**Government of Khyber Pakhtunkhwa**

**Health Department**

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**STANDARD BIDDING DOCUMENT**

**CONSOLIDATED ADVERTISEMENT NO. {1st}**

**For**

**Procurement of**

**Bio-Medical Equipments, Instruments & General items for the establishment of Gajju Khan Medical College Swabi**

**Under National Competitive Bidding (NCB)**

March 2017

**Note:**

1. The bidder should provide hard and soft copy (in CD) in MS word format, with tender documents
2. Detailed approved Specification are at the end of bid documents

**PREFACE**

These Standard Bidding Documents have been prepared for the Procurement of Bio-Medical equipment, Hospital Supplies and Other General items for Directorate General Health Services, Khyber Pakhtunkhwa and other Health Sector Institutions through National Competitive Bidding (NCB) under Khyber Pakhtunkhwa Public Procurement of Goods, Works &Services Rules 2014.

In order to simplify the preparation of the Standard Bidding Documents for each procurement, the said Bidding Documents are grouped in two parts based on provisions which are fixed and that which are specific for each procurement.

Provisions which are intended to be used unchanged are in Part-One, which includes Instructions to Bidders (ITB) and General Conditions of Contract (GCC).

Part-Two has five sections. Any amendment or variation in the Instructions To Bidders (ITB) and the General Conditions of Contract (GCC) in Part-I, regarding contract data and procurement specific provisions, will be carried out in Bid Data Sheet (BDS) & Special Conditions of Contract (SCC) respectively in Part-Two: Section-I which includes Invitation For Bid (IFB), Bid Data Sheet (BDS) & Special Conditions of Contract (SCC). Part-Two: Section-II includes Technical & Financial Evaluation Criteria for the bidder and the intended Goods. Part-Two: Section-III further includes Schedule of Requirements, Technical Specifications and Ancillary Services. Part-Two: Section-IV also contains standardized Sample Forms and Schedules to be submitted by the bidder; and Part-Two: Section V contains in the end, exceptions to the list of eligible countries for the procurement activity under consideration.

Each section is prepared with notes *[in italics]* intended only as information for the Purchaser or the person drafting the bidding documents. They shall *not* be included in the final documents.

**Section-I: Primary Documentation**

**Primary Documents to be submitted in Section-I:**

* Bid Cover Sheet
* Bid Form-1
* Bid Form-2
* Bid Form-3 (A)
* Bid Form-3 (B)
* Bid Form-4
* Bid Form-5

8. Certificate to the effect that the requisite Bid Security equal to 2% of the Bid Price in the form of DD, PO or CDR is enclosed in the Financial Bid.

(Non-submission of Primary Documents duly signed & stamped shall render the bidder non-responsive)

9. Copy of tender form fee receipt.

**IMPORTANT NOTE:** Non- submission of Primary documents duly signed and stamped shall render the bidder non-responsive.

**Section-II: Product Evaluation Documentation**

**Secondary Documents to be submitted in Section-II:**

**Product Certifications for Conformance Specifications:**

* Specifications List demonstrating the full / partial compliance to the required Specifications.
* US Food and Drug Administration (FDA) 510K Certificate for the quoted Product, if available.
* European Community (CE) MDD Certificate for the quoted Product, if available.
* Japan Industrial Standards (JIS) Certificate for the quoted Product, if available.

**Product Certifications for Performance Specifications:**

* AAMI’ s Certification on quoted Product Performance, if available
* ICC’s Certification on quoted Product Performance, if available
* USCC’s Certification on Product Performance, if available
* Any other Product Certification on quoted Product Performance i.e., ISO etc.
* Customer Satisfaction Certificates of the quoted product from a local entity supplied earlier

**Section-III:   
Firm Evaluation Documentation**

**Secondary Documents to be submitted in Section-II:**

* NTN Certificate from FBR.
* GST Certificate from FBR.
* IT-1 or IT-2 Form from FBR.
* List of certified professional & Technical staff employed by the firm.
* Detail of networking setup in Peshawar.
* Plan for Training on equipment to be supplied and installed along with certificate
* Post-Warranty Certificate.
* Post warranty Maintenance Services Certificate.
* Manufacturer authorization /Partnership deed with manufacturer.
* Number of institutions served.
* Performance certificate as pr Bid form 4.

**PART-ONE**

**FIXED CONDITIONS OF CONTRACT**

**1. Instructions to Bidders (ITB)**

**2. General Conditions of Contract (GCC)**

*Bidders are advised to read the contents of the Instruction to Bidders (ITB) carefully for filling up the Bidding Documents properly in order to become responsive.*

**Table of contents**

|  |  |  |
| --- | --- | --- |
| **Sr No.** | Part-I: Fixed conditions of Contract |  |
| 1 | [Instructions to Bidders](file:///D:\DELIVER-INAM\Consultative%20Meetings\KPK\DOH\DOH%20Procurement\Standard%20Bidding%20Document%20-Drugs%20&%20Medicines%20-%20DOH%20KPK.docx#_Toc326764834).( ITB)......................................................................... |  |
| 2 | General Conditions of Contract (GCC)......................................................... |  |
|  | **Part-Two: Variable Conditions of Contract** | |
|  | **Section-I: Procurement Specific Provisions** |  |
| 1 | Invitation For Bids (IFB)................................................................................ |  |
| 2 | Bid Data Sheet (BDS)................................................................................... |  |
| 3 | Special Conditions of Contract (SCC).......................................................... |  |
|  | **Section-II: Evaluation Criteria** |  |
|  | Technical Evaluation Criteria along with list of items........................... |  |
| 1  2  3  4  5  6  7 | [**Section-III: Schedule of Requirements**](#_Toc326764849)  Schedules of requirements………………………………………………….....  Supply Schedule Annex-A...........................................................................  Liquidated damages Annex-B.......................................................................  Price Schedule Annex-C...............................................................................  Purchase notification award Annex-D..........................................................  Purchase order Annex-E…………………………………...............................  Payment schedule Annex-F ...................................................................... |  |
|  | **Section-IV: Standard Forms (Including Contract Agreement)…………** |  |
|  | Section-V: Eligible Countries........................................................................ |  |
|  | Section-VI: Specifications……………………………………………………….. |  |

# 

# PART-ONE

Instructions To Bidders (ITB)

**Instructions to Bidders**

[1. Scope of Bid](#_Toc326764835)

[2. Source of Funds…………..…………………………………………………………...](#_Toc326764836)...........................

[3. Eligible Bidders.](#_Toc326764837)

[4. Corruption and Fraud.](#_Toc326764838)

[5. Eligible Goods and Services.](#_Toc326764839)

[6. Cost of Bidding.](#_Toc326764840)

[7. Bidding for Selective Items.](#_Toc326764841)

[The Bidding Procedure ........................................](#_Toc326764842)

[8. The Governing Rules.](#_Toc326764843)

[9. Applicable Bidding Procedure.](#_Toc326764844)

[**The Bidding Documents**](#_Toc326764845)

[10. Contents of the Bidding Documents](#_Toc326764846)

[11. Clarification(s) on Bidding Documents.](#_Toc326764847)

[12. Amendment(s) to the Bidding Documents.](#_Toc326764848)

[**Preparation of Bids**](#_Toc326764849)

[13. Language of Bids.](#_Toc326764850)

[14. Documents comprising the Bids.](#_Toc326764851)

[15. Bid Price……………....](#_Toc326764852)

[16. Bid Currencies.](#_Toc326764853)

[17. Samples….. 1](#_Toc326764854)3

[18. Documentation on Eligibility of Bidders.](#_Toc326764855)

[19. Documentation on Eligibility of Goods.](#_Toc326764856)

[20. Bid Security.](#_Toc326764857)

[21. Bid Validity.](#_Toc326764858)

[22. Format and Signing of Bids.](#_Toc326764859)

**Pre-Bid Meeting…………………………………………………………………………….……….………...**

**23. Clarification of tender document.................……………………………………………………….**

[**Submission of Bids ..**](#_Toc326764860)

[24. Sealing and Marking of Bids.](#_Toc326764861)

[25. Deadline for Submission of Bids](#_Toc326764862)

[26. Late Bids](#_Toc326764863)

[27. Withdrawal of Bids](#_Toc326764864)

[Opening and Evaluation of Bids](#_Toc326764865)

[28. Opening of Bids by the Procuring Agency.](#_Toc326764866)

[29. Clarification of Bids.](#_Toc326764867)

[30. Preliminary Examination.](#_Toc326764868)

[31. Evaluation of Bids.](#_Toc326764869)

[32. Qualification of Bidder](#_Toc326764870)

[33. Rejection of Bids](#_Toc326764871)

[34. Re-Bidding](#_Toc326764872)

[35. De-Briefing Sessions for Access to Information on Evaluation  
Process 1](#_Toc326764873)9

[36. Contacting the Procuring Agency.](#_Toc326764874)

Accessto Record of Procurement Proceeding...………………...………..  
37. Maintenance of Record of Procurement Proceedings….…….………….....

[Award of Contract](#_Toc326764875)

[38. Acceptance of Bid and Award Criteria. ….. .](#_Toc326764876)

[39. Procuring Agency’s Right to vary quantities at the time of Award.](#_Toc326764877)

[40. Notification of Award.](#_Toc326764878)

[41. Limitation on Negotiations.](#_Toc326764879)

[42. Signing of Contract.](#_Toc326764880)

[43. Performance Guarantee………………………………………………….](#_Toc326764881)....

**INSTRUCTIONS TO BIDDERS (ITB)**

1. **Scope of Bid**
   1. The Principal, Gajju Khan Medical College Swabi invites bids for supply of Goods specified in the Schedule of Requirements along with Technical Specifications and related services incidental thereto to meet the requirement of GKMC Swabi with Bid Reference Number for the procurement activity as mentioned in **Bid Data Sheet (BDS).**
   2. Means of communication for the bidders will be true and original signed copies of documents and letters to be submitted either in person or through registered post/courier service with proof of receipt. Phone, fax, telex and email can be used only for information/inquiry purposes.

### 2. Source of Funds

2.1 The client as mentioned in the **Bid Data Sheet (BDS)**

**3.** **Eligible Bidders.**

3.1 This Invitation for Bids (IFB) is open to all eligible/Pre-Qualified manufacturers; and to the importers/ their authorized agents in Pakistan for supply of Goods as mentioned in the **Bid Data Sheet (BDS)** and more specifically described in the Schedule of Requirement in Part-Two: Section-III of these Standard Bidding Documents.

3.2 Government-owned enterprises in Pakistan may participate only if they are legally and financially autonomous and authorized to participate in bidding.

3.3 The Importer/Agent must possess valid authorization from the Manufacturer and shall have to submit a copy of Drug sell License/ Memorandum of Association/Partnership deed registered with the Registrar of Companies. However, in case of Manufacturer, they should have a documentary proof as prescribed in the Bid Form 3B: SectionIV of these Standard Bidding Documents to the effect that they are the pre-qualified Manufacturer of the required specifications of Goods.

3.4 Bidders under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government (Federal, Provincial or Local) or a public sector organization are NOT ELIGIBLE.

3.5 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:

(a) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under these Standard Bidding Documents ; or

(b) Submit more than one bid in this bidding process, except for alternative offers permitted under ITB Clause 15.6 of these Standard Bidding documents. However, this does not limit the participation of subcontractors in more than one bid.

3.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

### 4. Corruption and Fraud.

4.1 The Government of Khyber Pakhtunkhwa defines Corrupt and Fraudulent Practices as “*the offering, giving , receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the Procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty”*

4.2 Indulgence in corruption and fraudulent practices is liable to result in rejection of Bids, cancellation of contracts, debarring and blacklisting of the Bidder, for a stated or indefinite period of time.

### 5. Eligible Goods and Services.

5.1 All goods and related services to be supplied under the contract shall conform to the policies of the Government of Khyber Pakhtunkhwa in vogue. All expenditures made under the contract shall be limited to such goods and services. For purposes of this clause, (a) the term “Goods” includes any goods that are the subject of this Invitation for Bids and (b) the term “Services” includes related ancillary services such as transportation, installation, insurance, port releases, after sale service etc.

### 6. Cost of Bidding.

6.1 The Bidding Documents will be available from the date of publishing of the IFB and will be available up to the period as mentioned in the **Bid Data Sheet**. The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

### 7. Bidding for Selective Items.

7.1 A Bidder, if he so chooses, can bid for selective items from the list of goods provided for in the Schedule of Requirements. A Bidder is also at a liberty to bid for all the goods mentioned in the Schedule of Requirements provided he fulfills the requirements. However, a Bidder cannot bid for partial quantities of an item in the Schedule of requirement. THE BID MUST BE FOR THE WHOLE QUANTITY OF AN ITEM REQUIRED IN THE SCHEDULE OF REQUIREMENT.

## The Bidding Procedure

### 8. The Governing Rules.

8.1 The Bidding procedure shall be governed by the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014.

### 9. Applicable Bidding Procedure.

9.1 The bidding procedure is governed by Rule 06 (2) b “Single Stage Two-envelop Procedure” Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014.Bidders are advised also to refer to the **Bid Data Sheet (BDS)**to confirm the Bidding procedure applicable in the present bidding process.

9.2 The bidding procedure prescribed in the Bid Data Sheet above is explained below:

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| **Two Envelope Procedure** |
| 1. The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal; 2. the envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion; 3. Initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened; technical proposal is to determine the technical strength and consideration of the illegibility of the firm for the bidding process, which is to be carried out before the opening of the financial bids. 4. the envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of Procuring Agency without being opened; 5. the Procuring Agency shall evaluate the technical proposal, without reference to the price and reject any proposal which do not conform to the specified requirements; 6. during the technical evaluation no amendments in the technical proposal shall be permitted; 7. the financial proposals of bids shall be opened publicly at a time, date and venue to be announced and communicated to the Bidders in advance; 8. After the evaluation and approval of the technical proposal the Procuring Agency shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective Bidders; and 9. The bid found to be the lowest evaluated bid shall be accepted |

## The Bidding Documents

### 10. Contents of the Bidding Documents

10.1 The goods required, applicable bidding procedures, and Contract terms are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding Documents include:

(a) Instructions to Bidders (ITB)

(b) Bid Data Sheet (BDS)

(c) General Conditions of Contract (GCC)

(d) Special Conditions of Contract (SCC)

(e) Evaluation Criteria

(f) List of Required

(g) Schedule of Requirements

(h) Distribution Plan

(i)Technical Specifications/Sample Size& Ancillary Services

(j) Sample Forms & Schedules

10.2 The “Invitation for Bids (IFB)” is not a formal part of the Bidding Documents and is included as a reference only. In case of discrepancies between the Invitation for Bid and the Bidding Documents listed in 10.1 above, the Bidding Documents shall take precedence.

10.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or to submit a bid not substantially responsive to the Bidding Documents in every respect shall be at the Bidder’s risk and may result in the rejection of its bid.

### 11. Clarification(s) on Bidding Documents.

11.1 A prospective Bidder requiring any clarification(s) on the Bidding Documents may notify the Procuring Agency in writing at the Procuring Agency’s address indicated in the **Bid Data Sheet (BDS).** The Procuring Agency shall respond in writing to any request for clarification(s) of the bidding documents, which it receives no later than ten (10) days prior to the deadline for the submission of bids prescribed in the Invitation for Bids. Written copies of the Procuring Agency’s response (including an explanation of the query but without identifying the source of inquiry) shall be sent to all prospective Bidders that have received the Bidding Documents.

### 12. Amendment(s) to the Bidding Documents.

12.1 At any time prior to the deadline for submission of bids, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification(s) requested by a prospective Bidder, whether in a Pre-Bid Meeting to be held on a date specified in the **Bid Data Sheet (BDS)** may modify the Bidding Documents by amendment(s).

12.2All prospective Bidders that have received the Bidding Documents shall be notified of the amendment(s) in writing through Post, e-mail or fax, and shall be binding on them.

12.3 In order to allow prospective Bidders reasonable time for taking the amendment(s) into account in preparing their bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of bids.

## Preparation of Bids

### 13. Language of Bids.

13.1 All correspondences, communications, associated with preparation of Bids, clarifications, amendments, submissions shall be written in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, the said translation shall take precedence.

### 14. Documents comprising the Bids.

14.1 The Bid shall comprise of the Bid Forms of this Bidding Document and all those ancillary documentation that are prescribed for the eligibility of the bidders and goods and ancillary services that are found necessary and highlighted in the Bid Forms in Section IV.

14.2 The Bidder shall complete the Bid Forms and an appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their general and specific characteristics as specified in the **Bid Data Sheet (BDS),** ancillary services that the bidder is willing or required to provide along with the proposed price.

### 15. Bid Price.

15.1 The Bidder shall indicate on the appropriate form prescribed in this Bidding Document the unit prices and total bid price of the goods, it proposes to supply under the Contract.

15.2 Form prescribed for quoting of prices is to be filled in very carefully, preferably typed. Any alteration/ correction is not acceptable. Every page is to be signed and stamped at the bottom. Serial number of the quoted item may be marked with red/yellow marker.

15.3 The Bidder should quote the prices of goods according to the technical specifications as provided in Part-Two: Section III of this document. The technical specifications of goods, different from the required specifications, shall straightway be rejected.

15.4 The Bidder is required to offer a competitive price which must include all the taxes, duties, prescribed price and any other price as mentioned in the **Bid Data Sheet (BDS)**where applicable. If there is no mention of taxes, the offered/ quoted price shall be considered as inclusive of all prevailing taxes/ duties, etc.

15.5 The benefit of exemption from or reduction in the taxes and duties shall be passed on to the Procuring Agency.

15.6 Prices offered should be for the entire quantity of an item demanded in the Schedule of Requirement; partial quantity offers shall straightaway be rejected. Conditional or alternate offer shall also be considered as non-responsive Bid.

15.7 While making a price quote, trend/ inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services shall be entertained.

### 16. Bid Currencies.

16.1 Prices shall be quoted in the currency as mentioned in the **Bid Data Sheet.**

### 17. Samples.

17.1 The Bidder shall provide samples of quoted goods along with the bid at his own cost and in a quantity prescribed by the Procuring Agency in Part-Two: Section III of these Standard Bidding Documents. However, samples of cold chain (perishable) goods, if any, will be called later at the time of technical evaluation of bids.

### 18. Documentation on Eligibility of Bidders.

18.1 Bidder shall furnish, as part of its bid, the Bid Form provided in Part-Two: Section IV of the Standard Bidding Documents as specified in the **Bid Data Sheet (BDS),** establishing the Bidder’s eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

18.2 Technical Bid Proformas provided in Part-Two: Section IV of the Standard Bidding Documents for the preparation of Technical Bids by the bidder to be submitted with quotations as specified in **Bid data Sheet (BDS).**

18.3 The documentary evidence of the Bidder’s eligibility to bid shall establish to the Procuring Agency’s satisfaction that the Bidder, at the time of submission of its bid, is an eligible bidder as defined under ITB Clause 3 of these Standard Bidding documents above.

### 19. Documentation on Eligibility of Goods.

19.1 The Bidder shall furnish, as part of its bid the Bid Form provided as in Part-Two: Section IV of these Standard Bidding Documents as specified in the **Bid Data Sheet (BDS)**, documents establishing the eligibility and conformity to the bidding documents of all goods, which the Bidder proposes to supply under the Contract.

### 20. Bid Security.

20.1 The Bidder shall furnish, as part of its bid, a Bid Security to the extent of a percentage of the total bid value as mentioned in the **Bid Data Sheet (BDS)**. Unsuccessful bidder’s bid security shall be discharged or returned soon after announcement of the successful bids.

20.2 The successful Bidder’s bid security shall be discharged upon signing of contract and furnishing the performance security/guarantee.

20.3 The bid Security may be forfeited:

(a) if a Bidder withdraws its bid during the period of bid validity;

or

(b) in the case of a successful Bidder, if the Bidder fails to sign the Contract or fails to provide a Performance Security/Guarantee for the duration of the contract.

### 21. Bid Validity.

21.1 Bids shall remain valid for the period identified in the **Bid Data Sheet (BDS)** after the date of opening of technical bid prescribed by the Procuring Agency. A bid valid for a period shorter than the one prescribed in the Bid Data Sheet (BDS) shall be rejected by the Procuring Agency as non-responsive.

21.2 The Procuring Agency shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However under exceptional circumstances and for reason to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.

* 1. Bidders who,-

1. agree to the Procuring Agency’s request for extension of bid validity period shall not be permitted to change the substance of their bids; and
2. do not agree to an extension of the bid validity period shall *be allowed to withdraw their bids without forfeiture of their* bid securities.

### 22. Format and Signing of Bids.

22.1 The Bidder shall prepare and submit its bid and provide original documents, as appropriate. Copies of any documents must be signed and stamped by the bidder.

22.2 The Bid shall be accompanied by the original receipt for payment made for the purchase of the bidding document. In an event where the Bidder has downloaded the bidding document from the web, they will require to get the original payment receipt of the prescribed fee from the Procuring Agency well before the date of submission of bid.

22.3 The original bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The person or persons signing the bid shall initial all pages of the bid form.

**22.4 Any interlineations, erasures, or overwriting shall not be acceptable.**

**22.5Any tampering, illegitimate inclusion or exclusion in any part of the Standard Bidding Documents shall lead to disqualification of the bidder.**

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| * **Pre-Bid Meeting** | | |
| 23. **Clarification of Tender Documents** | 23.1 | * The Procuring Entity, under Rule of the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules 2014, may convene a Pre-Bid Conference any time after the issuance of the Standard Bidding Documents and before the Bid opening to invite all the prospective bidders: * (a) to brief them to submit responsive bids, * (b) to respond to any queries made by them for clarification, * (c) to make any changes or modifications in the Standard Bidding Documents in the light of such clarifications if agreed by the procuring Entity. |
| 23.2 | * Any such changes or modifications, after approval of the Procuring entity, shall reflected be in the form of an addendum or minutes of meeting and shall be timely: * (a) communicated in writing to all such bidders who have purchased the Standard Bidding Documents, or * (b) Posted on the website of the Health Department Khyber Pakhtunkhwa for wider disseminated to all the prospective bidders if the same have earlier been posted on the said website. |
|  | 23.3 | * Reasonable time shall be given to all the prospective bidders after the Pre-Bid Meeting and before the bid opening so that they may adequately reflect the approved changes in their bids accordingly within the given time before the bid submission. The Procuring Entity may give a new date for bid opening either through an advertisement or through any written communication to the prospective bidders if it deems necessary that a new bid opening date is required for providing reasonable time to the prospective bidders. |

## Submission of Bids

### 24. Sealing and Marking of Bids.

24.1 The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion. Similarly, the Bidder shall seal both the proposals/bids in separate envelopes. The said two envelopes shall then be sealed in an outer envelope.

24.2 The inner and outer envelopes shall:

a) Be addressed to the Procuring Agency at the address given in the Invitation for Bids; and

b) Bid Reference No. indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE,” the time and the date specified in the **Bid Data Sheet (BDS)** for opening of Bids.

24.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared as “**non-responsive**” or “**late**”.

24.4 If the outer as well as inner envelope is not sealed and marked as required by the ITB Clauses 24.1 to 24.3 above the Procuring Agency shall assume no responsibility for the bid’s misplacement or premature opening.

### 25. Deadline for Submission of Bids

25.1 Bids must be submitted by the Bidder and received by the Procuring Agency at the address on the time and date specified in the **Bid Data Sheet (BDS)**. Bids received **later than the time and date specified in the Bid Data Sheet will stand summarily rejected.**

25.2 The Procuring Agency may, in its discretion, extend the prescribed deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 12 above, in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

### 26. Late Bids

26.1 Any bid received by the Procuring Agency after the deadline for submission of bids prescribed by the Procuring Agency pursuant to ITB Clause 25 shall be rejected and returned unopened to the Bidder.

### 27. Withdrawal of Bids

27.1 The Bidder may withdraw its bid after the bid’s submission and prior to the deadline prescribed for opening of bids.

27.2 No bid may be withdrawn in the period between deadline for submission of bids and the expiration of the period of bid validity specified in Bid Data Sheet. Withdrawal of a bid during this period may result in forfeiture of the Bid Security submitted by the Bidder, pursuant to the ITB Clause 20 above.

## Opening and Evaluation of Bids

### 28. Opening of Bids by the Procuring Agency.

28.1 All bids received, shall be opened by the Procuring Agency publicly in the presence of the Bidders or their representatives on the date, time and venue prescribed in the **Bid Data Sheet**.

28.2 The opening of Bids shall be subject to the Bidding Procedure prescribed in the **Bid Data Sheet** and elaborated in ITB Clause 9.

28.3 All Bidders in attendance shall sign an attendance sheet.

28.4 The Purchaser shall open one Bid at a time and read out aloud its contents which may include name of the Bidder, category tendered for, any discounts, any bid modifications or withdrawal, the presence or absence of requisite bid security, unit as well as total bid price and such other details as the Purchaser, at its discretion, may consider appropriate if not in conflict with the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014 specifically Rule 37.

28.5 The Procuring Agency shall have the minutes of the Bid opening (technical and when applicable financial) recorded.

28.6 No bid shall be rejected at technical proposal/bid opening, except for late bids, which shall be returned unopened to the Bidder

28.7 The financial bids found having without Bid Security shall also be returned unannounced to the Bidders. However, prior to return to the Bidder, the Chairman of the Purchase/ Procurement Committee shall record a statement giving reasons for return of such bid(s).

### 29. Clarification of Bids.

29.1 During evaluation of the bids, the Procuring Agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

### 30. Preliminary Examination.

30.1 The Procuring Agency shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

30.2 In the financial bids the arithmetical errors shall be rectified on the following basis.

a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected.

b) If the Bidder does not accept the correction of the errors, its bid shall be rejected, and its Bid Security may be forfeited.

c) If there is a discrepancy between words and figures, the amount in words shall prevail.

30.3 The Procuring Agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

30.4 Prior to the detailed evaluation, the Procuring Agency shall determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Applicable Laws, Taxes, strep code fee & Duties and internationally recognized best practices shall be deemed to be a material deviation for technical proposals and Bid Security for financial proposals. The Procuring Agency’s determination of a bid’s responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

30.5 If a bid is not substantially responsive, it shall be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

### 31. Evaluation of Bids.

31.1 The Procuring Agency shall evaluate and compare the bids, which have been determined to be substantially responsive in accordance with ITB Clause 30 above.

31.2 All bids shall be evaluated in accordance with the Evaluation Criteria and other terms and conditions set forth in these Standard Bidding Documents (SBDs). Merit Point Average Evaluation Methodology shall be used to identify the Most Economically Advantageous Bidder.

31.3 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into Pak Rupees. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan/ National Bank of Pakistan on that day.

31.4 A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the time of issue of notice for invitation of bids.

### 32. Qualification of Bidder

32.1 The Procuring Agency, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in Bidder’s capacities, may require the Bidder to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not.

32.2 Such qualification shall only be laid down after recording reasons thereof in writing. They shall form part of the records of that procurement proceeding.

32.3 The Procuring Agency shall determine to its satisfaction whether a Bidder, technically and financially qualified and even having the lowest evaluated responsive bid is qualified to perform the Contract satisfactorily.

32.4 The determination can take into account the Bidder’s financial, technical, and production capabilities. It shall be based upon an examination of the documentary evidence of the Bidder’s qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Further, during the process of technical evaluation of Bidder, the Procuring Agency may inspect the manufacturing plant/ production capacity/ warehousing system/ practices by a team of experts for assessment, if it deems necessary.

