobinometer	U			
SR	Minor surgery kit	U			
SR	Treatment tray	U			
SR	Baby's cot with mattress	U			
SR	Baby scale	U			
06-200012	Delivery bed inox	U			
	BABA 1 MEDICALIZED HEALTH CENTRE				
SR	Operating table	U			
01-200280	Hand sanitizer 70% 500ml	U			
SR	Pulse oximeter	U			
SR	Single use medical clothing	U			
SR	Theatre operation lamp	U			

6	SR	Safety glasses	U		
7	SR	Suction machine	U		
8	SR	Cheron forcep (single use)	U		
9	SR	Pozzi forcep (single use)	U		
10	SR	Urinal female graduated with lid	U		
11	SR	Triple layer extension for iv catether /10	U		
12	07-001-200145	High wrist blood pressure monitor	U		
13	07-002-200120	Binocular microscope	U		
14	SR	Cover glasses for microscope /100	U		
15	07-002-200104	May grunwald solution 500ml	U		
16	07-002-200125	Giemsa solution 500ml	U		
17	07-002-200126	Fuchsine solution 500ml	U		
18	SR	Fehling solution (500ml)	U		
19	07-002-200095	Edta tub /100	U		
20	07-001-200244	Electronic fœtal doppler	U		
21	SR	Plastic bowl without lid	U		
22	SR	Sims hysterometer 33cm	U		
23	SR	Autoclave	U		
24	SR	Medical stool with back support	U		
25	SR	Drip stand	U		