32.5 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in rejection of the Bidder’s bid, in which event the Procuring Agency shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder’s capabilities to perform satisfactorily.

32.6 The Procuring Agency shall disqualify a Bidder if it finds, at any time, that the information submitted by him concerning his qualification as Bidder was false and materially inaccurate or incomplete.

**33. Rejection of Bids**

33.1 The Procuring Agency may reject any or all bids at any time prior to the acceptance of a bid under Rule 47 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules 2013. However, before rejection of tender on basis of the bid being unworkable, the bidder shall upon request be given an opportunity to give a detailed analysis of workability of his bid.

33.2 The workability of a bid may depend, among other factors, upon the objectives of a procurement activity as specified in the Bid Data Sheet (BDS) wherein wider coverage for disease prevention, diagnosis or treatment of patients is required with intended cost-effective healthcare goods of high therapeutic value.

33.3 The Procuring Agency shall upon request communicate to any Bidder who submitted a bid, the grounds for its rejection of any or all bids, but is not required to justify those grounds.

33.4 The Procuring Agency incurs no liability, by virtue of its invoking ITB Clause 32.1 above towards Bidders who have submitted bids.

33.5 Notice of the rejection of any or all bids shall be given promptly to the concerned Bidders that submitted bids.

**34. Re-Bidding**

34.1 If the Purchaser rejected all bids in pursuant to ITB Clause 33, it may call for a re-bidding by adopting the requisite procedure under Rules 48 of the Khyber *Pakhtunkhwa Public* Procurement of Goods, Works & Services Rules 2014.

34.2 Notice of rejection of the tender shall be given to all the bidders who submitted the bids.

34.3 The Procuring Agency before invitation for re-bidding shall assess the reasons for rejection of tender and may accordingly revise specifications, evaluation criteria or any other condition for Bidders, as it may deem necessary under Rule 48(2) of the Khyber *Pakhtunkhwa* Public Procurement of Goods, Works & Services Rules 2014.

**35. De-Briefing Sessions for Access to Information on Evaluation Process**

35.1 Under Rule Khyber *Pakhtunkhwa* Procurement of Goods Works & Services Rules 2014, the Purchaser, upon written request of a bidder, may make available to him information on evaluation process as mentioned in the said Rule, or may either:

a) Convene a Pre-Award De-Briefing session to apprise the technically non-qualified/disqualified bidders about the reasons of their non-qualification/disqualification, or,

b) Convene a Post-Award De-Briefing to apprise the technically qualified but unsuccessful bidders about shortcomings of their bids and reasons of success of the selected bid.

**36. Contacting the Procuring Agency.**

36.1 Subject to ITB Clause 28 above and Rule 44 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works & Services Rules 2014 no Bidder shall contact the Procuring Agency on any matter relating to its bid, from the time of the bid opening to the time of announcement of Evaluation Repot. If a Bidder wishes to bring additional information to the notice of the Procuring Agency, it should do so in writing.

36.2 Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract award may result in the rejection of the Bidder’s bid. Canvassing by any Bidder at any stage of the bid evaluation is strictly prohibited. Any infringement shall lead to disqualification under Rule 43 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works & Services Rules 2014.

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| * **Access to Record of Procurement Proceedings** | | |
| * **37.Maintenance of Record of Procurement Proceedings** | 37.1 | * The Procuring Entity shall maintain the record relating to the procurement proceedings under Rule of the Khyber Pakhtunkhwa Procurement of Goods, Works & Services Rules 2014. Record of such proceeding shall be made public on a specific request under only after the final selection of the lowest evaluated responsive bid under the aforesaid Rules |

**Award of Contract**

**38. Acceptance of Bid and Award Criteria**.

8.1 The Bidder whose bid is found to be most closely conforming to the Evaluation Criteria prescribed in Part-Two: Section II of these Standard Bidding Documents if not in conflict with any other law, rules, regulations or policy of the Government of Khyber Pakhtunkhwa, shall be awarded the Contract, within the original or extended period of bid validity.

**39. Procuring Agency’s Right to vary quantities at the time of Award**.

39.1 The Procuring Agency reserves the right at the time of award of Contract to change the quantity of goods originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

**40. Notification of Award**

40.1 Prior to the expiration of the period of bid validity, the Procuring Agency shall notify to the successful Bidder in writing that its bid has been accepted.

40.2 The notification of award shall constitute the formation of the Contract between the Procuring Agency and the successful Bidder.

40.3 The enforcement of the Contract shall be governed by Rule 50 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014. The procuring Entity and the successful bidder shall sign a written contract within thirty (30) days of the dispatch of the notice of acceptance of bid to the successful bidder.

40.4 Upon receipt of the Notification of Award, the successful Bidder shall submit a Performance Security equal to the percentage of the Contract price, as specified in the Bid Data Sheet (BDS) under Rule 21 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014 and within the time specified in the Bid Data Sheet (BDS).

40.5 Upon submission of the requisite Performance Security, the Procuring Entity shall release the Bid Security to the successful bidder. The Bid Securities of the unsuccessful bidders shall also be released to them.

**41. Limitation on Negotiations**

41.1 Negotiations, that may be undertaken in finalization of the Contract shall not relate to the price or substance of bid specified by the Bidder, but only to minor technical, contractual or logistical details.

**Negotiations shall not be used to:** substantially change the technical quality or details of the requirement, including the tasks or responsibilities of the Bidder or the performance of the goods; substantially alter the terms and conditions of Contract; reduce unit rates or reimbursable costs; substantially alter anything which formed a crucial or deciding factor in the evaluation of the bids or proposals alter the submitted financial bid.

**42. Signing of Contract.**

42.1 Within thirty (30) days of dispatch of the notice of acceptance of bid to the successful bidder the Purchaser and the bidder shall sign the Contract Agreement Form provided in Part-Two: Section IV of these Standard Bidding Documents, incorporating all the Terms & Conditions of the Standard Bidding Documents as agreed between the Parties and in accordance with the legal requirements in vogue. Entering into a Repeat Order shall be governed separately as per Rule

42.2 Review against a contract award shall be carried out in accordance with Rule ibid.

43.3 If the successful Bidder, after completion of all codal formalities shows an inability to sign the Contract then its Bid Security shall stand forfeited and the firm may be blacklisted and de-barred from future participation, whether temporarily or permanently. In such situation the Purchaser may award the contract to the next lowest evaluated Bidder or the next highest ranking bid or call for new bids.

**43. Performance Guarantee**

43.1 On the date of signing of Contract, the successful Bidder shall furnish a Performance Security in the form of a Bank Guarantee for a percentage amount (10% of the total items’ quoted price) as specified in the Bid Data Sheet (BDS), on the Form and in the mannered prescribed by the Procuring Agency in Part-Two: Section-IV of these Standard Bidding Documents within the time prescribed in the Bid Data Sheet (BDS)

43.2 The Bid Security submitted by the bidder at the time of submitting its bid shall be returned to the successful Bidder upon submission of Performance Security.

43.3 Failure to provide a Performance Security by the successful Bidder is a sufficient ground for annulment of the award and forfeiture of his Bid Security. In such event the Procuring Entity may award the contract to the next lowest evaluated responsive bidder or call for new bid.

# PART-ONE

# General Conditions of Contract (GCC)

## Table of GCC Clauses

|  |  |
| --- | --- |
| **Sr. No** | Terms |
| 1 | Definitions |
| 2 | Application |
| 3 | Source of import |
| 4 | Standards |
| 5 | Use of Contract Documents and Information; Inspection & Audit by Client |
| 6 | Patent Rights |
| 7 | Performance Security |
| 8 | Submission of Samples |
| 9 | Ensuring Storage Arrangements |
| 10 | Inspections and Tests |
| 11 | Packing |
| 12 | Delivery and Documents |
| 13 | Insurance |
| 14 | Transportation |
| 15 | Incidental Services |
| 16 | Spare Parts |
| 17 | Warranty |
| 18 | Payment |
| 19 | Prices |
| 20 | Change Orders |
| 21 | Contract Amendments |
| 22 | Assignment |
| 23 | Subcontracts |
| 24 | Delays in the Supplier’s Performance |
| 25 | Liquidated Damages& Penalties |
| 26 | Termination for Default |
| 27 | Force Majeure |
| 28 | Termination for Insolvency |
| 29 | Termination for Convenience |
| 30 | Arbitration & Resolution of Disputes |
| 31 | Governing Language |
| 32 | Applicable Law |
| 33 | Notices |
| 34 | Taxes and Duties |

### General Conditions of Contract (GCC)

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| 1. Definitions | | 1.1 | In this Contract, the following terms shall be interpreted as indicated:  (a) “The Contract” means the agreement entered into between the Purchaser (provincial or district Health departments, Autonomous Medical Institutions or Vertical Programs) and the Supplier, as recorded in the Agreement signed by the Parties, including all attachments and appendices thereto and all documents incorporated by reference therein.  (b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its Contractual obligations.  (c) “The Goods” means all those supplies which the Supplier is required to supply to the Purchaser under the Contract.  (d) “The Services” means those services ancillary to the supply of above goods, such as printing of special instructions on the label and packing, design and logo of the government of Khyber Pakhtunkhwa, transportation of goods up to the desired destinations, installation and other such obligations of the Supplier covered under the Contract.  (e) “GCC” means the General Conditions of Contract contained in this section.  (f) “SCC” means Special Conditions of the Contract.  (g) “The Purchaser” means the Client as mentioned in the **SCC.**  (h) “The Supplier” means the individual or firm supplying the goods under this Contract.  (i) “Day” means calendar day. | |
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| 2. Application | | 2.1 | These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract. | |
| 3. Source of Import | | 3.1 | All goods and related services to be supplied under the contract that are required to be imported in Pakistan shall have their origin in eligible source coun­tries as prescribed by the commercial policies of the Federal Government of Pakistan and all expenditures made under the contract shall be limited to such goods and services. | |
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|  | | 3.2 | For purposes of this clause, “origin” means the place where the goods are produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing or processing. | |
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| 4. Standards | | 4.1 | The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications. | |
| 4.2 | In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of this Contract. | |
| 4.3 | If the Supplier provide substandard item and fail to provide the fresh supply, the payment of risk purchase (which will be purchased by the Health Department) the price difference shall be paid by the Supplier. | |
| 4.4 | In case of supply of substandard product the cost associated with disposal/destruction or associated handling shall be borne by the Supplier i.e. removal from purchaser’s premises, burning, dumping, or incineration. | |
| 5. Use of Contract Documents and Information. | |
| 5.1 | The Supplier shall not, without the Purchaser’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance. | |
| 5.2  5.3 | The Supplier shall not, without the Purchaser’s prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.  Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Supplier’s performance under the Contract if so required by the Purchaser. | |
| 5.4 | The Supplier shall permit the Purchaser to inspect the Supplier’s accounts and records relating to the performance of the Supplier. | |
| 6. Patent Rights | | 6.1 | The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the country. | |
| 7. Performance Security | | 7.1 | Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Purchaser the performance security in the amount specified in SCC. | |
| 7.2 | The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier’s failure to complete its obligations under the Contract. | |
| 7.3 | The performance security shall be denominated in the currency of the Contract acceptable to the Purchaser and shall be in one of the following forms:  (a) a Bank Guarantee or an irrevocable letter of credit issued by a reputable bank located in the Purchaser’s country on behalf of the Supplier, in the form provided in the bidding documents or another form acceptable to the Purchaser; or  (b) a cashier’s or certified cheque. | |
| 7.4 | The performance security will be discharged by the Purchaser and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier’s performance obligations under the Contract, including any warranty obligations, unless specified otherwise in **SCC**. | |
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| 8. Submission of Samples | |  | Before commencing supplies, the Supplier shall provide samples free of cost, if and as specified in the Schedule of Requirements of the product to the designated office or staff, as the case may be. | |
| 9. Ensuring storage arrangements | |  | To ensure storage arrangements for the intended supplies, the Supplier shall inform the Purchaser at least 0ne (01) week in advance. However, in case no space is available at the Purchaser’s premises at the time of supply, the Purchaser shall, at least 02 days prior to such situation, shall inform the Supplier, in writing, of the possible time frame of availability of space by which the supplies can be made. In case the Supplier abides by the given time frame it shall not be penalized for delay. | |
| 10. Inspections and Tests | | 10.1 | The Purchaser or its representative shall have the right to inspect and/or to test the goods in accordance with the procedure given in the **SCC** to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. | |
|  | | 10.2 | All costs associated with testing shall be borne by the Supplier. | |
| 10.3 | The Purchaser’s right to inspect, test and, where necessary, reject the goods after the goods either at Supplier’s premises or upon arrival at Purchaser’s destinations shall in no way be limited or waived by reason of the goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the goods delivery from the point of Supply or manufacturing. | |
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| 10.4 | Nothing in GCC Clause 10 shall in any way release the Supplier from any warranty or other obligations under this Contract | |
| 11. Packing | | 11.1 | The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit. | |
| 11.2 | The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in **SCC**, and in any subsequent instructions ordered by the Purchaser. | |
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| 12. Delivery and Documents | | 12.1 | The Supplier in accordance with the terms and manner specified in the Schedule of Requirements shall make delivery of the goods. | |
| 12.2 | The Supplier shall furnish all necessary documentation necessary for completion of the delivery, at the time of delivery and in the manner prescribed. | |
| 13. Insurance | |  | The supplier shall be solely responsible for Insurance of the Goods subject to the contract. | |
| 14.Transportation | | 14.1 | The Supplier shall arrange such transportation of the goods as is required to prevent their damage or deterioration during transit to their final destination and in accordance with the terms and manner prescribed in the Schedule of Requirement. | |
| 14.2 | All costs associated with the transportation of the goods subject to this contract shall be borne by the Supplier. | |
| 15. Incidental  Services | |  | The Supplier shall be required to provide the incidental services as specified in the **SCC** and the cost of which is included in the total bid price. | |
| 16. Spare Parts | |  | As specified in **SCC**, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:  (a) such spare parts as the Purchaser may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and  (b) in the event of termination of production of the spare parts:  (c) advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and  (d) Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings, and specifications of the spare parts, if requested. | |
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| 17. Warranty | | 17.1 | All goods subject to this contract shall be accompanied by the necessary warranty in the manner prescribed in the **SCC**. | |
| 17.2 | The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. | |
| 18. Payment | | 18.1 | The purchaser shall make payments to the Supplier in accordance with the conditions set forth in the Payment Schedule agreed in **SCC**and annexed to this contract. | |
| 18.2 | The currency of payment shall be Pakistan Rupee. | |
| 19. Prices | |  | Prices charged by the Supplier for goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its bid and shall remain the same till the expiry of the contract unless the Parties to this contract mutually agree to vary the prices. | |
| 20. Change Orders | | 20.1 | The Purchaser may at any time, by a written order given to the Supplier pursuant to GCC Clause 33 for notices, make changes within the general scope of the Contract in any one or more of the following:   1. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;   (b) the method of shipment or packing;  (c) the place of delivery; and/or  (d) the Services to be provided by the Supplier. | |
| 20.2 | If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier’s performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier’s receipt of the Purchaser’s change order. | |
| 21. Contract Amendments | |  | No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the Parties. | |
| 22. Assignment | |  | The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Purchaser’s prior written consent. | |
| 23. Subcontracts | |  | The Supplier shall not be allowed to sublet and award subcontracts under this Contract. | |
| 24. Delays in the Supplier’s Performance | | 24.1 | Delivery of the goods shall be made by the Supplier in accordance with the time schedule/supply schedule prescribed by the Purchaser in the Schedule of Requirements. | |
| 24.2 | If at any time during performance of the Contract, the Supplier encounters conditions impeding timely delivery of the goods, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier’s notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier’s time for performance, with or without liquidated damages, in which case the extension shall be ratified by the Parties by an amendment to the Contract. | |
| **25.Liquidated Damages& Penalties** | | 25.1 | Except as provided under GCC Clause 24, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages as prescribed in the **SCC**, unless the parties to this contract mutually agree for extension of time. | |
|  | |  | Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in **SCC**. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 26.  Applicable rate for penalties in case of a breach of contract by the supplier regarding delivery of Goods is specified in the Supply Schedule in Part-II: Section-III. | |
| 26. Termination for Default | |  | The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:  (a) if the Supplier fails to deliver any or all installments of the goods within the period(s) specified in the Contract and subsequent purchase order, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 24; or  (b) if the Supplier fails to perform any other obligation(s) under the Contract.  (c) if the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.  For the purpose of this clause Corrupt and fraudulent practices means:  *the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the Procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty.”* | |
| 27. Force Majeure | | 27.1 | Notwithstanding the provisions of GCC Clauses 24, 25 & 26, the Supplier shall not be liable for forfeiture of its Performance Guaranty, or termination/ blacklisting for default if and to the extent that it’s delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For the purposes of this clause Force Majeure means an act of God or an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence directly or indirectly purporting to mis-planning, mismanagement and/or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. | |
| 27.2 | If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing with sufficient and valid evidence of such condition and the cause thereof. The Purchaser shall examine the merits of the case and all reasonable alternative means for completion of purchase order under the Contract and inform the Supplier of its findings promptly. | |
| 27.3 | Unless Purchaser informs the Supplier in writing of its agreement on the application of force majeure, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event. | |
| 28. Termination for Insolvency | |  | The Purchaser may at any time terminate the Contract by giving written notice of one month time to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination shall be without compensation to the Supplier, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Parties. | |
| 29. Termination for Convenience | | 29.1 | The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser’s convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective. | |
| 29.2 | The Goods that are complete and ready for shipment within thirty (30) days after the Supplier’s receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:  (a) to have any portion completed and delivered at the Contract terms and prices; and/or  (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier. | |
| 30. Arbitration and Resolution of Disputes | | 30.1 | The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. | |
| 30.2 | If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred to the Arbitrator for resolution through arbitration. | |
| 30.3 | In case of any dispute concerning the interpretation and/or application of this Contract shall be settled through arbitration under the Arbitration Act of 1940 (As amended from time to time) in a court of relevant jurisdiction as mentioned in the **SCC**. | |
| 31. Governing  Language | |  | The Contract shall be written in English language. Subject to GCC Clause 32, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the Parties, shall be written in English. | |
| 32. Applicable  Law | |  | This Contract shall be governed by the Laws of Pakistan and the courts of Pakistan shall have exclusive jurisdiction. | |
| 33. Notices | | 33.1 | Any Notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing and on the others address specified in **SCC**. | |
| 33.2 | A notice shall be effective when delivered or on the notice’s effective date, whichever is later. | |
| **34.Taxes & Duties** | |  | All taxation, whether International, Federal, Provincial or Local, shall be borne by the Supplier. | |

**PART-TWO**

**VARIABLE CONDITIONS OF CONTRACT**

**SECTION-I: Procurement Specific Provisions**

1. **Invitation for Bids (IFB)…………………………………………………...**

**2. Bid Data Sheet (BDS)………………………………………………..**

**3. Special Conditions of Contract (SCC)……………………………**

**SECTION-II: Evaluation and Qualification Criteria**

**Scrutiny Equipment:**

1. **Evaluation Criteria along with list of equipments………**

**SECTION-III: Schedule of Requirements……………………………………..………..**

1. **Supply Schedule: Annex-A....………………………………………….......**
2. **Liquidated damages Annex-B ……………………………………….**
3. **Price Schedule submitted by the Bidder: Annex-C……………………..**
4. **Purchaser’s Notification of Award: Annex-D……..………………………**
5. **Purchase Order: Annex-E……………………………………………….......**
6. **Payment Schedule: Annex-F……………………………………………..…**

**SECTION-IV: Sample Forms ……………………………………………………………..**

**.**

* 1. **Bid Cover Sheet…………………………………………………..……………**
  2. **Bid Form-1: Letter Of Intention……………………………………….....**
  3. **Bid Form-2: Affidavit…………………………………....………………....**
  4. **Bid Form-3(A): Eligibility of Bidders & Goods…………………………..**
  5. **Bid Form-3(B): Manufacturer’s Authorization Form………………….....**
  6. **Bid Form-4: Firm’s Past Performance……………………………........**
  7. **Bid Form-5: Price Schedule………………………………….….**
  8. **Bid Form-6: Performance Guarantee…………………………..**
  9. **(ix) Draft Contract Agreement Form………………………………..…..**

**SECTION-V: Eligible Countries ……………………………………………………………**

**INVITATION FOR BIDS (IFB)**

**PROCUREMENT AND INSTALLATION OF MEDICAL EQUIPMENTS & INSTRUMENTS UNDER NATIONAL COMPETITIVE BIDDING (NCB)**

1. Gajju Khan Medical College Swabi, invites sealed bids under National Competitive Bidding from highly reputed National and International Manufacturers and authorized/sole agents for procuring high quality Medical equipment, instruments, office equipment, during the financial year 2016-17 through Single Stage–Two Envelopes bidding procedure as per Rule 06 (2 b) of the Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Procurement Rules 2014.

2. Bidding documents, detailed description and quantities etc of the said items can be obtained from Procurement Cell at the address noted at the end during office hours and which can also be downloaded from the Health Department Khyber Pakhtunkhwa ([www.](http://www.healthkp.gov.pk)gkmcs.edu.pk) websites.

3. A Pre-Bid Meeting will be held on **29/05/2017** at **11:00 A.M** at the address given below. The bidders are requested to thoroughly study the Standard Bidding Documents before the Pre-Bid meeting for any clarification of their queries during the said meeting.

4. Bids must be delivered at the address given below on or before **11.00 hours** on **07/06/2017 (on the next day in case of gazette holiday(s))** and shall be opened in the presence of the bidders or their authorized representatives, who choose to attend at the address below at **11:30 hours** on the same date.

5. Firms, shall submit the Bid Security in an envelope along with the financial bids in the shape of Pay Order (PO)/Demand Draft (DD)/Call Deposit Receipt (CDR) equal to **2%** of their bid amount in the name of **Principal Gajju Khan Medical College Swabi**. The bidders shall submit an undertaking in their Technical Bids that the requisite Bid Security is included in their Financial Bid. Late bids will be treated as non-responsive.

6. The Bidders are requested to give their best and final price for the quoted equipment as per the Specifications as no negotiations on the price are allowed. The bid must be valid up to **120 days from the date of opening of the bid**.

**Note: 1.** The Competent Authority has the right to reject all bids under Rule 47 of

the Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA)

Procurement Rules 2014 by assigning reasons on request.

**2.** The selection will be made on providing samples/demo of the equipment where required

**3.** The firms concerned will be responsible for providing technical manuals / circuit diagrams and training to the end users and bio medical engineer of Electro Medical workshop.

**4.** Bid document submission fee (Non Refundable) is Rs.3000/- per set. Receipts must be obtained for payment of the fee and submission of bids.

**Address of Pre-Bid Meeting, Bid Submission & Opening of tenders:**

**Gajju Khan Medical College Swabi**

**Phone: 0938-280385 Fax No.0938-280221 Email:** [gkmc.swabi@gmail.com](mailto:gkmc.swabi@gmail.com)**,**

**-----------SD/---------**

**(Prof. Dr. Muhammad Zubair Khan)**

**Principal**

**Gajju Khan Medical College, Swabi**

**PART-TWO**

**Section I: Procurement Specific Provisions**

**BID DATA SHEET**

|  |  |  |
| --- | --- | --- |
| **ITB Ref** | **Description** | **Detail** |
| ITB Clause 1.1 | Bid reference number | **Procurement Cell-Tender/Equipment/2016-17** |
| ITB Clause 2.1 | Name of Client & source of funds | *Government of Khyber Pakhtunkhwa* |
| ITB Clause 3.1 | Name of Goods | **Medical Equipment, Instruments and General Items** |
| ITB Clause 6.1 | Commencement date of provision of Bidding Document | **After the date of publishing** |
| ITB Clause 6.1 | Closing date of Bid | **07/06/2017** |
| ITB Clause 7 | Bidding for Selective Items / Lots | **Yes** |
| ITB Clause 9.1 | Bidding procedure | **Single Stage Two Envelop Procedure** |
| ITB Clause 9.2 | Method of determining Lowest evaluated Bidder | **Merit Point Method.** The Firm achieving highest marks will get the contract/ where merit point method is not practicable or applicable then on the basis of through comparative statement keeping quality in view. |
| ITB Clause 11.1 | Clarification(s) on Bidding Documents | **Gajju Khan Medical College Swabi**  **Phone: 0938-280385**  **Fax No.0938-280221 Email:** [gkmc.swabi@gmail.com](mailto:gkmc.swabi@gmail.com)**,** |
| ITB Clause 12 | Pre-Bid meeting date, time and venue | **29/05/2017 at 11 AM**  **Gajju Khan Medical College Swabi** |
| ITB Clause 13 | Language of bid | **English** |
| ITB Clause 14.2 | Specific Description of Goods in the Bidding Documents | Separate quotations shall be submitted for each lot as mentioned in Annex-I, Annex-II, Annex-III& Annex-IV of Part-II: Section-II of the Standard Bidding Documents. |
| ITB Clause 15.4 | Bid Price | **Bid Price shall be inclusive of all duties and taxes.** |
| ITB Clause 16 | Currency of Bid | **PKR** |
| ITB Clause 18.1 | Name of the Bid Form | **Bid Form 3(A)& (B)** |
| ITB Clause 18.2 | Technical Bid Proformas | **Sample Technical Bid Proformas for the following categories**  Importers of Medical /Office Equipment. |
| ITB Clause 19.1 | Name of the Bid Form | **Bid Cover Sheet**&  **Bid Form 2 (Affidavit)** |
| ITB Clause 20 | Amount of Bid Security / Earnest Money | The Bidder shall furnish, as part of its bid, a Bid Security/Earnest Money equivalent to **2%** of the bid price in the name **Principal Gajju Khan Medical College Swabi** |
| ITB Clause 21 | Bid validity period | **120 days** |
| ITB Clause 24 | Last date and time for the receipt of bidding document | **07/06/2017** at **11:00A.M** |
| ITB Clause 27 | Date, time and venue of opening of technical bids | **07/06/2017** at **11:30 A.M**  **Gajju Khan Medical College Swabi**  **Swabi Phone No. 0938-280421, Fax No. 0938-280221 Email: gkmc.swabi@gmail.com** |
| ITB Clause 40.5 | Duration of Contract | **120 days** |
| ITB Clause 41.1 | Performance Guaranty / Performance Security | The Performance Security shall be **10%** of the total contract price quoted and shall be submitted in the name of **Principal Gajju Khan Medical College Swabi** |

**PART-TWO**

# Section I: Procurement Specific Provisions

# SPECIAL CONDITIONS OF CONTRACT

## Table of Clauses

1. Definitions (GCC Clause 1)

2. Country of Origin (GCC Clause 3)

4. Performance Security (GCC Clause 7)

5. Inspections and Tests (GCC Clause 10)

7. Delivery and Documents (GCC Clause 12)

8. Insurance (GCC Clause 13)

10. Warranty (GCC Clause 17)

11. Payment (GCC Clause 18)

12. Liquidated Damages (GCC Clause 25)

13. Disputes Resolution (GCC Clause 31)

14. Governing Language (GCC Clause 31)

17. Duties & Taxes (GCC clause 34)

The Unit price quoted by the bidder shall be: inclusive of all duties and taxes.

**SPECIAL CONDITIONS OF CONTRACT**

The following Special Conditions of Contract shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (c)—The Goods are: **Medical Equipment, Instruments & General Items**

GCC 1.1 (g)—The Purchaser is: **Principal Gajju Khan Medical College Swabi**

GCC 1.1 (h)—The Supplier is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Country of Origin (GCC Clause 3)

All countries and territories as indicated in **Part Two: Section V** of the Standard Bidding Documents, “Eligibility for the Provisions of Khyber Pakhtunkhwa Procurement of Goods, Works, and Services.”

**3. Standards (GCC Clause 4)**

GCC 4.1—The quoted product, at the time of delivery, shall conform to the standards as prescribed in the Technical Evaluation Criteria. The said conformance shall lead to subsequent issuance of the Acceptance Certificate to the Supplier by the Purchaser.

4. Performance Security (GCC Clause 7)

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be:**Ten (10%) percent of the Contract Price**

*[The following provision shall be used in the case of Goods having warranty obligations.]*

GCC 7.4—After delivery and acceptance of the Goods, the Performance Security shall be returned after successful completion of the contract in accordance with Warranty Clause GCC 17.1.

5. Inspections and Tests (GCC Clause 10)

GCC 10.3—Inspection and tests prior to delivery/shipment of Goods and at final acceptance are as follows: **Final Acceptance by the Inspection Committee of Gajju Khan Medical College ,** **Swabi**

Inspections & tests may include re-verification of any quality or manufacturing aspect from vendor or manufacturer by the Purchaser in the form of either a test run or production of an industrial process certificate or a Performance Certificate from the previous clients if required by the Client.

**6.Packing (GCC Clause 11)**

*Applicable as required by the Purchaser.*

7. Delivery and Documents (GCC Clause 12)

GCC Clause 12.1—Delivery& Installation Period of the intended Security & Surveillance equipment in the dedicated wards of the teaching hospitals shall be **90 Days** for Imported Goods and **60 Days** for Local Goods

GCC 12.2—*In case of Import or as required otherwise, upon shipment****,*** the Supplier shall notify the Purchaser the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail the following documents to the Purchaser:

(i) Copies of the Supplier’s invoice showing Goods’ description, quantity, unit price, and total amount;

(ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

(iii) Copies of the packing list identifying contents of each package;

(iv) Insurance certificate;

(v) Manufacturer’s or Supplier’s warranty certificate;

(vi) Inspection certificate, issued by the nominated inspection agency, and the Supplier’s factory inspection report; and

(vii) Certificate of origin.

GCC 12.2—*Applicable Delivery Mode:* **Delivered Duty Paid (DDP) of Incoterms 2011**

8. Insurance (GCC Clause 13)

GCC 13.1— The Goods supplied under the Contract shall be **Delivered Duty Paid (DDP)** under which all the risk is transferred to the buyer / concerned Health Institution only after the intended goods have been delivered to their desired destination. Hence insurance coverage is seller’s responsibility for arranging appropriate coverage.

**9. Spare Parts (GCC Clause 16)**

**After sale service with spare parts shall be 3 years.**

10. Warranty (GCC Clause 17)

GCC 17.2—**Warranty for repair with parts& without parts shall be (3+2) years.** The Supplier shall, in addition, comply with the guarantees associated with the performance and/or conformance specifications specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary *in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance / conformance tests in accordance with GCC Clause 10,*

**Or**

(b) Pay liquidated damages to the Purchaser with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be **0.05% per day**or**0.5%**per week up-to a maximum of **10%**.of the total Contract price.

11. Payment (GCC Clause 18)

GCC 18.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

**Payment for Goods supplied:**

Payment shall be made in **Pak. Rupees** through **crossed cheques** in the following manner:

(i) **On Acceptance:  *Twenty (30) percent*** of the Contract Price of Goods received shall be *paid within* ***thirty (20) days*** *of receipt of the Goods upon submission of claim duly supported by an* ***Acceptance Certificate*** *issued by the Purchaser/ concerned Procuring Entity****.***

(ii) ***Eighty (80) percent*** of the Contract Price of the Goods shall be *paid to supplier within* ***thirty (30) days*** *after installation/operationalization & inspection by the Inspection Committee of intended good sat destination or, in case of any import, through irrevocable confirmed letter of credit opened in favor of the Supplier* for supplying in Client’s country, upon submission of documents specified in GCC Clause 12.

In case the Client and the supplier mutually agree, 100% payment may be made as a one-time payment after the delivery, installation, inspection and Acceptance Certificate issued by the Client.

In case of an import, payment of local currency portion shall be made in Pak Rupees within ***thirty (30) days*** *of presentation of claim* supported by a **Certificate from the Purchaser** declaring that the Goods have been delivered and accepted and that all other contracted Services have been performed.

12. Liquidated Damages (GCC Clause 25)

GCC 25.1—Applicable rate: **0.5% per week** or **0.05% per day of the total Contract price**

Maximum deduction: **≤ 10% of the total contract amount.**

13. Disputes Resolution (GCC Clause 31)

GCC 31.3—The dispute resolution mechanism to be applied pursuant to GCC Clause 31.2 shall be as follows:

In the case of a dispute between the Purchaser and the Supplier, the dispute shall be referred to adjudication or arbitration in accordance with **The Arbitration Act 1940.**The jurisdiction of Court shall be of **Peshawar, Khyber Pakhtunkhwa.**

14. Governing Language (GCC Clause 31)

GCC 31.1—The Governing Language shall be: **English**

**15**. **Applicable Law (GCC Clause 32)**

GCC 32.1-The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan which includes the following legislation:

* **NWFP Procurement of Goods, Works &Consulting Services Ordinance 2002**
* **Khyber Pakhtunkhwa Procurement of Goods, Works & Services Rules 2014**
* **The Drug Act 1976**
* **The Arbitration Act 1940**
* **The Contract Act 1876**
* **The Employment of Children (ECA) Act 1991**
* **The Bonded Labour System (Abolition) Act of 1992**
* **The Factories Act 1934**

16. Notices (GCC Clause 33)

17. Duties & Taxes (GCC clause 34)

The Unit price quoted by the bidder shall be: inclusive of all duties and taxes.

GCC 33.1—Purchaser’s address for notice purposes:

**Procurement Cell,**

**Gajju Khan Medical College, Swabi**

**Address & Contact:**

**Gajju Khan Medical College Swabi**

**Contact # 0938-280221**

Email:[gkmc.swabi@gmkc.com](mailto:gkmc.swabi@gmkc.com)

Supplier’s address for notice purposes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# SECTION-II

# Evaluation Criteria

**Medical Equipments, Instruments & General Items**

**Lot-1A**

**Evaluation Criteria for Procurement of Medical Equipment:**

**Attention:** The bidders must carefully read the instructions in the **Bid Data Sheet** &**Special Conditions of Contract** in Section-I and in the **Evaluation Criteria** in Section-II of the SBDs to submit the requisite documents in the sequence indicated in the Evaluation Criteria as per their Serial Number below and must place the said documents by creating nine sections in their Technical Bids for evaluation purpose. All the supporting documents must be attested by the Chief Executive of the firms.Non-compliance to the stated instruction may lead to their technical disqualification.

**(Technical Evaluation Marks: 70)**

| **S #** | **Parameters** | **Sub-parameters** | **Total Marks: 51** |
| --- | --- | --- | --- |
| **Product Evaluation** | |
|  | **Conformance Specifications** | |  |
| **1** | **Compliance to Purchaser's Specifications** |  | **45** |
|  |  | Fully compliant with the required specifications | 45 |
| Compliant with minor deviation (up to 5% subject to main function is not effected) | 40 |
| Compliant with minor deviation (up to 10% subject to main function is not effected) | 35 |
| **2** | **Product Certification** |  | **4** |
|  | **US(FDA)** | * US food and Drug Administration (FDA) 510K | **2** |
|  | **CE(MDD)** | * European Community (CE) MDD | **2** |
|  | **Note:** | **Maximum aggregate marks shall not be more than 4** |  |
|  | **Performance Specifications** | |  |
| **3** | **Product’s Local Performance** |  | **2** |
|  |  | One Satisfactory Performance Certificate for each quoted equipment from the public sector medical institutions within Pakistan (1 marks for each certificate up to maximum 2) | 2 |
|  | **Firm Evaluation** | | **Total Marks: 19** |
| **4** | **Legal Requirement** |  | **09** |
|  |  | Manufacturer Authorization Certificate, or  Partnership Deed with manufacturer | 05 |
|  |  | Sales Tax Registration from FBR, Islamabad | 02 |
| IT-1 or IT-2 Form showing net annual sales | 02 |
| **5** | **Technical Staff** |  | **06** |
|  |  | Simple Technician | 1 |
| Diploma Engineer | 3 |
| Graduate Engineers (For High Tech / Critical equipment). | 6 |
| **Note: Maximum aggregate marks shall not be more than 06** |  |
| **6** | **Warranty Period Extension** |  | **4** |
|  |  | 02 Marks for each additional year for parts and Services  **Note: Warranty already incorporated vide sub clause 09 of affidavit at SBD is Mandatory.**  **Note: Maximum aggregate marks shall not be more than 06** |  |

Total Marks in Technical Criteria: **70**

Qualifying Percentage in Technical Criteria: **70%**

Qualifying Marks: **49**

**Lot-1B**

| **S #** | **Parameters** | **Sub-parameters** | **Total Marks: 51** |
| --- | --- | --- | --- |
| **Product Evaluation** | |
|  | **Conformance Specifications** | |  |
| **1** | **Compliance to Purchaser's Specifications** |  | **45** |
|  |  | Fully compliant with the required specifications | 30 |
| Compliant with minor deviation (up to 5% subject to main function is not effected) | 25 |
| Compliant with minor deviation (up to 10% subject to main function is not effected) | 20 |
| Display/Performance of the items (to be assessed by the end user) | 15 |
| **2** | **Product Certification** |  | **4** |
|  | **US(FDA)** | * US food and Drug Administration (FDA) 510K | **2** |
|  | **CE(MDD)** | * European Community (CE) MDD | **2** |
|  | **Note:** | **Maximum aggregate marks shall not be more than 4** |  |
|  | **Performance Specifications** | |  |
| **3** | **Product’s Local Performance** |  | **2** |
|  |  | One Satisfactory Performance Certificate for each quoted equipment from the public sector medical institutions within Pakistan (1 marks for each certificate up to maximum 2) | 2 |
|  | **Firm Evaluation** | | **Total Marks: 19** |
| **4** | **Legal Requirement** |  | **09** |
|  |  | Manufacturer Authorization Certificate, or  Partnership Deed with manufacturer | 05 |
|  |  | Sales Tax Registration from FBR, Islamabad | 02 |
| IT-1 or IT-2 Form showing net annual sales | 02 |
| **5** | **Technical Staff** |  | **06** |
|  |  | Simple Technician | 1 |
| Diploma Engineer | 3 |
| Graduate Engineers (For High Tech / Critical equipment). | 6 |
| **Note: Maximum aggregate marks shall not be more than 06** |  |
| **6** | **Warranty Period Extension** |  | **4** |
|  |  | 02 Marks for each additional year for parts and Services  **Note: Warranty already incorporated vide sub clause 09 of affidavit at SBD is Mandatory.**  **Note: Maximum aggregate marks shall not be more than 06** |  |

Total Marks in Technical Criteria: **70**

Qualifying Percentage in Technical Criteria: **70%**

Qualifying Marks: **49**

**Financial Criteria (30 Marks):**

|  |  |  |  |
| --- | --- | --- | --- |
| **S #** | **Parameters** | **Sub-Parameters** | **Total Marks: 30** |
|  | **Price** |  | **30** |
|  |  | Lowest Price will get full marks.  The formula to calculate the marks for the price submitted is:  [Lowest Price (Fm)/Price of Bid under consideration (F)] x100 x 0.30 | 30 |

**Total Marks (Technical Criteria + Financial Criteria): 100**

The bidders achieving a minimum of **49**marks (i.e., 70%) out of **70** marks in the Technical Evaluation will be declared technically qualified. Financial bids of only technically qualified bidders will be opened publicly at the time to be announced by the Procuring Agency. The Financial Bids of technically disqualified bidders will be returned un-opened to the respective Bidders. After getting the financial score from the remaining **30** marks, the two scores will be combined to identify the highest ranking firm.

**Merit Point Evaluation Methodology:** Contract will be awarded to the lowest evaluated responsive firm which gets the maximum marks and becomes the highest ranking in the Combined Evaluation calculated through the Merit Point Average Methodology which puts greater emphasis on non-price factors like stringent global certifications on Conformance Specifications (i.e., meeting the required technical specifications), Performance Specifications (i.e., meeting the requirements the product is designed for) leading to customer satisfaction verification, certifications of the technical staff, provision of maintenance & services, provision of training on equipment and post-warranty services etc. The following weightages will be given to the technical and financial scores:

Technical Score: 70

Financial Score: 30

**Annex-IA**

**LIST OF BIO-MEDICAL EQUIPMENT FOR BASIC SCIENCES DEPARTMENTS**

(Detailed approved Specifications are at the end of bid documents)

**Evaluation Criteria for Procurement of Instruments & Laboratory-ware:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Parameters** | **Detail** | **Total Marks** | **Remarks** |
| 1 | Past Performance  (Last one year)  As per signed Bid Form 4 | Major institutions served:   |  |  |  | | --- | --- | --- | | I | No institution served | 0 | | Ii | 1 | 4 | | Iii | 2 to 3 | 07 | | Iii | 4 to 5 | 10 | | 10 | Institutions include public sector medical institutions within Pakistan |
| 2 | Market experience in quoted items | |  |  |  | | --- | --- | --- | | i | 1 - 3 years | 3 | | ii | 4 - 5 years | 4 | | iii | Above 5 years | 5 | | 5 | As a minimum requirement, during any of the last three years, he must have completed at least **one** contract involving the supply, of similar Goods and each at least 50 % of comparable scale. |
| 3 | Financial Status | |  |  |  | | --- | --- | --- | | i | Income Tax Return (Last year) | 5 | | ii | Sales Tax Return (Last year) | 5 | | 10 | The bidder must submit Income Tax & Sales Tax returns for the last year. |
| 4 | Product Sample | Goods Samples will be examined & accepted by the Technical & Evaluation Committee as per the following parameters:   * Consistency in quality * Durability  |  |  |  | | --- | --- | --- | | I | Excellent | 15 | | Ii | Good | 10 | | Iii | Satisfactory | 5 | | Iv | Unsatisfactory | 0 | | 15 | Product that **100%** comply with the advertised specifications will be considered for evaluation |

**Total marks: 40**

**Qualifying marks: 70% (28).**The financial bids of technically accepted bidders will be opened publicly at a time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned un-opened to the respective Bidders. Lowest priced bid from technically qualified bidder will be accepted.

**Annex-IA**

**LIST OF BIO-MEDICAL EQUIPMENT FOR CLINICAL SCIENCES DEPARTMENTS**

(Detailed approved Specifications are at the end of bid documents)

**ENT**

|  |  |  |
| --- | --- | --- |
| **S#** | **Name of Equipment** | **Qyt** |
| 2 | SUCTION APPARATUS | 3 |
| 3 | Pure ToneAudiometer  Advanced | 1 |
| 4 | Impedance Audiometer/Tympanometer | 1 |
| 5 | Otoacoustic Emission Tests / ERO.SCAN Diagnostic | 1 |
| 6 | Brainstem Evoked Response Audiometer with ASSR | 1 |
| 11 | DIGITAL OTOSCOPE | 2 |
| 12 | DIAGNOSTIC OTOSCOPE with C- cell battery Handle & Rechargeable Handle | 6 |
| 13 | Hydraulic Surgeon Chair (With Back & Arm-Rest) | 4 |
| 14 | CO2 Laser for ENT | 1 |
| 15 | CRYOSET FOR ENT | 1 |
| 16 | OF MASTOID DRILL (PNEUMATIC) WITH ACCESSORIES | 1 |
| 17 | HARMONIC SCALPEL | 1 |
| 18 | ENT OT CELING LIGHT DOUBLE DOME | 1 |
| 19 | ENT Treatment Workstation | 1 |
| 20 | Operation Microscope for ENT with Video Attachment for Teaching & Recording | 1 |
| 21 | Operating / Examination Microscope for ENT OPD | 2 |
| 22 | OT TABLE | 2 |
| 23 | FLOOR SCRUBBING MACHINE. | 1 |
| 24 | PORTABLE SUCTION MACHINE | 4 |
| 29 | Rigid Bronchoscope Adult | 1 |
| 30 | Rigid Bronchoscope Peads | 1 |
| 31 | CMOS Video Rhino Laryngoscope |  |
| 32 | Direct Laryngoscope | 1 |
| 33 | ENT Drill electric | 1 |
| 34 | Rigid Esophagoscope Adult | 1 |
| 35 | Rigid Esophagoscope Peads | 1 |
| 36 | Fess Instruments |  |
| 37 | ENT LED Headlight | 8 |
| 38 | 1. INCINERATOR | 01 |

**Gynae/OBS**

|  |  |  |
| --- | --- | --- |
| S.NO | NAME OF BIO MEDICAL EQUIPMENTS/ITEMS | QTY |
| 1 | Ultrasound with linear, vaginal, section probes and puncture | 1 |
| 2 | Hysteroscope | 1 |
| 3 | Colposcope | 1 |
| 4 | Laparoscope | 1 |
| 54 | Nebulizer | 4 |
| 57 | Suction Machine | 4 |
| 58 | Delivery Tables | 6 |
| 59 | Instruments sterilizer/ Small autoclave | 2 |

**Psychiatry**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Item Name** | **Qty** |
| 1 | **Neurovvirtual 25 Channel EEG machine,** | 1 |
| 2 | **ECT machine** | 1 |

**Urology**

|  |  |  |
| --- | --- | --- |
| **S#** | **Name of item** | **Qty** |
| 1 | **HOLMIUM Laser system for urology applications** |  |
| 2 | **Bipolar Resectoscope** |  |
| 3 | **Magnet plate on the unit enables easy & space-saving mount for resection box.** **Consisting of** |  |
| 4 | **URS Adult** |  |
| 5 | **Rigid Biopsy Forceps** |  |
| 6 | **Nephroscope** |  |
| 7 | **Pneumatic Lithoclast** |  |
| 8 | **Peads Cystoscope** |  |
| 9 | **Peads Resectoscope** |  |
| 10 | **Urethrotome Peads** |  |
| 11 | **Urethrotome Adult** |  |
| 12 | **Video Flexible Cvstoscope** |  |
| 13 | **URS Adult Rigid** |  |
| 14 | **Urology Laparoscopic Hand Instruments** |  |
| 15 | **Video Flexible URS** |  |
| 16 | **High Definition Endovision System** |  |
| 17 | **HD Camera System** |  |
| 18 | **Suction/Irrigation Set** |  |
| 19 | **MINIATURE NEPHROSCOPE MIP M** |  |

**ORTHOPEADIC**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Modality name with specification** | **Qty** |
| 1 | Interferential Therapy | 03 |
| 2 | Electrical muscle 'stimulator | 06 |
| 3 | Microwave Diathermy | 04 |
| 4 | Hydrotherapy Unit | 01 |
| 5 | Shortwave Diathermy | 6 |
| 6 | Cervical Traction | 2 |
| 7 | Therapeutic Ultrasound | 2 |
| 8 | Lumber Traction | 3 |
| 9 | Nerve Conduction Study/ EMG | 2 |
| 10 | Radiant Bath/ Tunnel Bath | 6 |

Lot-2

**Evaluation Criteria for Procurement of Instruments & Laboratory-ware:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Parameters** | **Detail** | **Total Marks** | **Remarks** |
| 1 | Past Performance  (Last one year)  As per signed Bid Form 4 | Major institutions served:   |  |  |  | | --- | --- | --- | | I | No institution served | 0 | | Ii | 1 | 4 | | Iii | 2 to 3 | 07 | | Iii | 4 to 5 | 10 | | 10 | Institutions include public sector medical institutions within Pakistan |
| 2 | Market experience in quoted items | |  |  |  | | --- | --- | --- | | i | 1 - 3 years | 3 | | ii | 4 - 5 years | 4 | | iii | Above 5 years | 5 | | 5 | As a minimum requirement, during any of the last three years, he must have completed at least **one** contract involving the supply, of similar Goods and each at least 50 % of comparable scale. |
| 3 | Financial Status | |  |  |  | | --- | --- | --- | | i | Income Tax Return (Last year) | 5 | | ii | Sales Tax Return (Last year) | 5 | | 10 | The bidder must submit Income Tax & Sales Tax returns for the last year. |
| 4 | Product Sample | Goods Samples will be examined & accepted by the Technical & Evaluation Committee as per the following parameters:   * Consistency in quality * Durability  |  |  |  | | --- | --- | --- | | I | Excellent | 15 | | Ii | Good | 10 | | Iii | Satisfactory | 5 | | Iv | Unsatisfactory | 0 | | 15 | Product that **100%** comply with the advertised specifications will be considered for evaluation |

**Total marks: 40**

**Qualifying marks: 70% (28).**The financial bids of technically accepted bidders will be opened publicly at a time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned un-opened to the respective Bidders. Lowest priced bid from technically qualified bidder will be accepted.

**Annex-II**

**List of Instruments and Lab ware of Clinical Sciences Departments**

(Detailed approved Specifications are at the end of bid documents)

**ENT**

|  |  |  |
| --- | --- | --- |
| 1 | OPD INSTRUMENT SET | 3 |
| 7 | SET FOR SMR & other nasal surgery | 4 |
| 8 | SET FOR TONSILLECTOMY | 4 |
| 9 | SET FOR Mastoidectomy | 2 |
| 10 | SET FOR STAPEDECTOMY | 1 |
| 25 | Motorized electric bed | 10 |
| 26 | MICROEAR SURGERY HAND INSTRUMENTS | 2 |
| 27 | GENERAL SET FOR ENT OT | 3 |
| 28 | Fine cutting set( 3 Sets) | 3 |
| 38 | **LINEN** |  |
| 39 | HOSPITAL FURNITURE |  |
| I | RESUSCITATIONTROLLY |  |
| Ii | DRUGDISPENSINGTROLLEY |  |
| Iii | DRESSINGTROLLY |  |
| Iv | DRIPSTAND |  |
| V | PATIENTTROLLY |  |
| Vi | WHEELCHAIR NON FOLDING |  |
| Vii | WHEELCHAIR |  |
| Viii | STRETECHER FOR PATIENTS |  |
| Ix | STORAGE CABINET FOR MEDICINE AND SURGICAL INST |  |
| X | LINENTROLLY |  |
| 40 | MEDICAL GASES SUPPLY |  |

**Gynae/OBS**

|  |  |  |
| --- | --- | --- |
| S.NO | NAME OF BIO MEDICAL EQUIPMENTS/ITEMS | QTY |
| 5 | Sphygmomanometer Desk Type | 6 |
| 6 | Baby weighing scale | 2 |
| 7 | Fetal stethoscopes /Fetoscope | 4 |
| 8 | Instrument Sterilizer | 2 |
| 9 | Kidney basins(stainless steel) | 6 |
| 10 | Sponge bowls(stainless steel) | 6 |
| 11 | Clinical oral thermometer (dual Celsius /Fahrenheit scale) | 10 |
| 12 | Low reading thermometer (dual Celsius/Fahrenheit scale) | 2 |
| 13 | Surgeon’s hand bush with white nylon bristles | 6 |
| 14 | Plastic sheeting(1) | 1 |
| 15 | Perineal /Veginal/Cervical Repair pack | 1 |
| 16 | Vaginal speculum (Hamilton Bailey(1).-----type | 1 |
| 17 | Neonatal resuscitation pack | 1 |
| 18 | Ventilatory Bag(1) | 1 |
| 19 | Suction catheter Ch 12(2) | 6 |
| 20 | Suction catheter Ch 10(2) | 6 |
| 21 | Bivalve speculum | 1 |
| A | Small(1) | 1 |
| B | Medium(1) | 1 |
| C | Large(1) | 1 |
| 22 | Sponge forceps(1) | 1 |
| 23 | Uterine sound(1) | 1 |
| 24 | Vulsellum forceps(1) | 1 |
| 25 | Dressing forceps(1) | 1 |
| 26 | Obstetrics forceps, outlet, mid cavity breach | 2 |
| 27 | Basic Equipment for Uterine Evacuation | 2 |
| 28 | Vaginal speculum (sims) (1) | 2 |
| 29 | Sponge (ring) forceps or uterine packing forceps(1) | 2 |
| 30 | Single tooth tenaculumforeceps(1) | 2 |
| 31 | Long dressing forceps(1) | 2 |
| 32 | Uterine dilators,size 13-27 (French) 1-set. | 2 |
| 33 | Sharp and blunt uterine curettes, size o or 00(1) | 2 |
| 34 | Malleable metal sound(1) | 2 |
| 35 | Manual vacuum aspiration | 2 |
| 36 | Basic uterine evacuation instruments PLUS | 2 |
| 37 | Vacuum syringes(single or double value) | 2 |
| 38 | Silicone lubricant | 2 |
| 39 | Adapters | 2 |
| 40 | Flexible cannulae ,size 4 to 12 mm | 2 |
| 41 | Vaccum aspiration with electric pump basic uterine evacuation + hand pump | 2 |
| 42 | Vacuum pump with extra glass bottles | 2 |
| 43 | Connecting tubing | 2 |
| 44 | Cannulae (any of the following) Flexible, 5,6,7,8,9,10 mm. | 2 |
| 45 | Curved rigid 7,8,9,10,11,12,14 mm | 2 |
| 46 | Straight right, 7.8.9.10.11.12. mm | 2 |
| 47 | Equipment for insertions and removals of contraceptive sub dermal implants | 2 |
| 48 | Trocar with plunger No 10 | 2 |
| 49 | Dissecting forceps | 2 |
| 50 | Tweezers | 2 |
| 51 | Minikan for delivery(teaching) | 1 |
| 52 | CTG Machine | 2 |
| 53 | Models  Twins Pregnancy  Breech presentation  Trasveselie  Plaeata Previa  Normal pregnancy  Ectopic pregnancy  Pelric girdle  Fetal head | 2 Each |
| 55 | Eclampsia Beds | 4 |
| 56 | Pulse Oximiter | 4 |
| 60 | Adult Weight Machine | 3 |
| 61 | Baby Weight Machine | 3 |
| 62 | Spot lights | 6 |

**ORTHOPEADIC**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Sets** | **Qty** |
| 1 | FLEXIBLE REAMER SET |  |
| 2 | A/O FRACTURE REDUCTION SET |  |
| 3 | BROAD TIP SCISSOR |  |
| 4 | GENERAL ORTHOPEDIC SET |  |
| 5 | INSTRUMENT SET FOR INTER LOCKING INTRAMEDULLARY |  |
| 6 | INSTRUMENT SET FOR EXTERAL FIXATION |  |
| 7 | INSTRUMENT SET FOR FEMORAL PLATING (LARGE FRAGMENT) |  |
| 8 | INSTRUMENT SET FOR FEMORAL NAILING |  |
| 9 | INSTRUMENT SET FOR HEMI ARTHOPLASTY |  |
| 10 | INSTRUMENT SET FOR HUMERUS NAILING |  |
| 11 | INSTRUMENT SET FOR HEMERUS PLATING |  |
| 12 | INSTRUMENT SET FOR K-WIRE |  |
| 13 | INSTRUMENT SET FOR RADIUS AND ULNA NAILING |  |
| 14 | INSTRUMENT SET FOR RADIUS AND ULNA PLATING |  |
| 15 | INSTRUMENT SET FOR TIBIAL NAILING |  |
| 16 | INSTRUMENT SET FOR TIBIAL PLATING |  |
| 17 | INSTRUMENT SET FOR TOTAL HIP ARTHOPLASTY |  |

# SECTION-III

# Schedule of Requirements

* **Supply Schedule**

2. Technical Specifications & Ancillary Services

## Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the bidding documents by the Govt-MCC/Purchaser, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable bidders to prepare their bids efficiently and accurately, in particular, the Price Schedule, for which a Rate Form is provided in Part-II: Section-III. In addition, the Schedule of Requirements, together with the Bid Form-V: Price Schedule (which shall be submitted to the Procuring Entity by the selected Bidder), should serve as a basis in the event of quantity variation at the time of supply/delivery of contract pursuant to ITB Clause 37.

The date or period for delivery should be carefully specified, taking the date prescribed herein from which the Purchaser’s delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit etc.

**Section III. Schedule of Requirements**

The supplies shall be delivered in accordance with the subsequent Purchase Orders to be issued by the Health Department (provincial enteritis, vertical programs and concerned districts) as per following schedule of requirements:-

**Schedule of Requirements**

The supplies and related services shall be delivered in accordance with the subsequent Purchase Order(s), being an integral part of Contract, to be issued by Principal Gajju Khan Medical College Swabi to the successful bidders along with Contract as per following schedule of requirements:-

**Annex-A**

**Supply Schedule:**

1. **For Imported Goods:**

|  |  |  |
| --- | --- | --- |
| **Mode of Penalty** | **100% Quantity as per Purchase Order** | **Total delivery period** |
| Without penalty | 90 days[[1]](#footnote-1) | 90 days |
| With penalty @ 0.067 % per day after 90 days of Purchase Order | 30 days | 120 days |

1. **For Local Goods:**

|  |  |  |
| --- | --- | --- |
| **Mode of Penalty** | **100% Quantity as per Purchase Order** | **Total delivery period** |
| Without penalty | 60 days[[2]](#footnote-2) | 60 days |
| With penalty @ 0.067 % per day after 60 days of Purchase Order | 10 days | 70 days |

***Note:******The total delivery period include opening of Letter of Credit (if any), transportation from manufacturer’s destination to the Purchaser’s Country Port, custom clearance and inland transportation from Purchaser’s Port to the end destination (districts). Installation, commissioning, test-run, relevant staff training and initial maintenance are NOT included in the delivery period. However, payment to the supplier will be subject to satisfactory report by the Inspection Team.***

**Annex. B**

**b). Liquidated Damages / Penalty**

* + 1. Wherein the Supplier entirely fails to complete deliveries as per purchase order and within the stipulated time frame specified in the Schedule of Requirements, the Contract to the extent of non-delivered portion of supplies shall stand cancelled.
    2. After the cancellation of the Contract no supplies shall be accepted and the amount of Performance Guaranty/ Security to the extent of non–delivered portion of supplies shall be forfeited.
    3. If the Supplier fails to supply the whole consignment and not able to deliver to any destination, the entire amount of Performance Guaranty/ Security shall be forfeited to the Government account and the firm shall be blacklisted minimum for two years for future participation.
    4. The exact time frame for making supplies with and without penalty shall be indicated in subsequent purchase orders.
    5. In case of late delivery of goods beyond the periods specified in the Schedule of Requirements and subsequent purchase order, a penalty @ 0.067% per day of the cost of late delivered supply shall be imposed upon the Supplier.
    6. Extension in the delivery period (if any) will be considered by the Purchaser on case to case basis and strictly in accordance with the Rules of Khyber Pakhtunkhwa Procurement of Goods, Works and Services Rules, 2013.

**c) Incidental Services**

The bidders are required to either incorporate or quote separately the costs of following incidental services being part of the contract.

1. **Transportation:** Equipment and supplies will be delivered up to the place of installation / final destination by the bidder at his cost and mode of transportation including loading / unloading.
2. **Insurance:** All insurance charges will be borne by the supplier.
3. **Custom Clearance:** Equipment and supplies will be cleared (from airport/seaport) customs department by the supplier and charges/duty/taxes if any will be paid by the supplier.
4. **Installation:** Supplier will install the equipment at the designated place of work, free of charge, give test-run and if required, will impart on job training.
5. **Test-Run / Commissioning:** Equipment will be subjected to test-run after commissioning.
6. **Staff Training:** Where required, on job training to be provided to working staff on the equipment to be supplied / installed**.**
7. **Initial Maintenance:** Supplier will be responsible for initial maintenance of the equipment (repair and parts), for THREE complete years starting from the date of installation/test-run.
8. **Availability of Spare Parts and Consumables:** Supplier will guaranty through reliable means, acceptable to Purchaser, prompt and easy availability of spare parts & consumables for the period of FIVE years (apart from initial three years as in clause **vii** above), on reasonable rates.
9. **After Sales Service:** Supplier will provide free after sales service from trained and qualified technical staff, free of charge for EIGHT complete years (including three years with parts as mentioned above in clause **vii**), after the date of installation / test-run.

**d) Warranty**

The supplier/Contractor will provide comprehensive warranty (on Judicial Paper as per Bid form 2) of free after sales service, maintenance, replacement of parts, and working of the equipment for **three years** from the date of installation/test-run. Post warranty maintenance contract for another **Two years (Total 05 years)**, including after sales service without parts, rates (companies to offer percentage (%) of the contract value in the technical bid as mentioned in clause A & B of the evaluation sheet of the bidding document. Warranty and post warranty maintenance contract rate shall be acknowledged from the original manufacturer regardless of change of local authorized dealer.

**e) Additional instructions**

1. Please clearly indicate the country of origin, wholly or parts, etc.
2. Indicate place/port of shipment.
3. Any state licensing or permission of export/sales/use requirements will be the responsibility of the supplier/manufacturer. Department of Health will not be responsible for any refusal, penalty or delay in this regard.
4. Complete literature on working, installation, circuiting, maintenance to be provided in English language, with the equipment.

Comprehensive training of working of the equipment and normal /minor repair, trouble-shooting will be arranged by the supplier/ manufacturer, for at least two working staff, (doctor/technician) at the manufacturers location, prior to shipment/ installation (for complex and high tech equipment).

**Annex. C**

**Price Schedule submitted by the Bidder.**

*(The approved price schedule submitted by the Bidder will be attached)*

**Annex. D**

**Purchaser’s Notification of Award**

*(Copy of the final letter will be attached)*

**Annex. E**

**Purchase Order.**

*(Specimen Sample of Health Institution/Project Purchase Order)*

|  |  |
| --- | --- |
| New KPK Logo | **Name of the Head…………………………………**  **Name of Health Institution………………………..**  **GOVERNMENT OF KHYBER PAKHTUNKHWA** |

|  |  |  |
| --- | --- | --- |
| **1** | **Purchase Order No** |  |
|  | **Date** |  |
| **2** | **Firm Name** |  |
| **3** | **Firm’s Address** |  |
| **4** | **Firm Contact No** |  |
| **5** | **Conditions of the Contract:** | As already communicated in the Standard Bidding Document |
| **6** | **Particulars of Stores:** | As per detail given below |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item No.** | **Item Name** | **Approved Specifications** | **Unit Price in PKR**  **(As per contract)** | **Quantity** | **Total Cost (PKR)**  **(Inclusive of all duties &taxes** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Additional instructions (if any):

1.

2.

3.

**Signature Authorized Staff**

**Annex F**

**Payment Schedule**

*(Payment to the Suppliers will be made against satisfactory performance and upon submission of required documents along with report of inspection committee formulated for the purpose. However, if there is any alternate payment schedule, agreed by the Purchaser and Supplier, will be annexed here)*

**Annex-G**

# SECTION-IV

# STANDARD FORMS

**BID COVER SHEET**

## BID FORM 1: Letter of Intention

## BID FORM 2: Affidavit

### BID FORM 3(A): Eligibility of the Bidders & Goods

### BID FORM 3(B): Manufacturer’s Authorization

### BID FORM 4: Firm’s Past Performance

### BID FORM 5: Price Schedule

### BID FORM 6: Performance Guarantee

**Contract Agreement Template**

### 

### BID COVER SHEET

Bid Ref. No. ------------------------ Date----------------------------

Name of the Supplier/Firm Contractor: --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Address:------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

E-mail:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Facsimile: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bid Security.

Bid Security attached with Financial Bid YES NO

Bid for:

⁯: All Items mentioned in the Schedule of Requirements.

⁯: Selected Items from the Schedule of Requirements[[3]](#footnote-3).

List of Selected Items: *(In case the Bidder has opted to bid for Selected Items, please type the Serial No[[4]](#footnote-4). and the name of the Items selected for Bidding. Use additional Sheets if Required)*

|  |  |
| --- | --- |
| *S. No.* | *Name of the Item* |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Signed:

Dated:

Official Stamp:

Attachment[[5]](#footnote-5): ⁯ Original receipt for the purchase of the bidding documents.

## ⁯BID FORM 1

**Letter of Intention**

*Bid Ref No.*

*Date of the Opening of Bids*

*Name of the Contract :{e.g. Supply of Medical Equipments/ Instruments/Lab Chemicals etc}*

To: ***[Principal Gajju Khan Medical College Swabi]***

Dear Sir/Madam,

Having examined the bidding documents, including Addenda Nos. *[insert* ***numbers& Date of individual Addendum]***, the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and deliver the Goods under the above-named Contract in full conformity with the said bidding documents and at the rates/unit prices described in the price schedule or such other sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.

We undertake, if our bid is accepted, to deliver the Goods in accordance with the delivery schedule specified in the schedule of requirements.

If our bid is accepted, we undertake to provide a performance security/guaranty in the form, in the amounts, and within the times specified in the bidding documents.

We agree to abide by this bid, for the Bid Validity Period specified in the Bid Data Sheet and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this bid, together with your written acceptance of the bid and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in Pakistan.

We confirm that we comply with the eligibility requirements as per ITB clauses 18 &19 of the bidding documents.

Dated thi*s [insert: number****]***day of *[insert: month****]***, *[insert: year].*

Signed:

In the capacity of *[insert:* ***title or position]***

Duly authorized to sign this bid for and on behalf of *[insert:* ***name of Bidder]***

## BID FORM 2

**AFFIDAVIT**

I/We, the undersigned solemnly state that:

1. We have read the contents of the Bidding Document and have fully understood it.
2. The Bid being submitted by the undersigned complies with the requirements enunciated in the bidding documents.
3. The Goods that we propose to supply under this contract are eligible goods within the meaning of Clause 18 of the ITB.
4. The undersigned are also eligible Bidders within the meaning of Clause 19 of the ITB of the Standard Bidding Documents.
5. The undersigned are solvent and competent to undertake the subject contract under the Laws of Pakistan.
6. The undersigned have not paid nor have agreed to pay, any Commissions or Gratuities to any official or agent related to this bid or award or contract.
7. The undersigned are not blacklisted or facing debarment from any Government, or its organization or project.
8. The undersigned has no dispute anywhere in the province regarding supplies.
9. The undersigned agree to give warranty with repair and parts for 03 years and after sale service without parts for 02 years.(Total services for 05 years, the firm will be bound to do so in the larger public interest in order to give maximum benefit to the masses by making the equipment/instruments operational for a maximum period of time).

We affirm that the contents of this affidavit are correct to the best of our knowledge and belief.

Signed

Note: **The affidavit must be on judicial stamp paper, signed by the Executive of the Firm & attested by Oath Commissioner.**

### BID FORM 3(A)

Name of the Firm

Bid Reference No:

Date of opening of Bid.

Documentary Evidence: Eligibility of the Bidders and Goods

|  |  |  |  |
| --- | --- | --- | --- |
| Required Documentation  (*To Be Filled by the Procuring Agency*) | Checklist[[6]](#footnote-6)  *(To be initialed by the Bidder against each document)* | Relevant Page Number[[7]](#footnote-7) in the Bid *(To be filled by the Bidder)* | Supporting Documents[[8]](#footnote-8)  *(To be filled by the Bidder with name of the documents that are submitted to meet the requirement)* |
| **Column:1** | **Column:2** | **Column:3** | **Column:4** |
| Valid Manufacturing License |  |  |  |
| Valid Registration(s) of quoted items |  |  |  |
| Valid Drugs Sale License[[9]](#footnote-9) |  |  |  |
| Valid Import License (where applicable) |  |  |  |
| Letter of Manufacturer's authorization |  |  |  |
| Partnership Deed (where applicable) |  |  |  |
| NTN Certificate |  |  |  |
| GST Certificate |  |  |  |
| Letter of Intention |  |  |  |
| Affidavit |  |  |  |
| One year experience evidence |  |  |  |
| Child Labor Free Certificate[[10]](#footnote-10) |  |  |  |
| Original Receipt of purchase of Bidding Documents |  |  |  |
|  |  |  |  |

### BID FORM 3(B)

**MANUFACTURER’S AUTHORISATION[[11]](#footnote-11)**

##### **ISSUE DATE\_\_\_\_\_\_\_\_\_\_\_\_\_**

##### **To: *[Name &Address of the Procuring Agency]***

WHEREAS *[name of the Manufacturer]* who are established, reputable & Pre-Qualified Manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]* do hereby authorize *[name and address of Supplier/ Agent]* to submit a bid, and subsequently negotiate and sign the Contract with you against the Invitation for Bids (IFB) No. *[Reference of the Invitation to Bid] for* the goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

This authorization is valid till \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature:--------------------------------------.

Designation:--------------------------------------

Official Stamp:-----------------------------------

### BID FORM 4

**Firm’s Past Performance[[12]](#footnote-12).**

Name of the Firm:

Bid Reference No:

Date of opening of Bid:

Assessment Period: (One Year as per Evaluation Criteria)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the Purchaser/Institution | Purchase Order No. | Description Of Order | Value of Order | Date of Completion | Purchaser’s[[13]](#footnote-13)  Certificate |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### BID FORM 5

**Price Schedule**

(To be provided to the Procuring Entity)

*User Note: This form is to be filled by the Bidder and shall submit with Financial Proposal to the .*

Name of the Firm:

Bid.Ref.No:

Date of opening of Bid.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Name of the Item | Unit Price (inclusive all applicable taxes) | No. of Units | Total Price | Discounts *(if any)* | Final Total Price (Inclusive of all taxes) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3\*4 | 5-6 |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
|  | TOTAL | | | | |  |

A) FINAL TOTAL PRICE: --------------------------------------------------

B) DISCOUNT[[14]](#footnote-14):--------------------------------------------------

C) FINAL QOUTED PRICE: --------------------------------------------------

(C=A-B)

Signature: -------------------------------------------------

Designation: ------------------------------------------------

Date: ------------------------------------------------

Official Stamp: ------------------------------------------

### BID FORM 6

**Performance Guarantee**

To: *[Name & Address of the Procuring Agency]*

Whereas *[Name of Supplier]* (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. *[number]* dated *[date]* to supply *[description of goods]* (hereinafter called “the Contract”).

And whereas it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a scheduled bank for the sum of **10%** of the total Contract amount as a Security for compliance with the Supplier’s performance obligations in accordance with the Contract.

And whereas we have agreed to give the Supplier a Guarantee:

Therefore we hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[Amount of the Guarantee in Words and Figures]* and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[Amount of Guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the\_\_\_\_\_\_\_\_\_\_\_\_ day of\_\_\_\_\_\_\_\_\_, 200

Signature and Seal of the Guarantors/ Bank

Address

Date

**CONTRACT AGREEMENT**

**THIS CONTRACT** is made at on day of 2016, between The Government of Khyber Pakhtunkhwa, Health Department, (hereinafter referred to as the “Purchaser”) of the First Part; and M/s *(firm name)*a firm registered under the laws of Pakistan and having its registered office at *(address of the firm)* (hereinafter called the “Supplier”) of the Second Part (hereinafter referred to individually as “Party” and collectively as the “Parties”).

**WHEREAS** the Purchaser invited bids for procurement of goods (Bio-Medical Equipments/Instruments), in pursuance whereof M/s *(firm name)*being the Manufacturer/ authorized Agent of (item name) in Pakistan and ancillary services offered to supply the required item (s); and

Whereas, the Purchaser has accepted the bid by the Supplier;

**NOW THE PARTIES TO THIS CONTRACT AGREE TO THE FOLLOWING;**

1. **The Contract:** The following documents shall be deemed to form and be read and construed as integral part of this Contract , viz:-
   1. General Conditions of Contract **(GCC)**
   2. Special Conditions of Contract **(SCC)**
   3. Schedule of Requirements. **Annex- A**
      1. Supply Schedule
   4. Technical Specifications. **Annex- B**
   5. Price Schedule submitted by the Bidder. **Annex- C**
   6. Purchaser’s Notification of Award. **Annex- D**
   7. Purchase Order. **Annex-E**
   8. Performance Security **Annex-F**
   9. List of Security Equipment, **Annex-G**

2. **Interpretation:** In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of this Contract hereinafter referred to as “Contract”:

1. **Term of the Contract:** This contract shall remain valid for *[Duration]* from the date of signing, unless amended by mutual consent.
2. The Supplier declares as under:
   1. *[Name of the Supplier]* hereby declares that it has not obtained or induced the procurement of any Contract, right, interest, privilege or other obligation or benefit from the Government of Khyber Pakhtunkhwa or any administrative subdivision or agency thereof or any other entity owned or

Controlled by it (Government of Khyber Pakhtunkhwa) through any corrupt business practice.

* 1. Without limiting the generality of the foregoing, [the Seller/ Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc., paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder’s fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or including the procurement of a Contract, right interest, privilege or other obligation or benefit in whatsoever form from Government of Khyber Pakhtunkhwa, except that which has been expressly declared pursuant hereto.
  2. *[The Supplier]* certifies that has made and shall make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with Government of Khyber Pakhtunkhwa and has not taken any action or shall not take any action to circumvent the above declaration, representation or warranty.
  3. *[The Supplier]* accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any Contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to Procuring Agency under any law, Contract or other instrument, be void able at the option of Procuring Agency.
  4. Notwithstanding any rights and remedies exercised by Procuring Agency in this regard, *[The Supplier]* agrees to indemnify Procuring Agency for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to Procuring Agency in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder’s fee or kickback given by *[The Supplier]* as aforesaid for the purpose of obtaining or inducing the procurement of any Contract, right, interest, privilege or other obligation or benefit in whatsoever form from Procuring Agency.
  5. In case of any dispute concerning the interpretation and/or application of this Contract shall be settled through arbitration under the Arbitration Act of 1940 (As amended from time to time).

1. **Items to be Supplied & Agreed Unit Cost:** (i) The Supplier shall provide to the Purchaser the items on the agreed cost more specifically described in the Price Schedule Submitted by the Bidder (Annex C).
2. Each Items supplied shall strictly conform to the Schedule of Requirements (Annex A) and to the Technical Specifications (Annex B) prescribed by the Purchaser against each item
3. The Unit Cost agreed in the Price Schedule (Annex C), is inclusive of all
4. taxation and costs associated with transportation and other agreed incidental costs.
5. **Shelf Life of Drugs:** During the time of delivery of drugs by the bidder, the shelf life for the imported drug shall not be less than **70%**, while it shall not be less than **90%** for the locally manufactured drugs**.**
6. **Payments:** The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services, as specified in the Schedule of Requirements and Technical Specifications in accordance with the Price Schedule submitted by the Supplier, the amount against the delivered items or such other sum as may become payable under the provisions of this Contract at the time and in the manner prescribed by this Contract.
7. **Mode of Payment:** All payments to the Supplier shall be made through Crossed Cheques issued in the name of [supplier’s name]
8. **Payment Schedule**: All payments to the Supplier shall be made in accordance with the SCC & agreed Payment Schedule at Annex: F of Part-II: Section-III of the Standard Bidding Documents, upon satisfactory completion of delivery and fulfillment of documentary and Codal formalities highlighted in the Payment Schedule.
9. **Performance Guarantee:** (i) The Supplier, within 07 days upon the receipt of Purchase Order and upon signing the Unit Rate Contract (selected items as mentioned in the Contract in annexure) shall provide to the Purchaser a Performance Security equivalent to 10% of the total Contract amount on the prescribed format (Bank Guarantee) and in prescribed manner. This Performance Guarantee shall be released to the Supplier upon successful completion of the Contract.

ii) Supplier’s Bid Security already submitted with the Bid shall only be released upon satisfactory submission of a Performance Guarantee in accordance with sub-clause (i) above.

iii) Failure to submit a Performance Guarantee shall result into forfeiture of Bid Security and Cancellation of Contract.

1. **Penalties/ Liquidated Damages.**

i) Wherein the Supplier fails to make deliveries as per purchase order and within the stipulated time frame specified in the Schedule of Requirement, the Contract to the extent of delivered portion of supplies shall stand cancelled.

ii) After the cancellation of the Contract no supplies shall be accepted and the amount of Performance Guaranty/Security to the extent of un–delivered portion of supplies shall be forfeited.

iii) If the Supplier fails to supply the whole consignment and not able to deliver to any district, the entire amount of Performance Guaranty/ Security shall be forfeited to the Government account and the firm shall be debarred minimum for two years for future participation.

iv)The exact time frame for making supplies with and without penalty shall be indicated in subsequent purchase orders.

v) In case of late delivery of goods beyond the periods specified in the Schedule of Requirements and subsequent purchase order, a penalty @ 0.067% per day of the cost of late delivered supply shall be imposed upon the Supplier.

VI) The raw material source and grade be clearly shown and accordingly the same be used in all supplies; if found changed anywhere in supply of the same product, the firm/supplier will be liable for black-listing for all its products and forfeiting all its call deposits and performance guarantees

VII) The rate offered should be less than/equal to anywhere quoted in same financial year. If anywhere quoted less, the firm/supplier will be liable for black-listing for all its products and forfeiting all its call deposits and performance guarantees

VIII) The health department buying units and the manufacturers / suppliers are bound to make sure the receipt of copy of Supply Order to the Health Directorate General Peshawar for consolidation of total supplies along with amount in PKR issued.

Those who did not fulfill the above criteria’s are liable to be proceeded against and be black listed.

1. **Notices:** All notices and correspondences incidental to this contract shall be in English language and shall be addressed to:

**For the Purchaser:**

**Procurement Cell,**

**Gajju Khan Medical College Swabi**

**Phone: 0938-280385 Fax No.0938-280221 Email:** [gkmc.swabi@gmail.com](mailto:gkmc.swabi@gmail.com)**,**

# SECTION-V

Eligible Countries

**Country Eligibility for the Provision of Goods, Works and Services**

As an exception, firms of a Country or goods manufactured in a Country may be excluded if:

As a matter of law or official regulation, **the Purchaser’s Country prohibits commercial relations with that Country**, provided that the Procuring Entity is satisfied that such exclusion does not preclude effective competition for the supply of the Goods or Works required, or

1. By an Act of Compliance with a **Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations**, the Purchaser’s Country prohibits any import of goods from that Country or any payments to persons or entities in that Country.

2. For the information of Purchasers and bidders, at the present time firms, goods and services from ***the following countries are excluded*** from this bidding:

* **Israel**

### New KPK Logo

**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**GENERAL ITEMS/OFFICE EQUIPMENTS**

**For the establishment of**

**GAJJU KHAN MEDICAL COLLEGE SWABI**

**Under National Competitive Bidding (NCB)**

March 2017

### New KPK Logo

**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**EQUIPMENTS**

**For the Department of ENT**

March 2017

|  |  |  |  |
| --- | --- | --- | --- |
| **S#** | **Name of Equipment** | **Specification** | **Qyt** |
| 1 | **OPD INSTRUMENT SET** | Set Contains: set of Nasal Speculum both thudicum & Killian, branded Otoscope, Laryngeal mirror different sizes, Nasopharyngeal mirrors different sizes, Ear suction, Suction apparatus, Siegles speculum, Tuning fork 512 Hz, Tongue depressor set, Bayonet forceps, , 3 Jobson Horne probe, Sterillizer, BP apparatus, Stethoscope, Aural F.body hook, Nasal F. body hook, 2 Crocodile Forcep, , 4 set of suction tips size 10, 12 8. Dressing forcep, Aural cup forcep, tilleys nasal forcep, | 3 |
| 2 | **SUCTION APPARATUS** | **A. PRODUCT DESCRIPTION**  i. High performance 1/5 horse power pumps delivers 0-26mm Hg(0-660 mmHg) | 3 |
| 1. Protection: dual protection system with float shut - off in the canister lid and inline Hydrophobic Filter to prevent back flow of fluid as well as airborne contaminants from entering the pump. 2. High durability: Features a protective canister bracket that holds the canister and protect the guage and adjustment knob from accidents. 3. Convenient: Features a Velco strap that allows you to wrap the power cord for improved portability. 4. Extra strength premium suction feet safety and securely attach the unit to most surfaces, preventing spillage. 5. Safe: Automatic resetting thermal limit switch prevents the unit from overheating. |
| SPECIFICATION:- |
| **B. Dimensions:** |
| i. Length:13.25"(33.7cm)  ii. Width :8" (20.3 cm)  iii. Height :9.75"(24.cm)  iv. Weight: 12.6 lbs (5.7 kg)  v. Shipping weight:14.5 lbs(6.6 kg)  vi. Motor : 120 VAC , 6Hz,5 amps  vii. Vaccum Range :0-26in Hg  viii. Horsepower:1/5  ix. Operating temp. range:500F to 104°F (10 to 40° C]  x. Storage conditions : Temp:- -4 to 104°F(-20 to 40° C)  xi. Humidity : Max 95% non-condensing |
|  |  | **C. Suction tip and rubber pipes**   1. Suction handle, with cut off hole, LUER cone, length 10 cm, for use with suction tubes. 2. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 5 Fr, Length 20 cm. 3. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 7 Fr, Length 20 cm. 4. PLESTER suction tubes, with grip plate, cut off hole and stylet, LUER, 9 Fr, Length 20 cm. 5. Suction tube, angular, LUER-lock, outer diameter 0.7mm, working length 6cm | 5 each |
| 1. Suction tube, angular, LUER-lock, outer diameter 1mm, working length 6cm. |
| 1. Suction tube, angular, LUER-lock, outer diameter 1.3mm, working length 6cm. |
| 1. Suction tube, angular, LUER-lock, outer diameter 1.5mm, working length 6cm. |
| 3 | **Pure ToneAudiometer**  **Advanced** | **Pure ToneAudiometer**  **Advanced Two Channel Clinical Audiometer with**  **High Frequency upto 20 KHz**  1. Air , Bone and Speech  2. Free Field ,Speech and Pure Tone  3. 2 Channel Binaural Speech  4. Automatic Threshold (Hughson Westlake)  5. Bekesy test  6. Automatic Speech Scoring  7. 2 Channel Master Hearing Aid  8. Tones : Pure, Warble and Pulsed Tones  9. Masking : WN, NB and SN Masking  Special Test: ,  SISI Free Field (Option) Stenger and ABLB Test  Loudness Balancing: 250 Hz, 500 Hz, 2kHz, 4kHz,  6kHz NB noise with direct comparison to standard curves.  Ttdecay:  Masking Limen Difference (MLD):  Monaural Loudness Balanceing (MLB):  Number of Channels : Two Independent Oscillators  Frequency Range : 125 Hz – 20kHz Intensity Range : -  10dB – 120dB (Air Conduction) -10dB – 80dB (Bone  Conduction) 5dB and 1 dB Attenuators  Frequency Resolution: Multi frequency, Medical CEmark.Software for patient management and examinations result, included  Accessories:  printer  Sterilization and storage system complete | 1 |
| 4 | **Impedance Audiometer/Tympanometer** | **Impedance Audiometer/Tympanometer**  Audiometer impedance with contra ear testing facilities  · Multifrequency  · Probe Frequency- 226Hz, 678Hz,800Hz,1000Hz  · Pressure Range- +200 to – 400 dapa  · Volume Range - 0.1 ml to 6.0 ml  · Accuracy - ±5% to ±10 dapa  · Test Time- < 3 Seconds  · Reflex Mode  · Test Frequencies- 500, 1000, 2000, 4000 Hz ± 2%  · Test Method- IPSI Lateral, Contralateral  · Noise (Band) - WN/HP/LP  · Intensities IPSI Lateral-70 to 110 dbHz  · Intensities Contra Lateral- 70 to 120 dbHz (with TDH 39 )  · Intensity Setting- Automatic or Manual  · Eustachian Tube Function - Intact and Perforated mode  · ETF Pressure Range-+ 300 to – 400 dapa  · Test -IPSI Lateral Reflex Test with AGC, Reflex Delay  · Test Programme- Reflex Test selectable  · Memory- Test Result of both ears  · Probe - Light weight, adjustable, Hand Held , With Built in control light & switch  · Printer- Silent Thermal Printer , (with paper printer facility)  · Display-Graphic LCD with adjustable contrast  · Power Supply- Mains 220-240 Volts, 50/60 Hz 25 VA  · PC Interface- USB Cable  · Automatic self-calibration | 1 |
| 5 | **Otoacoustic Emission Tests / ERO.SCAN Diagnostic** | **Otoacoustic Emission Tests / ERO.SCAN Diagnostic**  for DPOAE With printer  consisting of:   * ERO.SCAN Device with rechargeable battery and probe * Eartip set (110 pc.) * Eartip removal tool * Replacement probe tubes * Carrying case * PC software including database & power supply   With Upgraded to TEOAE | 1 |
| 6 | **Brainstem Evoked Response Audiometer with ASSR** | **Brainstem Evoked Response Audiometer with ASSR**   2 channels.   Windows based.   Bone Conduction.   Integrated database.   Pre-programmed auto tests.   Waveform reproducibility indication.   Split left/right recordings.   Simultaneous recording of condensation rarefactionstimuli.   Normative data indication.   Soft attenuator.   Wave editing during testing   Digital filter application (during and after test).   Add, subtract curves   Low noise amplifier  **Upgraded with OAE, ASSR and VNG, NCT**   Medical CE-mark   Easy portability   EcochG recordings with markers   Middle Latency   Late Latecy (P300, MMN etc.)   Cochlear Implant Stimulator Control  **ASSR:**   **PreAmplifier**   **2 channels**   Gain 80 dB   Frequency Response upto 8000Hz   Noise 6.0 nV Hz   CMR Ratio > 115 dB at any frequency between  0.1Hz & 10Hz.   Input Impedance > 10M   Accepted electrode offset > 300mV.   Power from main unit.   Impedance Check   Measuring Current 25uA.   Ranges 0.5k – 25k. | 1 |
| 7 | **SET FOR SMR & other nasal surgery** | **SET FOR SMR & other nasal surgery 4**  Complete Set, For all instruments made of stainless steel. All dYe made with hidden joints and leak proof. Manufacturer’s mark must be indicated on all instruments.   * 1. Joseph BP Knife handle no.7   2. Set of 3 killian nasal speculum (Adult)   3. Set of 3 killian nasal speculum (Paediatric)   4. Freer double ended periosteal elevator sharp & blunt both   5. Set of 3 Luc,s forceps   6. Hayman Turbinectomy scissor   7. Negus straight artery forcep   8. Nasal gouge plain and toothed V shaped   9. Hammer   10. Telleys nasal dressing forceps   11. Tele hankle forcep with marking   12. Needle holder   13. Adson Toothed forcep   14. Frazier Nasal suction tip size 8,10 & 12   15. Walsham forcep   16. Ash,sforcep   17. Antral perforator   18. Antral rasp   19. Antral retrograde gouge   20. Citelly punch forcep   21. Antral Trocar & cannula   22. Bone nibbler for lateral rhinotomy   23. Gigli saw   24. Flat chisel for nasal osteotomy   25. Towel clamps   26. Small Kidney tray   27. Instruments tray autoclavable | 4 |
| 8 | **SET FOR TONSILLECTOMY** | **SET FOR TONSILLECTOMY**  Complete Set, For all instruments made of stainless steel. All die made with hidden joints and leak proof. Manufacturer’s mark must be indicated on all instruments   * + 1. Magauran plate     2. Draffin biopds rods/ suspension rods     3. Boyle davis mouth gag adult size with set of 5 split tongue plates     4. Boyle davis mouth gag Paediatric size with set of 5 split tongue plates     5. Dennis brown tonsil holding forceps     6. Curved tonsillectomy scissor     7. Tonsillar dissector double ended     8. Tonsillar dissector with one end for dissection and other end for blunt plain dissector     9. Negus Straight tonsil artery forcep     10. Negus curved artery forcepshort curved & long curved     11. Gauze cutting scissor straight long     12. Anterior pillar retractor with blunt dissector     13. Negus Tie pusher     14. Tonsillectomy snare with wire     15. Yanker suction speculum     16. Set of Adenoid currete with guard of different sizes     17. Adenotome     18. Long BP knife handle no 7     19. Waugh tonsil dissecting forcep plain & toothed     20. Needle holder long     21. Towel clamps     22. Medium     23. Kidney tray     24. Instrument tray autoclavable | 4 |
| 9 | **SET FOR Mastoidectomy** | Complete Set, For all instruments made of stainless steel. All die made with hidden joints and leak proof. Manufacturer’s mark must be indicated on all instruments   * + 1. BP Knife handle     2. Two set of 3 ear speculum stained black     3. Two set of 3 ear speculum plain & sorted     4. Adison plain & toothed forceps     5. Needle holder     6. Two myringotomes     7. Plaster first incision knife     8. Rotary first incision knife     9. Sickle knife     10. Triangular knife     11. Aural crocodile forceps     12. Cawthrone crocodile scissors straight ,     13. Cawthrone crocodile scissors left     14. Cawthrone crocodile scissors right     15. Cawthorne hooks different angle     16. Cawthorne periosteal elevators     17. Granulation tissue forceps straight     18. Frazier 3 suction nozzle size 7, 8 & 10     19. Micro suction 4 nozzle     20. Micro Hartmann crocodile forceps straight & curved     21. Mollison mastoid retractor adult & paediatric     22. Micro Granulation tissue forceps straight, Right & left     23. Plaster Jansen retractor Left & Right     24. King vein graft pressing forcep     25. Mastoid chisel     26. Three Crocodile forceps     27. Instruments box     28. Needle box     29. Micro ear instruments ( elevator left & Right, measuring rod, curette,moblizer, aditus seeker) | 2 |
| 10 | **SET FOR STAPEDECTOMY** | Complete Set, For all instruments made of stainless steel. All die made with hidden joints and leak proof. Manufacturer’s mark must be indicated on all instruments   * + 1. BP Knife handle     2. Two set of 3 ear speculum stained black     3. Two set of 3 ear speculum plain & sorted     4. Adison plain & toothed forceps     5. Needle holder     6. Two myringotomes     7. Plaster first incision knife     8. Rotary first incision knife     9. Sickle knife     10. Triangular knife     11. Aural crocodile forceps     12. Cawthrone crocodile scissors straight ,     13. Cawthrone crocodile scissors left     14. Cawthrone crocodile scissors right     15. Cawthorne hooks different angle     16. Cawthorne periosteal elevators     17. Granulation tissue forceps straight     18. Frazier 3 suction nozzle size 7, 8 & 10     19. Micro suction 4 nozzle     20. Micro Hartmann crocodile forceps straight & curved     21. Mollison mastoid retractor adult & paediatric     22. Micro Granulation tissue forceps straight, Right & left     23. Plaster Jansen retractor Left & Right     24. King vein graft pressing forcep     25. Cramper     26. Three Crocodile forceps     27. Instruments box     28. Needle box     29. Micro ear instruments ( elevator left & Right, measuring rod, curette,moblizer, aditus seeker) | 1 |
| 11 | **DIGITAL OTOSCOPE** | DIGITAL OTOSCOPE, 3 m USB Cable  Insufflations port for pneumatic otoscopy with insufflators bulb and tube with tip for digital otoscope  Set of reusable ear speculum 2.5 mm, 3 mm, 4 mm & 5mm.  Case of disposable ear speculum of different sizes  Cadmium Rechargeable plug in Handle  Lithium ion Rechargeable Handle with AC charging Module  Rechargeable Desk charger Handle  3.5 V Halogen Lamp  LED light  Hard case  Zoom feature | 2 |
| 12 | **DIAGNOSTIC OTOSCOPE with C- cell battery Handle & Rechargeable Handle** | 3.5 V Halogen lamp  LED replacement Lamp  Insufflations port for pneumatic otoscopy with insufflators bulb and tube with tip  Set of reusable ear speculum 2.5 mm, 3 mm, 4 mm & 5mm.  boxes of disposable ear speculum of different sizes with Dispenser  C- Cell Battery Handle  3.5 V Halogen Lamp  Hard case for otoscope | 6 |
| 13 | **Hydraulic Surgeon Chair (With Back & Arm-Rest)** | **Hydraulic Surgeon Chair (With Back & Arm-Rest)**  Height Adjustable Stool With Height Adjustable Back.  Height Adjustable By Spring Blocking Hydraulic Gas Spring.  Revolving Rigid Seat With Multilayered Best Quality Foam With Guarantee Covered With Good Quality Leather / Leathered.  Levered Back Rest Cushioned With Multilayered Best Quality Foam And Good Quality Leather.  Min Height: 17" Or Better. Max Height: 25" Or Better.  Seat Section Size Diameter 15" Or Better.  Five Prong Base Of Polyamide, Aluminum.  Mobile On Five 50 X 60 Mm Swivel Castors With Lock Ring Pins. | **4** |
| 14 | **CO2 Laser for ENT** | • Microprocessor control  • Novel ,Futuristic design  • Special Line scan function for robotic vocal cord surgery  • Micro scan patterns for laser – assisted stapedial surgery  • Quick Tip Panel for easy and time –saving parameter selection  • Easy-moving beam delivery system with excellent beam characteristics  • Five Program Storage Locations for saving user-defined parameter sets  • safe locking of the articurated (mirror joint)arm in two different positions  • Reliable Beam Guidance with minimal spot sizes and high power densities  • Possibility to select and turn scan patterns directly via the Micro Point micromanipulator  • Micromanipulator Micro point 2 with minimal spot size of 0.11 mm and highest power  densities  • Comprehensive range of accessories for numerous medical fields (ENT,gynecology ,  dermatology etc)  • Versilate , user oriented operating modes such as ultra -short single pluses,superpluse  mode and cycle mode.  • Integrated ,programmable "soft scan plus R" scanner for multi- disciplinary use in  Conjunction with different hand pieces and micromanipulators  **Technical Data MCO 25 Plus**  • **Type Of Laser** 25Plus  Wavelength 10.6um infrared Laser Power(applied 2-25 W for Tissue)  Co2 Laser Tube Sealed Off  DC-Excited  • **Operating Modes:**  Continous-Wave (CW)  2-25 W  superpluse 0.3ms:11 W,Average,max, Power  singlepluse 5ms-10s Output power:10-25 W  pluse train minimum Pluse Length ::5ms average  output Power:<0.1-25 W  Cyclically repeated Pluses  Cycle Length :-permanent -10ms-10s  • **Plus Laser Light** Diode laser continously adjustable 635nm,<5mw  light –red  • **Laser Beam**  **Delivery**  Articulated spring arm with 7 joints/mirrors,  arm length =1,300 mm,  handpeice exchangeable  • **Focus Diameter** 0.15 mm with a Focal distance of 50 mm (spot size)  0.20 mm with the standard focal distance of 127 mm  0.30 mm with a focal distance of 200 mm  • **Operator/Control**  **Panel**  Blue mode LCD (Liquid crystal display)  with illuminated buttons featuring symbols ,  keypad sealed , either integrated scanner functions  • **Program Memory** 5 freely assignable memory locations (can be used for scanner as well)  • Cooling Internal Power Requirement 230 V /4 V - 50/60 HZ  • **Protection Class** I  Type (Of Applied part) B  Laser Class 4  • **Dimensions** 290x450x1,950 mm  (Height With articulated arm folded down : 1,180 mm  • **Weight** 57 kg  **Laser Unit**  1 77-025-01-21  CO² Laser MCO25 Plus with ENT Module1  **Consisting of:**  76-402-00-04  Micromanipulator Micro Point 2R (+Microsw)1  76-100-15-04Focusing Handpiece 200mm1  76-100-25-04Back Stop for FocusingHandpiece 200 mm1  79-100-57-04Laser Protection Googles 6  CO² Laser  **Manual & Standard Accessories are included**  Accessories:  Sterilization system complete | **1** |
| 15 | **CRYOSET FOR ENT** | **CRYOSET FOR ENT**  CRYOGEN CO2 or N2O  Pressure Signal yes  Vessel 20 lb cylinder  Pressure gauge,psi 0-1,000  Max. volume 7kg  POWER CONSUMPTION  VAC 230  CONSOLE Console with case and cast  Power,w 30 v  FORMAT Stand- alone, Portable console  OPERATING TEMP, A C -89 (-128.2) N2O  OPERATING TIME, min 150 continuous  OPERATING PRESSURE,psi 600-800  DEFROSTING Active  Kind Back pressure  SCVENGEABLE PROBES Yes  KINDS OF TIPS Otolaryngology, Dermatology, N2O spray probes; all probes should be  Stainless steel coated with 24 k gold  Cryometer Range, A 0C 0 to -100 (-32 to -148)  Shaft Insulation yes  Probe tip cryometer yes  Number Supported 80 standard shapes  Sterilization Autoclave, Et0, 180  USES General Purposes  OTHER ATTRIBUTES Flow meter; electronic freee period timer; automatic freezing and defrost;  Indicator pressure; regulator pressure; mobile console; spray tip; Freezing needle(-0.8mm); purge filter  ACCESSORIES FOR CRYOPROBE  Laryngological probes  Cryo adenotomy - Pre  Cryo adenotomy – after  Large adenotomy  Nasal and throat  Cryo tonsillectomy  Nasal  Multipurpose nasal needle  Bronchoscopy probes  Contact proble 10mm & 5mm  SPRAY TYPE PROBLE  Dermatological spray type probe  SHOULD BE SUPPLIED WITH THE FOLLOWING ACCESSORIES  Standard Hose, 1.6mm typical connector for cryo probes  Sterile plastic cover for probe and pipe  Silicone plug  **SHOULD BE CE/FDA CERTIFIED** | **1** |
| 16 | **OF MASTOID DRILL (PNEUMATIC) WITH ACCESSORIES** | **MASTOID DRILL (PNEUMATIC) WITH ACCESSORIES**  Pneumatic modular motor, 100W  Lubricating oil is supplied with the hand piece  3m air hose, MA7 schraeder connection  Conversion hose MA7 to ¼” NPT  Conversion hose MA7 to AO  Jacobs drill attachment  Wire driver attachment with cylinder  2. burr round 0,6 mm/70/2,35 mm 4  3. burr round 0,7 mm/70/2,35 mm 4  4. burr round 0,8 mm/70/2,35 mm 4  5. burr round 1,0 mm/70/2,35 mm 4  6. burr round 1,4 mm/70/2,35 mm 4  7. burr round 1,8 mm/70/2,35 mm 4  8. Burr round 2,3 mm/70/2,35 mm 4 | **1** |
| 17 | **HARMONIC SCALPEL** | |  |  |  |  | | --- | --- | --- | --- | | **GENERAL SPECIFICATIONS:** | | |  | | Touch Screen Display | | |  | | Standard Ethernet & Flash drive ports for upload & download data | | | | | Frequency- 27KHz to 500 KHz | | |  | | Voltage - Upto 900 Volts | | |  | | Current - Upto 3 Amps | | |  | | Power - Upto 200 Watts | | |  | | **TECHNICAL SPECIFICATIONS:** | | |  | |  |  |  |  | | Degree of Protect in Against Electric Shock | | Type CF applied part consisting of the Ultrasonic or Advance Bipolar instruments |  | | Class of Protect in Against Electric Shock | | Class 1 |  | | Main Input | | 100 - 240 V ~, 50/60 Hz, 500 VA |  | | Output |  | **Sealing Output:** |  | |  | Thermal Spread less than 1mm |  | |  | Bipolar, no neutral electrode required |  | |  | 100 VAC RMS maximum |  | |  | 135 watts maximum |  | |  | 300 - 490 kHz (330 kHz unless otherwise marked in instrument IFU) |  | |  | **HS Output:** |  | |  | 420 VAC RMS maximum |  | |  | 0 - 100 watts continuous (unless marked with a duty cycle in the instrument IFU) |  | |  | 101 - 200 watts 15s On / 15s Off |  | |  | 55.5 kHz |  | | **Ambient Operating Conditions** | | Temperature: 59 °F to 80.6 °F, 15 °C to 27 °C |  | | Humidity: 30% - 75% non-condensing |  | | Atmospheric Pressure Range: 700 hPa - 1060 hPa |  | | **Weight** |  | Generator: 13 lbs (5.9 kg) |  | |  | Cart: 37 lbs (16.8 kg) |  | |  | Footswitch: 8 lbs (3.6 kg) |  | | **Overall Dimensions** | | Generator: 13.76” (35.0 cm) x 13.98” (35.5 cm) x 5.34” (13.6 cm) |  | | Cart: 18.88” (48.0 cm) x 22.11” (56.2 cm) x 37.53” (95.3 cm) |  | | Footswitch: 13.45” (34.2 cm) x 7.50” (19.0 cm) x 4+B3+B33:E52 |  | | **1** |
| 18 | **ENT OT CELING LIGHT DOUBLE DOME** | **ENT OT CELING LIGHT DOUBLE DOME**   * The domes positioning system was conceived in order to ensure great mobility through effortless and accurate moves. * Each Spring arm allows the following five movements. * Free rotation of the main arm on the ceiling plane 360O; * Rotation of the dome supporting arm at the central joint, 360O; which also enables elevation of the same by 60O; * Rotation of the dome around its supporting arm, 360O; and flexion / extension of the dome against its own supporting 330O * Self-balanced system; * No counterweight.   **TECHICAL INFORMATION**  **Satellite -1**  Intensity regulation (measured at 1 meter) 60000-1,60,000 LUX  Color temperature 3500+/-5000 K  Field diameter 120-350mm  Satellite diameter 700 mm  Field deep >1400mm  Illumination ratio <3,6mW/m2\*LUX  CRI Control 95 ( Ra )  Shadow free rate in % 98  Satellite adjustments ( each side ) +/-180°  Increasing of temp in the surgery field <2°  Increasing of temp in Patient head. <1°  Voltage at satellite 30 V  Power consumption 160 W  Power supply alternative 220-110V  50-60 Hz  **Satellite -2**  Intensity regulation (measured at 1 meter) 60000-90,000 LUX  Color temperature 4500+/-5000 K  Field diameter 150-300mm  Satellite diameter 620 mm  Field deep >700mm  Illumination ratio <3,6mW/m2\*LUX  CRI Control 96 ( Ra )  Shadow free rate in % 94  Satellite adjustments ( each side ) +/-180°  Increasing of temp in the surgery field <8°  Increasing of temp in Patient head. <2°  Voltage at satellite 24 V  Power consumption 400 W  Power supply alternative 220-110V (50-60 Hz) | **1** |
| 19 | **ENT Treatment Workstation** | **ENT Treatment Workstation**   * Convex front panels * 2 large pull-out trays with stainless steel dividers for instruments (beneath upper worktop), illuminated * 2 drawers with perspex dividers * 2 drawers with openings for used instruments and waste disposal * Mobile on wheels, fixed in position by lowering feet * Colour of front panels: metallic silver * Timber chassis and worktop with Thermopal worktop * 6 handpiece holders equipped with infrared sensors * Illuminated control display of high resolution * Tidy hose & cable storage * Diagnostic PC incorporated in design * Video to distract children during diagnostic procedures * Controls for room lighting and undercupboard lighting with dimmer function * Fault diagnosis by means of LED indication on each handpiece holder * ‘Service due’ warning * LED ambience illumination   Sliding handpiece holder to gain access to compartment for table top devices behind handpiece holder assembly. Two shelves in compartment for table-top devices | **1** |
|  |  | **Suction system without secretion receptacle**   * **Supplied with suction handpiece and tubing**   **Maintenance-free**  **Capacity: 70 ltr/min., Vacuum: -0.80 bar: Qty 01**   |  | | --- | | Secretion receptacle with overflow valve for suction system. Made from polysulfone.: Qty 01 |   Compressed air system complete with spray handpiece with tubing and 3 spray bottles. Qty 01   * 1 powder and 2 liquid atomizers with holder for atomizers (nozzles removable) * Adjustable pressure by means of regulator valve * Automatically activated via sensor when handpiece is removed from its holder * Low maintenance * Capacity: 25ltr/min   Max. pressure: 2.5bar  MIR-O-TEMP 1200 A hot air mirror heater   * Automatic off switch   Heats mirrors in approx 3 seconds: Qty 01  Double dispenser for cotton-wool roll & tongue sheet roll: Qty 01  Fibre optic light source LED version for telescopes with STORZ cable  Activated via sensor in handpiece holder: Qty 01  ENTERVIEW III cordless LED examination headlight: Qty 01  Integrated battery charger and headlight rest with coil micro-USB charge cord: Qty 01  Perspex holder with 4 glass tubes for disinfection of rigid endoscopes: Qty 01  Heated telescope holder for rigid telescope, 4mm  Made of Delrin autoclavable material  : Qty 01  Heated telescope holder for rigid telescope, 11mm: Qty 01  Enterscope telescope 90° angle of view, 8 mm diameter, 175 mm working length, autoclavable: 01  Enterscope telescope 0° angle of view, 3 mm diameter, 55 mm working length, autoclavable: 01  Enterscope telescope 0° angle of view, 4 mm diameter, 175 mm working length, autoclavable  Enterscope telescope 30° angle of view, 4 mm diameter, 175 mm working length, autoclavable  Enterscope telescope 70° angle of view, 4 mm diameter, 175 mm working length, autoclavable Enterscope telescope 0° angle of view, 2.7 mm diameter, 105 mm working length, autoclavable Video Rhino Laryngoscope RS1 (chip-on-the-tip technology)  Automatically activates via handpiece in : Qty 01 Each  Integrated holder for flexible laryngo pharyngo scope  Autoclavable Delrin material   |  | | --- | | Mounting for scope holder on the unit | | Operation Microscope with 5-step magnification changer.  Mounted on unit  Switched on/off from control panel with dimmer   * Column * Objective f = 250 mm * 2 eye pieces * 3 step magnification changer * LED light source |   Operation Microsciope beam splitter with integral endoscope adaptor  Entermed High Definition Endoscopy Camera   * Connection: USB 3.0 * Resolution: 1280 x 720p (60fps) * Image sensor: 1 / 2.9 ” Sony CCD * Imaging software (without patient database)   Foot switch with three switches for saving images and videos to disk and white balance  HD C-mount endoscope f=28mm, waterproof  23.8” EIZO full HD monitor with all connections and adapted cable  Swivel arm mounted on microscope column for monitor  HF generator (coagulator) 1E, 100Watt, 460kHz, bipolar and monopolar with neutral electrode monitoring system complete with:   * 2-button electrode handle with 3m cable * 3 m bipolar cable * Double foot-switch * 3m neutral cable for patient plate * Reusable patient plate  |  | | --- | | User manual in English  Knife electrode straight 100mm  Wire loop electrode 100mm, 5mm  Needle Electrode straight 100 mm  Ball Electrode 100 mm, 4 mm  Ball Electrode 100 mm, 6 mm  Bipolar forceps, 180mm, 1mm tip, non-stick  Fully Automatic Patient Examination chair   * Electric height and backrest/leg rest adjustment * Backrest fitted with hinged headrest * Folding footrest * Swivel armrests included. Movements are controlled by means of multi-functional foot control * Base dimensions (length x depth): 56 x 71 cms * Seat dimensions (length x depth): 51 x 54 cms * Maximum seat height (without headrest): 90cms * Minimum seat height (without headrest): 61 cms * Overall length (without headrest and footrest): 147 cms * Rotation: 350º * Max weight lifting: 180 kgs * Weight (without packaging): 100 kgs * Position in horizontal position: -20º * Position in vertical position: +5º * Standard colours black 201, pigeon blue 134 or pearl grey 129   REGULAR doctor's stool with adjustable backrest and height   * Gas-spring height adjustable * Min. seat height: 46 cm * Max. seat height: 58 cm * 360° rotatable * Seat Ø 36 cm * Adjustable backrest (height and depth) * Cross-type base chrome plated * Braked safety castors * Standard colours black 201, pigeon blue 134 or pearl grey 129 | |  |
| 20 | **Operation Microscope for ENT with Video Attachment for Teaching & Recording** | Technical Specifications:   * Magnification   Manual Galilean changer, 1:6 ratio in 5 steps   * Focusing system (Varioskop)   Internal, manual, continuously adjustable   * Working range:   225 – 600mm   * Main binocular tube   Straight binocular tube f=170mm  10x wide field eyepieces   * Stand   S 7 floor stand   * Circuit breaker   Automatic   * Light source   Halogen/ xenon illumination  Main and backup illumination  100W halogen lamp via light guide, backup lamp in automatic, fast-action lamp changer  Along with:   1. Beam splitter 2. 3CCD HD camera system 3. HD video recorder 4. Assistant attachment with straight binocular tube | **1** |
| 21 | **Operating / Examination Microscope for ENT OPD** | * Five Step magnification changer. * Manual focusing through counterbalanced arm * 10x Wide field eyepieces with rubber caps for supporting   spectacle wearers with dioptric adjustment.   * F=250mm objective * 12V – 100W coaxial, halogen, cold light illumination   with fast action lamp changer.   * Apochromatic magnification changer: 0.4x, 0.6x, 1x, 1.6x, 2.5x * Magnification 2.7x to 17x. * Straight binocular tube. * 120o inclined coupling for ENT * S100 floor stand * Tri shaped grip for the microscope   **WITH**   * F=300mm Objective lens: 01 * F=400mm Objective lens: 01 | **2** |
| 22 | **OT TABLE** | **A) ELCTRO HYDRAULIC OT TABLE**  **Characteristics:**  . Table top board divided in 5 sections.  . Electro mechanical integrated system, assures a perfect functioning of the table.  . Movement elevation and decrease by electro hydraulic system.  . Motorized sliding table top system in 350mm (each side 175mm) movements by electrical motors made full x-ray transparent the table for C-arm’s.  . Head rest, detachable and adjustable by gas piston.  . Base with protected transport wheels, with motorized central brake, scratch free.  . Electrically conductive with easy connection to the system of supply of the operating room.  . Structure of the base, and column in stainless steel, easy to clean and sterilize.  . Side rails to carry accessories in stainless steel.  . Ergonomic design makes the table safe.  . Mattress of the foam 80mm of the thickness lined in conductive, water proof rubber and radio transparent for every section, of an alone piece without seams. Easy detachable for cleaning.  . Surface of the table board in radio transparent material allow work’s with C-arm’s.  . Container for x-ray cassettes or longitudinal movable table top allows doing radiological examinations in the whole length of the board, without need to move the patient. All the accessories can be fixed and are detachable by quick release clamps.  . Lumbar adjustable kidney bridge, manual height regulation until 120mm by crank, facilitates the renal operations or bladder.  . Motorized lateral tilt up to 20° each side.  . Legs rest section movable in height and divisible, free movements, detachable.  . Rechargeable internal battery back-up for movements without table connection or using power.  . Water proof remote controller keyboard.  . Reset function to start position.  . Controlled movements up/down, lateral tilt, flexion and back rest, trend and reverse trend, sliding table top and central break.  . Optional: operating control on the column base, as safe secondary controller.  **Specifications**  . **Table top dimension length x width** 1960x500mm  **Height adjustment** 690/1100mm  **Lateral tilt on each side** -20°/20°  **Trend and reverse trendelemburg** -30°/30° **adjustment.**  **Head rest detachable and adjustable** -90°/+60°  **Back section adjustment** -45°/+90°  **Detachable legs section supports**  0°/180°  **With open angle adjustment.**  **Legs support can be elevated** +15°/-90°  **And lowered.**  **Motorized slighting table top** 350mm  **System in 350mm each side 175mm.**  **Adjustable height on kidney breach.** 0/120mm  **Maximum patient weight**  250kg  **Power supply alternative** 220v/50Hz 100v/60Hz  **Included accessories:**  **Anesthesia screen, in stainless steel** 1 unit  **Head rest padded regulable in height**  1 unit  **And detachable.**  **Body size supports padded, radial clamps.** 1 set  **Shoulder supports padded, with radial clamps.** 1 set  **Legs and knees Goepeln crutches, T type, contoured** 1 set  **And padded. Mounted on ball joints for flexible**  **Positioning with radial clamps.**  **Body belt**  1 unit  **Set mattress.**  1 set  **X-ray cassettes tray** optional  **IV Stand, in stainless steel**. optional  **Gynecological/urological basin with drainage**. optional  **Operated by battery.** standard  **OR**  **(B) MANUAL HYDRAULIC OT TABLE ,**  **Characteristics:**  . Table top board of radio transparent material divided in 5 sections.  . Elevation and lowering movements made by hydraulic pistons system over pedal.  . Movements by gas pistons and hand cranks.  . Detachable head set can be adjusted with a gas piston .  . Base with transparent wheels of great diameter of 125mm with central brake, scratch free.  . Structure of the base and column recover in stainless steel AISI 304 easy to clean and sterilize.  . AISI 304 stainless steel side rails to carry accessories, easy to clean and sterilizing.  . Ergonomic design makes the table safe.  . Mattress of the foam ,80mm of thickness lined in conductive, water proof rubber and raditransparent, for every section, of an along piece without seams . Easy detachable for cleaning.  . Surface of the table board made of radio transparent material, tunnel with guides for X-ray cassettes.  . Optional: container for X-rays cassettes allows to realize radiological examinations in the whole length of the board, without needing to move the patient.  . All the accessories can be fixed and detached.  . Lumbar adjustable bridge with manual high regulation by crank of 100mm which eases renal and bladder operations.  . Movable and divided legs support, free movements in high and opening angle.  **TABLE TOP DIMENSIONS (length x width)** 2050x500mm  **HEIGHT ADJUSTMENTS** 690/890mm  **LATERAL TILT ON EACH SIDE** 20° / -20°  **BACK SECTION ADJUSTMENTS** + 85° / -15°  **TREND AND REVERSE TRENDLEMBURG ADJUSTMENTS** -11°/+25°  **LEGS SUPPORT CAN BE ELEVATED AND LOWERED** 0° / -90°  **Detachable legs section supports with** 0° / - 120°  **open angle adjustments**  **Headrest detachable and adjustable** + 60/- 65°  **Adjustable height on kidney breach** 0-100mm  **Maximum Patient weight** 220kg | **2** |
| 23 | **FLOOR SCRUBBING MACHINE.** | **FLOOR SCRUBBING MACHINE.**  Should d be FDA approved  Floor scrubbing and polishing machine. Single brush with manual control unit. Hand control for operation  Three speeds for scrubbing and polishing (150-300 rpm) Plastictank for detergent  Brush size: 500mm  Two spare brushes each for scrubbing and polishing. 220 V50 Hz.  Cablelength minimum 100 ft. with heavy duty plug | **1** |
| 24 | **PORTABLE SUCTION MACHINE** | **PORTABLE SUCTION MACHINE**  Heavy duty Mobile Suction Unit with twin jars of capacity upto 4or5 litre each, autoclavable.  Reciprocating type  Aspiration rate upto 40-45 litres/minutes at 650-900mm.Hg.Vacuum continuously adjustable  10X bacterial filter  Explosion proof  footswitch  Complete aspiration set with tubing Over flow safety Device  220V/50Hz. I Phase  Trolley with lockable wheels  **Should d be FDA approved** | **4** |
| 25 | **Motorized electric bed** | **Motorized electric bed**  **Should have 7 positions (Back Raise, Knee Raise, Hi-Low Adjustment, Auto Contour, Trendelenburg, Reverse Trendelenburg and Cardiac Chair Position) with X-ray radiolucent backrest**.  **Movements:**   * **Smart Raise Function** for Back Raise (Reduce back Pressure-can reduce patient pressure and shearing on the patient with its retraction and extension motion) * Back Raise 0-70 degree. * Knee raise 0-25 degree * Hi-low adjustment from 350mm to 680mm (Mattress base) * Trendelenburg/Reverse Trendelenburg position 0 +12,   (Can be used while bed is in any position by pressing one button)   * Auto contour Position * **One button cardiac chair position**   **Controls:**  Should have Patient and Nurse Control to perform the various bed positions.   * **P**atient controller,   (Auto contour, Back raise, Knee Raise and hi- low adjustment) with locking function).   * Separate Nurse control panel (can be stored under foot board) will control and indications for Start Button, Electric CPR, Battery Indicator, **Low Height Indicator**, Lock Function for Fixable Patient Controller, Auto Contour Position, Back Raise, Knee Raise, Hi-Lo Adjustment, Cardiac Chair Position and Trendelenburg/Reverse Trendelenburg.   **CPR Function:**   * **Should have both electric CPR function and Manual CPR function.**   **Battery:**   * Should have Battery with low battery indicator.   **Side Rails:**   * Should have **Full Length side rail** meeting safety standard of IEC 60601-2-52. (To reduce the risk of patient fall down from Bed) * Should Have **Anti-tampering Lock feature** (Prevents patient from falling over when patient is attempting to lower the side rail by himself) * Should have Flexi Grip (grip on side rail to help patient to stand up more easier) * Should have 290 mm effective side rail height with **zero sliding gap**. * Should be slide down with **Gas Spring shock absorber** instead of out wards open type for safety.   **Mattress base.**   * **Made of steel** * **Steel pressed mattress base.** * Seamless smooth surface for easy and quick cleaning. * **Hinge parts should be made of steel**   **LOW Bed Height:**   * **Should have lowest bed height to 35 cm**. (Allows patient to place his heels firmly on the floor) * **Should have light indicator**. (To indicate its lowest height position)   **Angle Indicator:**   * Should have angle indicator for back section at both sides. (The 30 degree marked out to assist in ventilator-associated Pneumonia)   **Head/Foot board:**   * **Should have Auto Locking Stopper.** * Should be Detachable in a single operation.   **Roller Bumpers:**   * Roller bumpers at each corner of bed.   **IV Pole:**   * Should have four adjustable hocks. * Should have height adjustment. * Should have facility to place the IV pole on each side of bed for urine and drainage bags etc.   **Bed Dimensions should be:**   * Bed Length 2200mm or more without extension. * Bed Width1056 mm or more * Total height 735 mm to 1065 mm or more * Mattress Base Height 350 mm to 680 mm or more   **Mattress:**   * Size: W: 910mm L: 2000mm TH: 125mm * Should be Double - **Layer system (Slow Rebound surface and Quick Rebound Surface)** * Should have **Reversible Mattress, one side is soft and the other should be hard.** * Should identify both hard and soft surface with **Two different colors**   \* Mattress Cover should be:  \* MRSA anti-bacterial treated.  \* Fire retardant.  \* Water proof surface.  \* Material of cover: Polyester with polyurethane film laminated  \* Mattress must be manufactured by company manufacturing beds.  **Safe working load 245 KG or more**.  **All products and accessories should be from same manufacture.**  **Country of Manufacturer: USA/Western EU/Japan, however country of origin of product may vary and could be from anywhere in the world.** | **10** |

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| **26** | **MICROEAR SURGERY HAND INSTRUMENTS** | **Qty** |
| i. | WULLSTEIN forceps, serrated , length 15 cm | 2 |
| ii. | Needle Holder tungsten carbide inserts, length 13 cm | 2 |
| iii. | WULLSTEIN ear forceps ,extra delicate ,oval cupped jaws, 0.9mm , working length 8 cm | 2 |
| iv. | HARTMANN ear forceps ,round cupped jaws, diameter 2 mm , working length 8cm | 2 |
| v. | HARTMANN ear forceps ,serrated , working length 8cm | 2 |
| vi. | BELLUCI scissors ,delicate standard model, blade length 8 mm , working length 8 cm | 2 |
| vii. | Suction Handle with cut off hole ,Luer cone, length 10 cm, for use with suction tubes | 2 |
| viii. | PLESTER suction tube with grip plate, cut - off hole and stylet, Luer,  5 Fr, Length 20 cm | 2 |
| ix. | PLESTER suction tube with grip plate, cut - off hole and stylet, Luer ,7Fr, Length 20 cm | 2 |
| x. | PLESTER suction tube with grip plate, cut - off hole and stylet, Luer ,9 Fr, Length 20 cm | 2 |
| xi. | Suction tube , angular, Luer - lock, outer diameter 0.7mm, working length  6 cm | 2 |
| xii. | Suction tube , angular, Luer - lock , outer diameter 1mm, working length 6 cm | 2 |
| xiii. | Suction tube , angular, Luer - lock , outer diameter 1.3mm, working length 6 cm | 2 |
| xiv. | Suction tube, angular, Luer - lock, outer diameter 1.5mm, working length 6 cm | 2 |

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|  | Suction tube , angular, Luer - lock , outer diameter 2mm, working length 6 cm | 2 |
|  | HOUSE -DIETER Malleus Nipper, upbiting, working length8 cm | 2 |
|  | PLESTER Sickle Knife , double - edged, standard model, slightly curved , length 16 cm | 2 |
|  | FISCH Ear forceps ,extra delicate, pointed, serrated, 1 x4.5 mm, working length 8 cm | 2 |
|  | Seeker, ball end angled 45 degree, 15.5 cm, size 3. | 2 |
|  | BUCK Ear curette, sharp , size 00,1ength 14.5cm | 2 |
|  | BUCK Ear curette , sharp , size 0,1ength 14.5cm | 2 |
|  | HOUSE Curette ,large ,spoon size 2 x3.2mmand 1.6x 2.6mm, length 15 cm | 2 |
|  | HOUSE Curette ,small ,spoon size lxl.6mm and 1.3x 2mm, length 15 cm | 2 |
|  | PLESTER Footplate Hook,0.6mm, length 16 cm | 2 |
|  | FISCH Manual perforator , diameter 0.3mm length-16 cm | 2 |
|  | Footplate Hook,0.2mm, length 16 cm | 2 |
|  | Round Knife 45degree, D-2mm, L-16cm | 2 |
|  | PLESTER Knife , round, vertical,16 cm, standard size 3.5mm x 2.5 mm | 2 |
|  | Pick , 90 degree , size 1 mm , Length16 cm | 2 |
|  | Pick , 90 degree , size 0.8mm , Lengthl6 cm | 2 |
|  | Pick , 90 degree , size 0.6 mm , Lengthl6 cm | 2 |
|  | Pick, 90 degree , size 0.4mm , Lengthl6 cm | 2 |
| xxxiii | ValliTungsten Carbide shaft burrs, stainless, size 006-070, length 7 cm, set of 15 | 2 |
| xxxiv. | Diamond straight burrs, stainless, size 006-070, length 7 cm, set of 15 | 2 |
| xxxv. | Standard straight shaft burrs ,oblong,70 mm length, O.D: 6 mm | 2 |
| Xxxvi | Brush, for cleaning a traumatic jaws, sterilisable, package of 5 | 2 |

**27. GENERAL SET FOR ENT OT**

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| **S.No** | **GENERAL SET FOR ENT OT 3**  Complete Set, For all instruments made of stainless steel. All dye made with hidden joints and leak proof. Manufacturer’s mark must be indicated on all instruments | **Qty**  **3 sets** |
| **1** | BP knife handle small & medium |  |
| **2** | 2, sponge holding forceps 2 |  |
| **3** | towel clamps 5 |  |
| **4** | Allices forceps, small medium & large 2 each |  |
| **5** | lengenbeck Retractor, small , medium & large 2 each |  |
| **6** | bibcock small & medium |  |
| **78** | catspaw retractor |  |
| **9** | skin hooks |  |
| **10** | needle holders small medium & large 2 each |  |
| **11** | straight artery forceps small medium & large 5 each |  |
| **12** | curved artery forceps small medium & large 5 each |  |
| **13** | fine mosquito forceps 5 each |  |
| **14** | Right angled forcep 2 |  |
| **15** | bulldog forcep |  |
| **16** | adison forceps small medium & large 2 each |  |
| **17** | scissors cutting plain small & medium 3 each |  |
| **18** | scissors dissecting, medzenbam. Curved , small medium & large 3 each |  |
| **19** | suction tips size 10, 12 & 14 |  |
| **20** | yanker suction tip 2 |  |
| **21** | Jolls retractor for thyroid |  |
| **22** | kidney trays small & medium 3 each |  |
| **23** | suction tube |  |
| **24** | Mayo Scissors Curved |  |
| **25** | Kocher Artery Forceps Straight |  |
| **26** | Toothed dissecting Forceps 7” |  |
| **27** | Non toothed dissecting Forceps 7. |  |
| **28** | Instruments Tray |  |
| **29** | Punch biopsy Forcep |  |

**28. Fine cutting set**( 3 Sets)

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| S# | ITEMS | QTY  3 sets |
| 1. | Cvd Artery forceps Mosquito | 5 |
| 2 | Str Artery Forceps Mosquito | 5 |
| 3 | Allis Forceps | 5 |
| 4 | Needle holder 5” | 5 |
| 5 | Needle Holder 6” | 5 |
| 6 | Plain forceps Adson | 5 |
| 7 | Toothed forceps Adson | 5 |
| 8 | Toothed forceps Dressing | 5 |
| 9 | Sponge Holding forceps | 5 |
| 10 | Towel Clips | 5 |
| 11 | Catspaw | 5 |
| 12 | Skin Hook | 5 |
| 13 | Scissors Fine Cvd | 5 |
| 14 | Scissors Fine 6” | 5 |
| 15 | Instruments Hanger | 5 |
| 16. | Instruments Tray | 5 |
| 17. | Bowl SS 4” | 5 |

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| **29. Rigid Bronchoscope Adult** | | | |
| **S.No** | **Description** |  | **Qty** |
| 1 | Universal Bronchoscope, Size 8.5, outer diameter 11.2 mm, inner diameter 10.5 mm, length 43 cm, with Fiber Optic |  | 1 |
|  | Light Carrier |  |  |
| 2 | Universal Bronchoscope, size 6.5, outer diameter 9.2 mm, inner diameter 8.5 mm, length 43 cm, with Fiber Optic |  | 1 |
|  | Light Carrier |  |  |
| 3 | Glass Window Plug |  | 1 |
| 4 | Rubber Telescope Guide |  | 1 |
| 5 | FLUVOG Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable |  | 1 |
| 6 | Injection Cannula, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm, for use with |  | 1 |
|  | Bronchoscope Models |  |  |
| 7 | Adjustable Magnifier, swing-away type, with ring adaption, autoclavable |  | 1 |
| 8 | Adaptor, for respirator |  | 1 |
| 9 | Straight Forward Tele- scope 0°, diameter 5.5 mm, length 50 cm, autoclavable. Fiber optic light transmission |  | 1 |
|  | incorporated. Color code: green |  |  |
| 10 | Optical Forceps, alligator, for hard foreign bodies, large jaws, with spring-action handle for use with telescopes |  | 2 |
| 11 | Optical Forceps, for peanuts and soft foreign bodies, with spring-action handle, for use with telescopes |  | 2 |
| 12 | Optical Forceps, universal, for biopsy, for removal of foreign bodies and denatured tissue for use with telescopes |  | 2 |
| 13 | Forceps, alligator, for hard foreign bodies, double-action jaws, sheath diameter 2.5 mm, working length 50 cm |  | 2 |
| 14 | Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws, sheath diameter 2.5 mm, working |  | 2 |
|  | length 50 cm |  |  |
| 15 | Forceps, for peanuts and soft foreign bodies, double-action jaws, jaw width 7 mm, sheath diameter 2.5 mm, working |  | 2 |
|  | length 50 cm |  |  |
| 16 | Rigid Suction Tube, length: 50 cm |  | 2 |
| 17 | Cotton Carrier, working length 50 cm |  | 1 |
| 18 | Sponge Holder, with spring handle, working length 50 cm |  | 1 |
| 19 | Foreign Body Basket, with ring handle, working length 50 cm |  | 1 |
| 20 | LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz |  | 1 |
|  | including: |  |  |
|  | Mains cord |  |  |
| 21 | Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm |  | 1 |
| 22 | LED, endoscopic video unit for use with all one-chip camera heads and video endoscopes, incl. LED-light source |  |  |
|  | similar to Xenon technology, with integrated digital Image Processing Module, 15" LCD monitor with |  |  |
|  | LED backlight, USB/SD memory module, color systems PAL/NTSC, |  |  |
|  | power supply | 100 - 240 VAC, 50/60 Hz |  |
|  | Consisting of: |  |  |
|  | USB Silicone Keyboard with Touchpad, with US character set |  |  |
|  | USB Stick 8GB |  |  |
|  | Mains Cord |  |  |
| 23 | Camera Head |  | 1 |
| 24 | Fiber optic cable |  | 1 |
| 25 | Local Trolley |  | 1 |

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| **30. Rigid Bronchoscope Peads** | | |
| **S.No** | **Description** | **Qty** |
| 1 | DOESEL-HUZLY Bronchoscope, length 30 cm, size 6 | 1 |
| 2 | DOESEL-HUZLY Bronchoscope, size 4.5, outer diameter 7.3 mm, inner diameter 6.6 mm, length 30 cm | 1 |
| 3 | DOESEL-HUZLY Bronchoscope, size 3.5, outer diameter 5.7 mm, inner diameter 5 mm, length 30 cm | 1 |
| 4 | Prismatic Light Deflector autoclavable, with connection to fiber optic light cable | 2 |
| 5 | Glass Window Plug | 1 |
| 6 | Rubber Telescope Guide for use with telescopes or optical for- ceps | 1 |
| 7 | FLUVOG Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, moveable. | 1 |
| 8 | Adjustable Magnifier, swing-away type, with ring adaption, autoclavable | 1 |
| 9 | Adaptor, for respirator | 1 |
| 10 | Injection Cannula, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm, for use with Bronchoscope Models | 1 |
| 11 | Straight Forward Telescope 0°, diameter 2.9 mm, length 36 cm, autoclavable, fiber optic light transmission incorporated, color code: green | 1 |
| 12 | Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2 x 2 teeth, for use with telescope forced controlled handle for removal of coins and flat foreign bodies | 2 |
| 13 | Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes, for use with telescope forced controlled handle for removal of hard foreign bodies | 2 |
| 14 | Optical Forceps, with spring- action handle for controlled removal of peanuts and soft foreign bodies, for use with Telescope | 2 |
| 15 | Forceps alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm | 2 |
| 16 | Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm | 2 |
| 17 | Rigid Suction Tube, outer diameter 3 mm, working length 35 cm | 2 |
| 18 | Cotton Carrier, working length 35 cm | 1 |
| 19 | Sponge Holder, working length 35 cm | 1 |
| 20 | Foreign Body Basket with ring handle, working length 35 cm | 2 |
| 21 | LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz | 1 |
|  | **including:** |  |
|  | Mains cord |  |
| 22 | Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm | 1 |

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| **31. CMOS Video Rhino Laryngoscope** | | |
| **S.No** | **Description** | **Qty** |
|
| 1 | CMOS Video-Rhino-Laryngoscope with Monitor, | 1 |
| Direction of view: 0° |  |
| Angle of view: 85° |  |
| Deflection: up 140, down 140° |  |
| Working length: 30 cm |  |
| O.D.: 3.7 mm |  |
| **Following accessories are included:** |  |
| CMOS Video-Rhino-Laryngoscope KIT |  |
| Monitor for CMOS Endoscopes |  |
| 2 | IV-Stand for C-MAC monitor, height 120 cm, rollable with five legs and antistatic castors, | 1 |
| crossbar 25 cm x diameter 25 mm for positioning the monitor, with tray, dimensions (w x d x h): |  |
| 30 x 20 x 10 cm use with: Crossbar Crossbar |  |
| 3 | Crossbar, for Stand, 50 cm x diameter 25 mm, for positioning Monitors | 1 |
| 4 | Clamp, standard, for fixation of monitor to round profile with diameter 20 - 43 mm and square profile with diameter 16 - 27 mm, for use with Monitors | 1 |
| 5 | Camera Holder, For storing camera heads, with detachable inlays, compatible with all endoscopic cameras from For usage with equipment carts | 1 |
| 6 | Plastic Container for Sterilization, specially suited for gas and hydrogen peroxide sterilization and storage, | 1 |
| perforated, with lid, for use with flexible video-cysto-, rhino- and bronchoscopes, external dimensions (w x d x h): 550 x 260 x 90 m |  |

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| **32. Direct Laryngoscope** | | |
| **S.No** | **Description** | **Qty** |
| 1 | Tele-Laryngo-Pharyngoscope, with integrated lateral telescope 90°, diameter 5.8 mm, length 20 cm, | 1 |
|  | autoclavable, fiber optic light transmission incorporated, color code: blue |  |
| 2 | Handle, for use with Tele-Laryngoscope | 1 |
| 3 | HAVAS laryngoscope |  |
| 4 | Telescope 4 mm , 18 cm |  |
| 5 | KLEINSASSER Operating Laryngoscope for adults, large, length 17 cm | 1 |
| 6 | KLEINSASSER Operating Laryngoscope, for adults, medium, length 18 cm (for anterior commissure) | 1 |
| 7 | KLEINSASSER Operating Laryngoscope for children, small, length 15 cm |  |
| 8 | KLEINSASSER Operating Laryngoscope for infants, small, length 13 cm | 1 |
| 9 | Clip for proximal illumination | 1 |
| 10 | Fiber Optic Light Carrier, for distal illumination, working length 14 cm, for use with Laryngoscopes and | 1 |
|  | Diverticuloscopes |  |
| 11 | Fiber Optic Light Carrier for distal illumination, working length 7.5 cm, for use with Laryngoscopes | 1 |
| 12 | KLEINSASSER Laryngoscope modified by RUDERT for CO2-LASER surgery, for children, with lateral outer channels for | 1 |
|  | suction tube to remove vapor and/or for fiber optic light carrier, length 15 cm |  |
| 13 | Laryngoscope Holder and Chest Support, GÖTTINGEN model, | 1 |
|  | **Including:** |  |
|  | Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel |  |
|  | Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm |  |
| 14 | KLEINSASSER Forceps, straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm | 2 |
| 15 | KLEINSASSER Forceps, curved upwards, with 2 mm cupped jaws, with cleaning connector, working length 23 cm | 2 |
| 16 | KLEINSASSER Forceps, curved to right, with 2 mm cupped jaws, with cleaning connector, working length 23 cm | 2 |
| 17 | KLEINSASSER Forceps, curved to left, with 2 mm cupped jaws, with cleaning connector, working length 23 cm | 2 |
| 18 | KLEINSASSER Miniature Forceps, straight, with 1 mm cupped jaws, sheath conically reinforced from distal to | 2 |
|  | proximal end, with cleaning connector, working length 23 cm |  |
| 19 | KLEINSASSER Miniature Forceps, curved upwards, with 1 mm cupped jaws, sheath conically reinforced from distal to | 2 |
|  | proximal end, with cleaning connector, working length 23 cm |  |
| 20 | KLEINSASSER Miniature Forceps, curved to right, with 1 mm cupped jaws, sheath conically reinforced from distal to | 2 |
|  | proximal end, with cleaning connector, working length 23 cm |  |
| 21 | KLEINSASSER Miniature Grasping Forceps, straight, serrated, sheath conically reinforced from distal to proximal end, | 2 |
|  | with cleaning connector, working length 23 cm |  |
| 22 | KLEINSASSER Miniature Grasping Forceps, curved to right, serrated, sheath conically reinforced from distal to | 2 |
|  | proximal end, with cleaning connector, working length 23 cm |  |
| 23 | KLEINSASSER Scissors, straight, with cleaning connector, working length 23 cm | 2 |
| 24 | Micro Forceps, straight, with 1 mm cupped jaws, with cleaning connector, working length 20 cm | 2 |
| 25 | Micro Forceps, curved upwards, with 1 mm cupped jaws, with cleaning connector, working length 20 cm | 2 |
| 26 | Spoon Forceps, straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm, with suction | 1 |
|  | channel to remove LASER vapors |  |
| 27 | KLEINSASSER Grasping Forceps, straight, serrated, with cleaning connector, working length 18 cm | 2 |
| 28 | Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning | 2 |
|  | connector, working length 18 cm |  |
| 29 | LINDHOLM Forceps, for atraumatic retraction of true vocal cords and false vocal cords, distal end with blunt curved | 1 |
|  | blades, self-retaining, with ratchet and cleaning connector, working length 24 cm |  |
| 30 | Sickle Knife curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm | 1 |
| 31 | KLEINSASSER Suction Tube, outer diameter 3 mm, working length 23 cm | 2 |
| 32 | KLEINSASSER Suction and Coagulation Cannula, outer diameter 3 mm, working length 26 cm, for use with unipolar | 1 |
|  | High Frequency Cords |  |
| 33 | Unipolar High Frequency Cord, with 5 mm plug, length 300 cm, for use with AUTOCON® II 400 system (111, 115, | 1 |
|  | 122, 125), AUTOCON® II 200, AUTOCON® II 80, AUTOCON® system (50, 200, 350) and Erbe type ICC |  |
| 34 | Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High | 1 |
|  | Frequency Cords |  |
| 35 | Bipolar High Frequency Cord, for AUTOCON®II 400 system (112, 114, 116), Valleylab coagulator, with two 2 mm | 1 |
|  | cable sockets for Bipolar Suction Forceps and Bipolar Forceps length 450 cm |  |
| 36 | LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz | 1 |
|  | **including:** |  |
|  | Mains cord |  |
| 37 | Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm | 1 |
| 38 | Havas Light carrier | 1 |
| 39 | Telescope protective sheath | 1 |
| 40 | kantor berci video larygnscope for adult curved distal tip,Telescope guide tube integrated , |  |
| 41 | Telescope 15 Deg , and 45 deg angeld eye piece. |  |

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| **33. ENT Drill electric** | |  |
| **S.No** | **Description** | **Qty** |
|
| 1 | ECO Set motor control unit with two motor connectors and integrated irrigation pump. Power supply: | 1 |
|  | 100 - 240 VAC, 50/60 Hz |  |
|  | **Consisting of:** |  |
|  | Eco |  |
|  | Power cord |  |
|  | Clip set, sterilizable |  |
|  | Double pedal footswitch |  |
| 2 | High-Performance, for use with ENT/OMFS/NEURO/ECO and Connecting Cable , or for use with ENT/ECO/NEURO and | 1 |
|  | Connecting Cable |  |
| 3 | Connecting Cable, to connect High-Performance ENT/ECO/NEURO | 1 |
| 4 | Drill Handpiece, angled, length 12.5 cm, transmission 1:2 (80,000 rpm), for use with high-performance and straight shaft burrs | 2 |
| 5 | Drill Handpiece, straight, length 11 cm, transmission 1:1 (40,000 rpm), for use with high-performance EC | 1 |
|  | micro motor II and straight shaft burrs |  |
| 6 | Carbide Shaft Burrs, stainless, sizes 006-070, length 7 cm, set of 15 | 2 |
| 7 | Standard Straight Shaft Burr, stainless, sizes 006 - 070, length 7 cm, set of 15 | 2 |
| 8 | Diamond Straight Shaft Burrs, stainless, length 7 cm, sizes 006-070, set of 15 | 2 |
|  | **Cleaning Kit** |  |
| 1 | Oil for Intruments, Bottle of 50ml | 4 |
| 2 | Oil dropper | 4 |
| 3 | Special-lubricant for stopcocks | 2 |
| 4 | Brush for Cleaning sharp jaws. | 2 |
| 5 | Cleaning Brush, for outer sheaths length 50 cm | 1 |
| 6 | Quadro Spray (Locally Supply) | 2 |

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| **34. Rigid Esophagoscope Adult** | | |
| **S.No** | **Description** | **Qty** |
| 1 | ROBERTS-JESBERG Oval Operating Esophagoscope. Length: 50 cm. Size: 12 x 16 | 1 |
| 2 | ROBERTS-JESBERG Esophagoscope, oval, for distal and proximal illumination, length 40 cm, O.D. 12 mm x 16 mm, for | 1 |
|  | use with fiber optic light carrier and/or prismatic light deflector |  |
| 3 | ROBERTS-JESBERG Oval Operating Esophagoscope. Length: 30 cm. Size: 8 x 12 | 1 |
| 4 | Fiber Optic Light Carrier for use with esophagoscopes, length 50 cm | 1 |
| 5 | Fiber Optic Light Carrier for use with esophagoscopes, length 40 cm | 1 |
| 6 | Fiber Optic Light Carrier for use with esophagoscopes, length 30 cm | 1 |
| 7 | Adjustable Magnifier, swing-away type, with ring adaption, autoclavable | 1 |
| 8 | Handle | 1 |
| 9 | Straight Forward Tele- scope 0°, diameter 5. 5 mm, length 53 cm, autoclavable. Fiber optic light transmission incorporated. Color code: green | 1 |
| 10 | Esophagoscope Tube, size 11, outer diameter 12 mm, for use with fiber optic light transmission working length 50 cm | 1 |
| 11 | Tube-insert, with instrument channel and anti-Fog-device, for use with esophagoscope-tube and straight forward telescope | 1 |
| 12 | Window for Esophagoscope | 1 |
| 13 | Rubber insufflation bulb, with detachable tube, with LUER-lock connector, | 1 |
|  | **Including:** |  |
|  | Rubber bulb |  |
|  | Rubber tube |  |
| 14 | Optical Forceps, for peanuts, big and soft foreign bodies, double-action jaws, working length 55 cm | 2 |
| 15 | Optical Forceps, alligator, for hard foreign bodies with large jaws, double-action jaws, working length 55 cm | 2 |
| 16 | Telescope Guide, for use with esophagoscopes, length 50 cm | 1 |
| 17 | Forceps, alligator, for hard foreign bodies, double-action jaws, sheath diameter 2.5 mm working length 55 cm | 2 |
| 18 | Forceps, for peanuts and soft foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 55 cm | 2 |
| 19 | Rigid Suction Tube, outer diameter 4 mm, working length 55 cm | 2 |
| 20 | Cotton Carrier, working length 55 cm. | 2 |
| 21 | Sponge Holder, spring handle, working length 55 cm | 1 |
| 22 | Foreign Body Basket, with ring handle, working length 50 cm | 1 |
| 22 | LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz | 1 |
|  | **including:** |  |
|  | Mains cord |  |
| 23 | Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm | 1 |

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| **35. Rigid Esophagoscope Peads** | | |
| **S.No** | **Description** | **Qty** |
| 1 | Esophagoscope Tube, length 30 cm, size 6 | 1 |
| 2 | Esophagoscope Tube, length 30 cm, size 5 | 1 |
| 3 | Esophagoscope Tube, length 18,5 cm, size 3 | 1 |
| 4 | Prismatic Light Deflector autoclavable, with connection to fiber optic light cable | 1 |
| 5 | Rubber Telescope Guide for use with telescopes or optical for- ceps | 1 |
| 6 | Telescope Bridge for connection with Telescope | 1 |
| 7 | Straight Forward Telescope 0°, diameter 2.9 mm, length 36 cm, autoclavable, fiber optic light transmission | 1 |
|  | incorporated, color code: green |  |
| 8 | Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2 x 2 teeth, for use with telescope 10324 AA, | 2 |
|  | forced controlled handle for removal of coins and flat foreign bodies |  |
| 9 | Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes, for use with telescope , forced | 2 |
|  | controlled handle for removal of hard foreign bodies |  |
| 10 | Optical Forceps, with spring- action handle for controlled removal of peanuts and soft foreign bodies, for | 2 |
|  | use with Telescope |  |
| 11 | Forceps alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm | 2 |
| 12 | Forceps, pointed, serrated,for coins and flat foreign bodies, double-action jaws, sheath diameter 1.5 mm, | 2 |
|  | working length 35 cm |  |
| 13 | Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working | 2 |
|  | length 35 cm |  |
| 14 | Rigid Suction Tube, outer diameter 3 mm, working length 35 cm | 2 |
| 15 | Cotton Carrier, working length 35 cm | 1 |
| 16 | Sponge Holder, working length 35 cm | 1 |
| 17 | Foreign Body Basket with ring handle, working length 35 cm | 2 |
| 18 | LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz | 1 |
|  | **including:** |  |
|  | Mains cord |  |
| 19 | Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm | 1 |

**36. Fess Instruments**

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| **S.No** | **Description** |  | **Qty** |
|  | **Fess Instruments** |  |  |
| 1 | Telescope, diameter 4 mm, length 18 cm, autoclavable, variable direction of view from 15° - 90°, adjustment knob |  | 1 |
|  | for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold |  |  |
| 2 | Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, autoclavable, fiber optic |  | 1 |
|  | light transmission incorporated, color code: green |  |  |
| 3 | Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, autoclavable, fiber optic light |  | 1 |
|  | transmission incorporated, color code: red |  |  |
|  | transmission incorporated, color code: red |  | 1 |
| 4 | Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, autoclavable, Fiber optic light transmission |  | 1 |
|  | incorporated, Color code: yellow |  |  |
| 5 | Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, autoclavable, Fiber optic light |  |  |
|  | transmission incorporated, Color code: black |  | 1 |
| 6 | ENT SCB, motor system with color display, touch screen, two motor outputs, integrated |  |  |
|  | irrigation pump and integrated SCB module, 100 - 240 VAC, 50/60 Hz |  |  |
|  | **Consisting of:** |  | 1 |
|  | ENT with KARL STORZ-SCB |  |  |
|  | Mains Cord |  |  |
|  | Irrigator Rod |  |  |
|  | Two-Pedal Footswitch, two-stage, with proportional function |  | 1 |
|  | Silicone Tubing Set, for  irrigation, sterilizable |  |  |
|  | Clip Set, for use with Tubing Set 20711640 |  |  |
|  | SCB Connecting Cable, length 100 cm |  |  |
|  | Single Use Tubing Set, sterile, package of 3 |  |  |
| 7 | Shaver Handpiece, for use with ECO/ENT/NEURO |  |  |
| 8 | Suction Shaver Blade with integrated irrigation for Handpiece, straight, sterilizable, double serrated cutting edge, |  |  |
|  | rectangular cutting window, diameter 4 mm, length 12 cm, color code: blue-yellow for use with handpieces |  |  |
|  | and pico or optical, |  |  |
| 9 | Suction Shaver Blade with integrated irrigation for Handpiece straight, sterilizable, concave cutting edge, oval |  |  |
|  | cutting window, diameter 4 mm, length 12 cm, color code: blue-green, for use with Handpieces |  | 1 |
| 10 | Suction Shaver Blade with integrated irrigation for Handpiece straight, sterilizable, serrated cutting edge, rectangular |  | 1 |
|  | cutting window, diameter 3 mm, length 12 cm, color code: blue-red for use with Handpieces |  |  |
| 11 | Suction Shaver Blade with integrated irrigation for Handpiece curved 40°, sterilizable, cutting edge serrated |  |  |
|  | backwards, double serrated, rectangular cutting window, diameter 4 mm, length 12 cm, color code: blue-yellow, |  |  |
|  | for use with Handpieces |  |  |
| 12 | High-Performance EC Micro Motor II, for use with ENT/OMFS/NEURO/ECO and Connecting Cable |  | 1 |
|  | or for use with ENT/ECO/NEURO and Connecting Cable |  |  |
| 13 | Connecting Cable, to connect High-Performance EC Micro Motor II to ENT/ECO/NEURO |  |  |
| 14 | INTRA Drill Handpiece, straight, length 11 cm, transmission 1:1 (40,000 rpm), for use with high-performance EC micro |  |  |
|  | motor II and straight shaft burrs |  |  |
| 15 | Shaft Burrs, stainless, sizes 006-070, length 7 cm, set of 15 |  |  |
| 16 | Nasal Forceps, straight, size 1, with cleaning connector, working length 13 cm |  |  |
| 17 | Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm |  |  |
| 18 | Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm |  |  |
| 19 | Nasal Forceps, straight, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning |  | 1 |
|  | connector, working length 13 cm |  |  |
| 20 | Grasping Forceps, jaws curved downwards, fixed jaw curved 90°, movable jaw backward opening 120°, with |  |  |
|  | cleaning connector, working length 10 cm |  |  |
| 21 | Grasping Forceps, jaws curved to right, fixed jaw curved 90°, movable jaw backward opening 120°, with cleaning |  |  |
|  | connector, working length 10 cm |  |  |
| 22 | Nasal Scissors, straight, with cleaning connector, working length 13 cm |  |  |
| 23 | Bipolar Suction Forceps, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, |  |  |
|  | working length 12.5 cm, for use with Bipolar High Frequency Cords |  |  |
| 24 | Bipolar High Frequency Cord, for SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable |  |  |
|  | sockets for Bipolar Suction Forceps and Bipolar Forceps , length 450 cm |  |  |
| 25 | Punch, circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with cleaning connector, |  |  |
|  | working length 18 cm, including Cleaning Tool |  |  |
| 26 | Frontal Ostium Seeker, double ended, No. 4, both sides curved 90°, tips bent right and left, length 22 cm |  |  |
| 27 | Antrum Curette, oblong, small size, length 19 cm |  |  |
| 28 | Antrum Cannula, LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm |  |  |
| 29 | Suction Tube, with mandrel and cut-off hole, with distance marking at 5 - 9 cm, 9 Fr., working length 10 cm |  |  |
| 30 | Knife, pointed, length 19 cm |  |  |
| 31 | Elevator, double-ended, semisharp and blunt, length 20cm |  |  |
| 32 | **Camera Head 3 Chip full HD camera head for modular HD camera system** |  |  |
|  | Three-Chip FULL HD Camera Head compatible, progressive scan, soakable, gas- and plasma-sterilizable, with |  | 1 |
|  | integrated Parfocal Zoom Lens, focal length f = 15 - 31 mm (2x), 2 freely programmable camera head buttons |  |  |
|  | Camera sensor | Standard 3 x 1/3" CCD Chip or better |  |
|  | Resolution | 1920 x 1080 pixels (FULL HD) or better |  |
|  | Scan mode Ratio | Progressive, 16:9 or better |  |
|  | Camera Head Buttons | 2 to 3 programmable buttons with 5 to 6  (or equivalent) Remote functions in icon form |  |
|  | Zoom & focusing | Optical zoom & focusing through individual couplers, f=15-31 mm (2x optical zoom) or better |  |
|  | Par focal zoom | 2x par focal zoom |  |
|  | Color system | PAL or NTSC |  |
|  | Light weight | Yes |  |
|  | Minimum light intensity | ≤1.30 lux at (f=1.4mm) or equivalent |  |
|  | Integrated control | Should be able to control complete cameras |  |
|  |  | system i.e. light source endoflator, |  |
|  |  | video processing module, camera modules, video capturing, still images. Through |  |
|  |  | camera head |  |
|  | Visualization mode | At least 4 or better different images  enhancement for better visualization in  surgery |  |
|  | Cleaning/Sterilization | Yes |  |
| 33 | **Main Processor Full HD video processing module with integrated documentation functions for** |  |  |
|  | images and video capturing and for use with rigid, flexible & 3D HD modules. |  |  |
| 2 | HD module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated and digital Image |  | 1 |
|  | Processing Module, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, |  |  |
|  | **Consisting of:** |  |  |
|  | Mains Cord, length 300 cm |  |  |
|  | DVI-D Connecting Cable, length 300 cm |  |  |
|  | Connecting Cable, length 100 cm |  |  |
|  | USB Flash Drive, 32 GB |  |  |
|  | USB Silicone Keyboard, with touchpad, US |  |  |
|  | Video output connections | 2 x DVI-D, 1 x 3G-SDI, 3x inputs for  compatible camera modules, LAN  Connection |  |
|  | USB Recording | 4x USB connection for video recording &  stills |  |
|  | Resolution | 1920x1080p or better (FULL HD) |  |
|  | Power supply | 230± 10 % VAC, 50/60 HZ |  |
|  | Special display | Parallel live display of visualization modes  besides white light mode (picture-in-picture) with 5 display settings |  |
|  | 3D Compatibility | Should be able to upgrade in 3D Camera system |  |
|  | Modularity | Compatibel upto 3 camera modules can be connected to video processing module |  |
|  | Integrated PIP | Primary and secondary camera signals  display through PIP in 5 different sizes in full HD mode simultaneously |  |
|  | Video Capturing | via USB in full HD quality (MPEG4) |  |
|  | Still images | via USB in full HD quality (JPEG) also can be  able to adjust by for 4 different ways |  |
|  | Presets | via USB in full HD quality (MPEG4) |  |
|  | Patient record | Upto 50 patient data record data facility |  |
|  | White balancing | Can be perform through button on video  processing module |  |
|  | Light control system | Should be able to control the intensity of  light source |  |
|  | Integrated Control | Parameters can be adjust during surgery |  |
|  | Brightness and fiberscope and filters | Integrated digital image processing module  for a 5 level brightness regulation and  electronic anti-moiree filters for fiberscopes |  |
| 34 | **Camera Head Processor Digital Full HD camera module for use with Three chip camera head** |  |  |
|  | HD link module, for use with FULL HD threechip camera heads, power supply 100 - 120 VAC/200 - 240 VAC, |  | 1 |
|  | 50/60 Hz, |  |  |
|  | **Consisting of:** |  |  |
|  | Mains Cord, length 300 cm |  |  |
|  | Link Cable, length 20 cm |  |  |
|  | Camera input | 3 Chip FULL HD camera head connectivity |  |
|  | Resolution | 1920 x 1080 Full HD |  |
|  | Control | Microprocessor controlled |  |
|  | Power supply | 200-240 VAC, 50/60 HZ |  |
| 35 | **LED LIGHT SOURCE UNIT** |  |  |
|  | Cold Light Fountain Power LED 175 with integrated high-performance LED and one light outlet, |  | 1 |
|  | power supply 110- 240 VAC, 50/60 Hz |  |  |
|  | **including:** |  |  |
|  | Mains Cord |  |  |
|  | Connecting Cable |  |  |
| 36 | Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, |  | 1 |
|  | length 250 cm |  |  |
|  | Lamp type | High performance LED |  |
|  | Color Temperature | 6400K or better |  |
|  | Lamp outlet | Yes |  |
|  | Control | Yes |  |
|  | Integrated Control | Should be able to control through camera head |  |
|  | Fiber Optic Light Cable | Compatible autoclaveable fiber optic light cable from same manufacture |  |
|  | Lamp life | ≥25000 hrs or better |  |
| 37 | **Medical Grade Full HD 3D Monitor** |  |  |
|  | 32" 3D Monitor, color systems PAL/NTSC, max. screen |  | 1 |
|  | resolution 1920 x 1080, |  |  |
|  | image format 16:9, |  |  |
|  | Video inputs: 2x DVI, 2x 3G-SDI, VGA, S-Video, Composite, |  |  |
|  | Video outputs: DVI, 2x 3G-SDI, VGA, S-Video, Composite, |  |  |
|  | power supply 100 - 240 VAC, 50/60 Hz, |  |  |
|  | 5 V DC output (1 A), wall-mounted with VESA 200 adaptor, for |  |  |
|  | use with Monitor Stand 9832 SFH |  |  |
|  | **Including:** |  |  |
|  | Monitor Power Supply, external, 24 V |  |  |
|  | Mains Cord |  |  |
|  | 3D Polarization Glasses, fogless, passive - Cable Cover |  |  |
|  | Max. screen resolution & size | Full HD 1920 x 1080, 32" or better |  |
|  | Image format / aspect ratio | 16:9 |  |
|  | Video signal input | 2x DVI, 2x 3G-SDI, VGA, S-VIDEO, Composite |  |
|  | Video signal output | DVI, 2x 3G-SDI, S-VIDEO, Composite |  |
|  | Power supply | 100-240 VAC, 50/60 Hz |  |
|  | Monitor quality | Medical Grade |  |
|  | Monitor stand | Yes |  |
| 38 | Local Trolley |  |  |

|  |  |  |
| --- | --- | --- |
| **37. ENT LED Headlight** | | |
| **S.No** | **Description** | **Qty** |
| 1 | LED Headlight white light, lightweight model, control unit and rechargeable battery box | 8 |
|  | on headband, charging unit, illumination area adjustable from 30 - 150 mm in diameter with |  |
|  | 40 cm working distance. |  |
|  | **Including:** |  |
|  | LED Headlight |  |
|  | Control Unit |  |
|  | Battery Box |  |
|  | Battery Pack |  |
|  | Charger USB |  |
|  | Headband |  |

**38. LINEN**

(Sample of all these Items will be checked before the selection)

|  |  |  |  |
| --- | --- | --- | --- |
| **S#** | **NOMENCLATURE** | **SPECIFICATIONS** | **Qty** |
| 1 | Bed sheets | Made of best quality cotton ,single standard size:- 60” x 100”  Color: Dark blue/White | 40 |
| 2 | Blankets | Best quality, camel color,size:60x100 | 15 |
| 3 | Cap Class-IV | Made of best quality , Color: dark blue | 5 |
| 4 | Face Mask,caps,shoe cover Disposable box | Good quality, disposable | 5 |
| 5 | Pillow foam with cover | Standard size of best quality polythene  Size: 24 X 15  Along with pillow cover: Size: 26 x 17, White Latha | 30 |
| 6 | Rexin in meters | Good quality, dark brown in color |  |
| 7 | Table Cover with glass | Made of best quality , Color: Dark Blue, Size: | 5 |
| 8 | White Coat for Doctor / technicians | White, good quality according to size | 10 |
| 9 | White Coat for Nurses | White, good quality according to size | 6 |
| 10 | Examination gloves boxes | good quality | 50 |

**39. HOSPITAL FURNITURE**

|  |  |
| --- | --- |
| **I** | **RESUSCITATIONTROLLY**  **Should d be FDA approved**  Dished stainless steel top.Approx. 630 x 445mm. 25mm dished. Lift-up laminated work flap Approx.300 x 450  Three drawers 2 shallow and 1 deep.  1 Shallow drawer fitted with drawer Tidy Unit.  Lower cupboard with central locking/securing all drawers and cupboard. Operated by cupboard door and use of security seals.  Double hook stainless steel I.V. Pole. Double push handle  Lowlevel plastic bumper bar  Quality cushion castors (2 x braking)  2 x stainlesssteel cylinder holders for D or E size cylinders.  Cardiac board 600 x 400 x 55mm with stainless steel housingbrackets atrear of trolley.  Universal rail system fitted towidth of trolley.  6"aneroid sphygmomanometer with adult velcro cuff and rail clamp. Electronic timer and rail clamp.  Venturi suction unit with O2outlet and 2.0 liter jar. Yankauer suction tube and connecting tubing.  O2flow meter fitted to O2venturi outlet 0-15 lpm.  Pin index regulator with outlet for connection to remoteventuri hose and O2outlet. Intubation set comprising:  -Macintosh laryngoscope with 4/5 bladeset. -Magill introducing forceps  -Adult resuscitator  -Set disposable E.T. tubes (5) -Set Guedel airways (3)  -Pen torch  -Artery forceps (2)  -Dressing scissors (2) Set plastic tubes  Examination light torailclamp. |

|  |  |
| --- | --- |
| **ii** | **DRUGDISPENSINGTROLLEY. Should d be FDA approved**  For the storage and dispensing of medication by ward nursing staff.  Frame and carcass shall be constructed from mild steel powder coated/ Polymer. Mounted on approx125mm castors.  The approximate internal dimensions of the medicine container shall be 80 w x50 d x30 hcm.  The hinged lid of the unit shall slope down to thefront. Lockable with heavy-duty dead lock.  Shall be fitted with the following accessories:  oDocument support on under lid surface. o4 tier rack for holding medications.  waste bins qty2 off mounted under the medicine container. ampoule holding rack.  oDispensing tray to collect spillages when pouring liquid oral medication. oSide mounted fold-down writing flap.  different compartments for medicines with labeling. oLower shelf mounted under medicine container.  Unit shall be supplied with a security clamp for wall fixing at the appropriate location, thus ensuring that the trolleyis secure when not in use. |
| **iii** | **DRESSINGTROLLY**  **Should d be FDA approved.**  Mobile,4 leg frame made of Stain less steel pipe16SWG1”x1”all made of stainless steel. Tubular frame for msasafetyrail, nosharpedges. Two shelves surface ground to reducegl are, resistant to disinfectants, trolley, 800mmhigh,fitted above and below with frames and shelf 20SWG made of CrNi steel size 24”x18”,to accept two sterilization tray.1SS ring for bowl 10”with SS bowl and 1SS ring for bucket with SS bucket. Bottle rack at top shelf. Four125mm swivel castors, electrically conductive. | |
| **iv** | **DRIPSTAND** S.S. sliding rod.  Adjustable height with blocking system. Screw handles.  2 simple hooks.  Mobile with five castors. | |
| **v** | **PATIENTTROLLY**  Patient’s trolley for use in patient’s recovery areas/ transportation.  Upholstered top, with adjustable head 1900 x600mm, at 890mm high, inc. 750mm head, 75mm thick,with full upholstery  Siderails  Bumper bar/push handle IV pole  200mm base plate castors Safe Working Load 180kg Head section adjustable.  **Should d be FDA approved** | |

|  |  |
| --- | --- |
| **vi** | **WHEELCHAIRNONFOLDING**  Made of heavy gauge steelseem less tubing. Manualself propelling.  Singlehand brake for both wheels Push handles with anti-slip material.  Swing away detachable footrests anddetachablearm rest. Seat width of 50cm with washable and foldable material. Suitable for patientsupto125kg.  20cm Solid front swivel able wheels and 60cm rear wheels. Seat height of 50cm. **Should d be FDA approved** |
| **vii** | **WHEELCHAIR. Should d be FDA approved.**  Made of heavy gauge steelseem less tubing. Non folding type.  Manual self-propelling.  Single hand brake for both wheels Push handles with anti-slip material.  Swing away detachable footrests and detach able arm rest. Seat width 50cm cushioned with washable material. Suitable for patientsupto125kg.  20cm Solid front swivel able wheels and 60cm rear  wheels. Seat height of 50cm.  Folding type for transportation and storage |
| **viii** | **STRETECHER FOR PATIENTS. Should d be FDA approved**  Patient’s trolley for use in patient’s recovery areas/ transportation.  Upholstered top, with adjustable head 1900 x600mm, at 890mm high, inc. 750mm head, 75mm thick, with full upholstery  Side rails  Bumper bar/push handle IV pole  200mm base plate castors Safe Working Load180kg Head section adjustable. |

|  |  |
| --- | --- |
| **ix** | **STORAGE CABINET FOR MEDICINE AND SURGICAL INST** Instrument and medicine cabinet of mild steel with EPC finish. Floor standing with double locking.  Made of 20G steel sheet.  Glazed doors and6 glass shelves. Size of 150 X 90 X 40cm.  **Should d be FDA approved** |
| **X** | **LINENTROLLY**  Frame made of 1”x1”square S.S. pipe 16 SWG.Having three shelves.  Baseframemadeof1”x2”SS.Pipe16SWGroundedatcornerswithkickofdiscand withfourrubberballbearingcastors125mmtwoofwhichwithbrakingsystem,wear resistant, non-staining, electrically conductive.  Dimensions: 75cm (W) x45cm (D)x 120cm (H).  **Should d be FDA approved** |

**40. MEDICAL GASES SUPPLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **S#** | **Nomenclature** | **Specifications** |  |
|  | Oxygen Cylinder 240 Cft with gauge & trolley | Flow meter 0-10L/min with regulator humidifier & pressure gauge up 3500 PSI. Connected directly to the Cylinder.  Complete with regulator, gauge and standard accessories.  Carrier for cylinder with two wheels, BOC certificate must be provided. It should be FDA approved. | 2 |
|  | Oxygen Cylinder 48 Cft with gauge & trolley | Flow meter 0-10L/min with regulator humidifier & pressure gauge up 3500 PSI. Connected directly to the Cylinder.  Complete with regulator, gauge and standard accessories.  Carrier for cylinder with two wheels, BOC certificate must be provided. It should be FDA approved. | 2 |
|  | Oxygen Cylinder Key | Good quality Oxygen Cylinder Key | 4 |
|  | Oxygen Flow Meter | * Direct fitted to the Outlet (BOC British Standard), included with the Humidifier.    Nickel-plated brass base and body, Clear shroud, Expanded lower scale 0-5Lpm | 4 |
|  | Oxygen gauge | Complete with regulator, gauge and standard accessories. | 4 |
|  | Cylinder trolleys | Heavy duty stainless steel | 4 |

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**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**EQUIPMENTS**

**For the department of Gynae/OBS**

March 2017

|  |  |  |  |
| --- | --- | --- | --- |
| **SPECIFICATION FOR THE ITEM OF GYNAE / OBS** | | | |
| **S.NO** | **NAME OF BIO MEDICAL EQUIPMENTS/ITEMS** | **SPECIFICATIONS** | **QTY** |
| 1 | Ultrasound with linear,vaginal,section probes and puncture | Famio 8  Diagnostic Ultrasound system  Model: SSA-530A  Power: 220-240 V -50/60H2 580VA  SUS Symbol -/P4  Serial No. P4E06Z5090 | 1 |
| 2 | Hysteroscope | Rigid Hysteroscope 5.5mm (4mm Telescope)   1. Outer Diameter 5.5mm 2. Working Length 187mm 3. Working Channel 3Fr   Optics   1. Telescope Diameter 4mm 2. Telescope Direction of view 120 or 300 wide angle 3. Locking mechanism quick lock.   Instruments  Available 3Fr. Instrument flexible: Biopsyforceps | 1 |
| 3 | Colposcope | Optical System  Eye piece magnification 10x  Zoom Ratio 1.6x  Focus adjustment range 220-350mm  Filter detachable green filter  Magnification  220mm working distance 3.7-23.4x  300mm working distance 3.0-18.8x  350mm working distance 2.8-16.9x  Field of view  220mm working distance Ø 58.9-9.3mm  300mm working distance Ø 73.1-11.6mm  350mm working distance Ø 82.4-13.1mm  Standard Accessories  Main Body  Balance arm  Horizontal arm  Light guide cable  Floor Stand  Floor Stand Bone B  Tray for light source  Video Processor with Camera Head Model: OTV-SC2  DUI Output  Power supply 220-240V  Frequency 50/60Hz  Type of Protection Class I  White Balance Adjustment  Camera Head (CH-SC2-1D)  Inter live type CCD  Wt 40g  Sensitivity F1.4  Immiscible in disinfectant solution  LED light source Model: CLL-VI  Advance LED Technology  Lap Life 2000 hrs  Energy 55w  Power 220-240V  Frequency 50/60Hz | 1 |
| 4 | Laparoscope | Video Processor with Camera Head Model: OTV-SC2  Scope Compatibility, Fiberscopes, Telescope and Calposcopes  DUI Output  Power Supply 220-240V  Frequency 50/60Hz  Type of Protection Class I  White Balance adjustment  Camera Head (CH-SC2-1D)  Inter live type CCD  Wt 40g  Sensitivity F1.4  Immersible in Disinfectant Solution  LED light source Model: CLL-VI  Advance LED Technology  Lap Life 2000 hrs  Energy 55w  Power 220-240V  Frequency 50/60Hz  CO2 high flow Insuflater Model: UHH-R  CO2 as for Medical use  Maximum gas flow 20 L/min  Abdominal Pressure range 325mmHg  Large front Panel display  3How rate setting High/median/low  19” Medical grade Monitor  Power: 220-240V  Frequency 50/60Hz  Display size 19”  Local Made Video system count with LCD Monitor arm  00 Telescope 10mm working length  310mm autoclaveable  Trocar 10mm  Trocar 5mm  Biopsy Forceps 5mm  Probe 5mm | 1 |
| 5 | Sphygmomanometer Desk Type | Mercury Scale, Best Quality | 6 |
| 6 | Baby weighing scale | Best Quality | 2 |
| 7 | Fetal stethoscopes /Fetoscope | Best Quality | 4 |
| 8 | Instrument Sterilizer | Stainless Steel  Medium Size  Best Quality | 2 |
| 9 | Kidney basins(stainless steel) | Stainless Steel   1. Large Size 2. Medium Size 3. Small Size | 6 |
| 10 | Sponge bowls(stainless steel) | Stainless Steel, Best Qulality   1. Large Size 2. Medium Size 3. Small Size | 6 |
| 11 | Clinical oral thermometer (dual Celsius /Fahrenheit scale) | Mercury Scale | 10 |
| 12 | Low reading thermometer (dual Celsius/Fahrenheit scale) | Mercury Scale | 2 |
| 13 | Surgeon’s hand bush with white nylon bristles | Best Quality   1. Medium 2. Small | 6 |
| 14 | Plastic sheeting(1) | Macentoch | 1 |
| 15 | Perineal /Veginal/Cervical Repair pack | Stainless Steel, Best Quality | 1 |
| 16 | Vaginal speculum (Hamilton Bailey(1).-----type | Stainless Steel, Best Quality | 1 |
| 17 | Neonatal resuscitation pack | Best Quality | 1 |
| 18 | Ventilatory Bag(1) | Best Quality | 1 |
| 19 | Suction catheter Ch 12(2) | Best Quality | 6 |
| 20 | Suction catheter Ch 10(2) | Best Quality | 6 |
| 21 | Bivalve speculum | Stainless Steel | 1 |
| 22 | Small(1) | Stainless Steel | 1 |
| 23 | Medium(1) | Stainless Steel | 1 |
| 24 | Large(1) | Stainless Steel | 1 |
| 25 | Sponge forceps(1) | Stainless Steel | 1 |
| 26 | Uterine sound(1) | Stainless Steel | 1 |
| 27 | Vulsellum forceps(1) | Stainless Steel | 1 |
| 28 | Dressing forceps(1) | Stainless Steel | 1 |
| 29 | Obstetrics forceps, outlet, mid cavity breach | Stainless Steel | 2 |
| 30 | Basic Equipment for Uterine Evacuation | Stainless Steel | 2 |
| 31 | Vaginal speculum (sims) (1) | Stainless Steel , Best Quality   1. Large 2. Medium 3. Small | 2 |
| 32 | Sponge (ring) forceps or uterine packing forceps(1) | Stainless Steel | 2 |
| 33 | Single tooth tenaculumforeceps(1) | Stainless Steel | 2 |
| 34 | Long dressing forceps(1) | Stainless Steel | 2 |
| 35 | Uterine dilators,size 13-27 (French) 1-set. | Stainless Steel | 2 |
| 36 | Sharp and blunt uterine curettes, size o or 00(1) | Stainless Steel | 2 |
| 37 | Malleable metal sound(1) | Stainless Steel | 2 |
| 38 | Manual vacuum aspiration | Best Quality | 2 |
| 39 | Basic uterine evacuation instruments PLUS | Best Quality | 2 |
| 40 | Vacuum syringes(single or double value) | Plastic Body, Best Quality | 2 |
| 41 | Silicone lubricant | Best Quality | 2 |
| 42 | Adapters | Best Quality | 2 |
| 43 | Flexible cannulae ,size 4 to 12 mm | Best Quality | 2 |
| 44 | Vaccum aspiration with electric pump basic uterine evacuation + hand pump | Best Quality | 2 |
| 45 | Vacuum pump with extra glass bottles | Best Quality | 2 |
| 46 | Connecting tubing | Best Quality | 2 |
| 47 | Cannulae (any of the following) Flexible, 5,6,7,8,9,10 mm. | Best Quality | 2 |
| 48 | Curved rigid 7,8,9,10,11,12,14 mm | Best Quality | 2 |
| 49 | Straight right, 7.8.9.10.11.12. mm | Best Quality | 2 |
| 50 | Equipment for insertions and removals of contraceptive sub dermal implants | Best Quality | 2 |
| 51 | Trocar with plunger No 10 | Best Quality | 2 |
| 52 | Dissecting forceps | Stainless Steel, Best Quality | 2 |
| 53 | Tweezers | Stainless Steel, Best Quality | 2 |
| 54 | Minikan for delivery(teaching) | Best Quality | 1 |
| 55 | CTG Machine | Best Quality | 2 |
| 56 | Models   * Twins Pregnancy * Breech presentation * Trasveselie * Plaeata Previa * Normal pregnancy * Ectopic pregnancy * Pelric girdle * Fetal head | Best Quality | 2 Each |
| 57 | Nebulizer |  | 4 |
| 58 | Eclampsia Beds |  | 4 |
| 59 | Pulse Oximiter |  | 4 |
| 60 | Suction Machine |  | 4 |
| 61 | Delivery Tables |  | 6 |
| 62 | Instruments sterilizer/ Small autoclave |  | 2 |
| 63 | Adult Weight Machine |  | 3 |
| 64 | Baby Weight Machine |  | 3 |
| 65 | Spot lights |  | 6 |

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**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**EQUIPMENTS**

**For the department of Psychiatry**

March 2017

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Item Name** | **Specification** | |
| 1 | **Neurovvirtual 25 Channel EEG machine,** | Total channel  Communication  Studies performed  Photic stimulator  Impedence checked  Notch filter  Low filters  High filters | 25  Ethernet  EEG  White led 1-30Hz  Software  50/60Hz  0.03Hz to 15Hz  1 Hz to 100Hz |
| 2 | **ECT machine** | Input supply  Load  Apparatus size  Weight | AC -100-120,210-240V,40/60Hz  70W  305\*170\*105mm(12\*6.5\*4) |

### New KPK Logo

**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

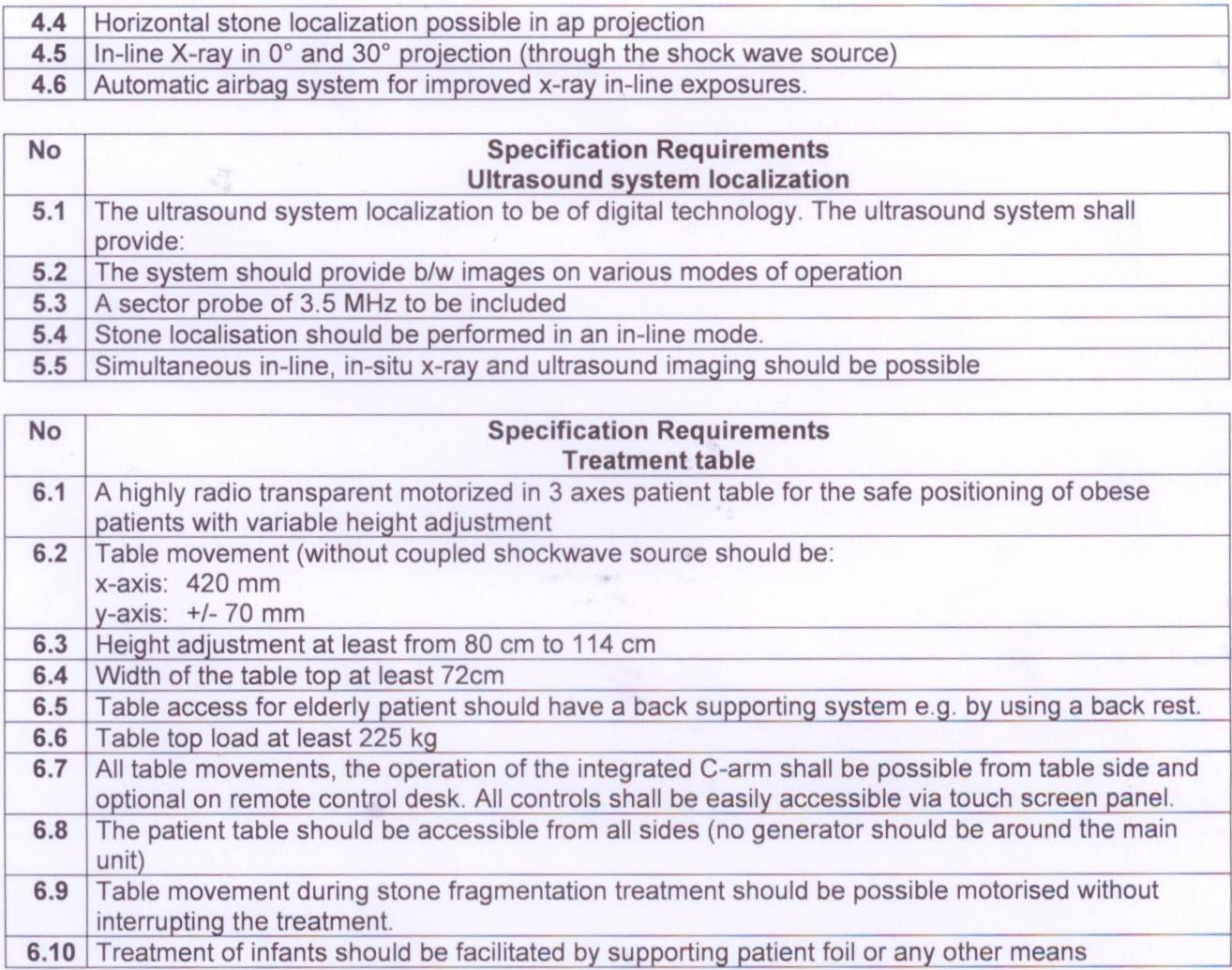
**EQUIPMENTS**

**For the department of Urology**

March 2017

|  |  |  |  |
| --- | --- | --- | --- |
| **S#** | **Name of item** | **Specification** | **Qty** |
| 1 | **HOLMIUM Laser system for urology applications** | System, with power supply 230 VAC, 50/60 Hz, 1  **Special Features**  Laser power should be 20 watt (portable system)  High Mobility & Flexibility Due To The Desktop Design  Easy To Operate  Easy To Maintain  Small Diameter Fibers  Low Stress For Patient  Short Treatment Time  Least Possible Tissue Damage  High Flexibility Fibers For Use With Rigid & Flexible  Power consumption should not exceed by 1800VA.  Dimension of the equipment 610x250x430.  With all necessary accessories.  2 Fiber kit basic set 1  **Including:**  3 pcs. CALCULASE II Fiber 230 pm, reusable  3 pcs. CALCULASE II Fiber 365 pm, reusable  3 pcs. CALCULASE II Fiber 600 pm, reusable  **Optional Accessories**  3 Fiber Cutter, for use with fibers 1  4 Fiber Stripper, for use with fibers 1  5 Fiber Stripper Set, sterilizable, including Silicone Pad, Ceramic Knife, Fiber Stripper 230 pm, Fiber Stripper 1  365 pm, Fiber Stripper 600 pm. |  |
| 2 | **Bipolar Resectoscope** | 1 Telescope 30°, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated. 1  2 Electrotome, **1**  **Including:**  Working Element  Cutting Loop, bipolar  Coagulation Electrode, bipolar High Frequency Cord  Protection Tube  3 Resectoscope Sheath, including connecting tubes for in- and outflow, 26 Fr., oblique beak, rotatable inner 1  tube with ceramic insulation.  4 SCHMIEDT Visual Obturator, for use with sheaths 24/26 Fr., Color code: yellow 1  5 Cutting Loop bipolar, 24/26 Fr., for use with Telescope color code: yellow 1  **6** Bipolar High Frequency Cord, 1  7 400 High End-Set, SCB, power supply 220 - 240 VAC, 50/60 Hz, HF connecting sockets: Bipolar 1  combination Multifunction Unipolar 3-pin + Erbe Neutral electrode combination 6.3 mm jack and 2-pin, System requirements: software based diathermy  **Special Features:**  Bipolar generator with 370 W HF power  Unipolar generator with 300 HF power.  intergrated voltage stability control or arc control  Large Neutral Electrode for controlled plasma formation at the active cutting loop  Prolonged cutting service life.  constant distance maintained between the active & neutral eletrodes ensures a conssitant cutting performance.  Minimized current flow for greater patient comfort.  Minimal thermal damage to tissue for faster heating time & reduced rate of complications.  Less Nerve stimulation.  Arc controlled cutting  improved hemostsis 8 modes.  Resection in saline solution reduces the risk of the TUR syndrome.  Compatible with existing equipment (Sheaths, Telescopes,ETC)  Cost-Effective & Time -saving alternative to greenlight LASER vaporization.  Enhanced visuallization during vaporization due to record bubble formation.  New Resection mode ensures perfect & easy cutting.  performance: Resection speed -faster than ever.  Greater Patient Safety: with +for saline & + for bipolar.  Automatic current regulation: maximum efficiency with minimal current.  100 applications with text can be stored  Bipolar application with saline irrigation solution.  convinent use via 6.5" touch screen.  service port for software updates and and HF functionalities upgrades |  |
| 3 | **Magnet plate on the unit enables easy & space-saving mount for resection box.** **Consisting of** | Autocon 400,  Mains Cord  Connecting Cable, length 100 cm  External Hardware Upgrade for "bipolar resection" function.  **Consists of:**  External Auxiliary Module  Bipolar HF-Cabel  Assembly, Holder Auxiliary Module Valid for devices with Software Generator control 10.00 and above.  Devices with software below 10.00 need an additional software and possible hardware update, made in the factory  Coagulating Electrode bipolar, pointed, 24 Fr., for use with Telescope color code: yellow  Vaporization Electrode half moon, bipolar, ball-shaped, 24/26 Fr., for use with HOPKINS® II Telescope color  Protection Tube, for sterilization and storage of electrodes, loops, curettes and knives  Three-pedal footswitch for HF Generators. | 1 |
| 4 | **URS Adult** | Uretero-Renoscope, 8 Fr., 6°, 1  Length 43 cm  Distal tip 7 Fr.  instrument sheath 8 Fr., one-step, 12 Fr.  autoclavable, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 5 Fr.,  for use with instruments up to 4 Fr. Following accessories are included: Insertion Aid  Instrument Port with Sealing System and Quick Release Lock  LUER-Lock Tube Connector LUER-Lock Tube Connector LUER-Lock Tube Connector Flow Control Stopcock  **Wire Tray**  2 PEREZ CASTRO Forceps, long jaws for Steinstrafk, rigid, double action jaws, 4 Fr., length 60 cm, color code: blue 1  3 Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue 1  4 Biopsy Forceps, rigid, double action jaws, 4 Fr., length 60 cm, color code: blue 1  5 Grasping Forceps for large stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue 1  6 Stone Basket, sterile, disposable 2.5 Fr., length 120 cm 1  **Cystoscope Adult**  1 Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission 1  incorporated, color code: red  2 Cystoscope-Urethroscope-Sheath, 22 Fr., with obturator and 2 LUER-Lock adaptors, Color code: blue 1  3 Cystoscope-Urethroscope Sheath, 17 Fr., with obturator and 2 LUER-Lock adaptor, Color code: yellow 1  4 Telescope Bridge with 2 lockable instrument channels 1  5 Catheter Deflecting Mechanism, with 2 instrument channels, with ratchet 1  6 Grasping Forceps for removal of foreign bodies, 7 Fr. double action jaws, flexible, length 40 cm 1  7 Biopsy Forceps, 7 Fr., double action jaws, flexible, length 40 cm 1  8 Coagulating Electrode, 4 Fr., unipolar, length 53 cm 1  9 Unipolar High Frequency Cord, with 4 mm plug, length 300 cm, for models , Erbe type T, older models and Ellman 1  10 LED 150, High-Performance LED with one light outlet, power supply 100 - 240 VAC, 50/60 1  Hz  **Including:**  Mains cord  11 Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm |  |
| 5 | **Rigid Biopsy Forceps** | 1 Biopsy Forceps, 7 Fr., semi-rigid, double action jaws, length 40 cm 1  **Stone Punch**  I Punch-Working Element  2 Punch Sheath, with Central Valve, including connecitng tubes for in- and outflow, 25 Fr., straight beak, with obturator 1  3 Insert Tube, with channel for flexible instruments, 7 Fr., with atraumatic beak for urethroscopy |  |
| 6 | **Nephroscope** | **Nephroscope**  1 Straight Forward Telescope 6°, with parallel eyepiece, autoclavable, with LUER-Lock connection for inflow, with 1  instrument channel, fiber optic light transmission incorporated, Color code: yellow-red  2 Operating Sheath, 26 Fr., for continuous irrigation and suction, with LUER-Lock stopcock, rotatable, Color-code: black-red  3 Hollow Obturator and Fascial Dilator, Color code: black-red  4 Telescoping Dilation Set, consisting of: set of 6 dilators, sizes 9, 12, 15, 18, 21 and 24 Fr., with 2 rigid and 2 flexible guide 1  rods  5 Dilator, 27 Fr.,  6 Grasping Forceps for large stones and stone fragments, 3 expanding jaws and small fixation spikes, with spring handle, 1  length 38 cm, for use with Telescopes and Operating Sheaths Color code: red-black  7 Grasping Forceps for large stones and stone fragments, serrated, double, action jaws, with ring handle, length 38 cm, for 1  use with Telescopes and Operating Sheaths Color code: red-black  8 Grasping Forceps for large stones and stone fragments with fenestrated jaws and ring handle, double action jaws, length 38 cm, for use with Telescopes and Operating Sheaths Color code: red-black  9 Knife, straight, with 3-ring- handle, length 38 cm, for use with Telescopes and Operating Sheaths Color code: red-black  10 Puncture Cannula, for localization of renal calculi including inner and outer cannulas, package of 5 1  11 Guide wire, for introduction through the cannula package of 2 1  12 Dilation Cannula, 0 3 mm, for introduction of a second safety guide wire , consisting of an inner and outer cannula 1  13Grasping Forceps for large stone fragments and coagula, fenestrated jaws and spring handle, length 38 cm, for use with perkutaneous **1**  14 Biopsy Forceps, single action jaws, with ring handle, length 38 cm, for use with perkutaneous nephroscopcs 1  15 Scissors, single action jaws, length 38 cm, for use with perkutaneous nephroscopes 1  16 Knife, sickle-shaped, with 3-ring-handle, length 38 cm, for use with perkutaneous nephroscopcs 1  17 Suction Tube, length 38 cm, for use with perkutaneous nephroscopes |  |
| 7 | **Pneumatic Lithoclast** | **Pneumatic Lithoclast**  1 Lithoclast System, for pneumatic lithotripsy, power supply: 100/120/230/240 VAC, 50/60 lIz, 1  Consisting of:  Lithoclast Unit  Mains Cord  One-Pedal Footswitch, digital, two-stage  Fabric Tube, for connecting Lithoclast to the central compressed air supply, length 400 cm  Lithoclast Handpiece, autoclavable, for use with Lithoclast  Sealing Rings, for use with Lithoclast Handpiece package of 5  Spare Damping Unit, autoclavable, for use with lithotripsy probes, package of 20  Silicone Tube, autoclavable, length 200 cm, for connecting Handpiece  Cleaning Brush, outer diameter 2.5 mm, length 35 cm  Instrument Oil, bottle of 50 ml  2 Air Compressor, 0 - 8 bar,  power supply 230 VAC, 50/60 Hz,  Dimensions (w x d x h): appr. 500 x 320 x 340 mm,  weight appr. 22 kg  Consisting of:  Compressor  Fabric Reinforced Tube, for connecting Lithoclast to Air Compressor  3 Lithoclast Lithotripsy-Wire- Probe, diameter 0.8 mm,for use with Ureteroscopes in conjunction with bridge and handpiece  4 Lithoclast Lithotripsy-Wire- Probe, diameter 1.0 mm, for use with Ureteroscopes in conjunction with bridge and handpiece  5 Lithoclast-Lithotripsy-Wire-Probe diameter 1.0 mm, for use with telescopes and with sheaths as well for use with Miniature Nephroscope with instrument port and handpiece  6 Lithoclast-Lithotripsy-Wire-Probe diameter 1.6 mm, for use with telescopes and with sheaths as well for use with Miniature Nephroscope with instrument port and handpiece  7 Lithoclast-Lithotripsy-Wire-Probe diameter 2.0 mm, for use with telescopes and with sheaths and handpiece |  |
| 8 | **Peads Cystoscope** | **Peads Cystoscope**  1 Straight Forward Tele- scope 0°, *e* 1.9/2.1 mm, autoclavable, fiber optic light transmission incorporated,  Color code: green  2 Cystoscope-Urethroscope Sheath, 9.5 Fr., working length **14** cm, with 4 Fr. working channel, with Obturator and 2 LUER-Lock cones, color code: blue-white  **3** Cystoscope-Urethroscope Sheath 11 Fr., working length 14 cm, with working channel 5 Fr., with Obturator and 2 1  LUER-Lock connectors, color code: red-white  **4** Grasping Forceps double action jaws, flexible, 3 Fr., length 28 cm 1  5 Biopsy Forceps, 3 Fr., double action jaws, flexible, length 28 cm 1  6 Coagulating Electrode, 3 Fr., unipolar, length 53 cm 1  7 Needle Electrode, 3 Fr., unipolar, length 53 cm 1 |  |
| 9 | **Peads Resectoscope** | **Peads Resectoscope**  1 Straight Forward Telescope 0°, enlarged view, *o* 4 mm, autoclavable, fiber optic light transmission  incorporated, Color code: green  2 Resectoscope Sheath with LUER-Lock stopcock, including connecting tube for inflow, **11** Fr. and obturator Color code: green  3 Working Element, motion by means of a spring. The thumb support is movable. In rest position the electrode is 1  inside the sheath.  **5 Cutting** Loop angled, color code: black This article is only available in units of **6 6**  **6** Telescope Bridge with 1 lockable instrument channel 1 |  |
| 10 | **Urethrotome Peads** | 1 Straight Forward Telescope 0°, enlarged view, e 4 mm, autoclavable, fiber optic light transmission  incorporated, Color code: green  2 Working Element, motion by means of a spring. The thumb support is movable. In rest position the electrode is inside the sheath.  3 Resectoscope Sheath with LUER-Lock stopcock, including connecting tube for inflow, 11 Fr. and obturator  Color code: green  4 Urethrotome Sheath with LUER-Lock stopcock, 10 Fr., with obturator and 2 LUER- lock adaptors 1  5 Telescope Bridge with 1 lockable instrument channel  6 Cold Knife straight This article is only available in units of 6 1  7 Cold Knife round This article is only available in units of 6 1  8 Cold Knife sickle-shaped This article is only available in units of 6 1  9 Cold Knife hook-shaped This article is only available in units of 6 1  10 Cutting Loop angled, color code: green This article is only available in units of 6 1 |  |
| 11 | **Urethrotome Adult** | **Urethrotome Adult**  1 Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light 1  transmission incorporated, color code: red  2 SACI-1SE, Urethrotome Sheath, 21 Fr., with channel for Fililbrm-Bougies and 2 LUER-lock adaptors 1  3 Obturator, for urethrotome sheath, 21 Fr., 1  4 Telescope bridge, with channel for instruments 5 Fr. 1  5 Supplementary Sheath, half-round, to insert a balloon catheter, to slip on urethrotome sheath 1  6 Supplementary Sheath, for continu- ous irrigation and suction, to slip on urethrotome sheath 1  7 Working Element (also for use with optical Urethrotome) Motion by means of a spring. The thumb support is movable. In rest 1  position the electrode is inside the sheath.  8 SACHSE Cold Knife straight, not to be used with IIF current 1  **OR**  Cold Knife round, not to be used with HF current 1  1 Ureteroscope, 7 Fr., 6°, length 34 cm, distal tip 6.5 Fr., instrument sheath 7 Fr., one-step, 9.9 Fr., autoclavable, with 1  angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 4.8 Fr.,  for use with instruments up to 4 Fr. **Following accessories are included:**  Insertion Aid  Instrument Port with Sealing System and Quick Release Lock  LUER-Lock Tube Connector LUER-Lock Tube Connector Seal, package of 10  Flow Control Stopcock  Wire Tray  2 Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue I  Grasping Forceps for large stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue 1  4 Biopsy Forceps, rigid, double action jaws, 4 Fr., length 60 cm, color code. blue I  5 PEREZ CASTRO Forceps, long jaws for Steinstrafle, rigid, double action jaws, 4 Fr., length 60 cm, color code: blue 1  6 Splitting Forceps, cutting upwards, rigid, single action jaws,4 Fr length 60 cm, color code: blue 1  7 Stone Basket, 5 Fr., length 60 cm 1  **Consisting of:**  **1** x 27023 VT 3-Ring Handle  3x 27023 VR Basket  3x 27023 VS Coil  8 Brush for Cytology, 3 Fr., non-sterile, disposable, package of 5 1 |  |
| 12 | **Video Flexible Cvstoscope** | **1 Video-Cysto-Urethroscopc,** PAL, with contrapositive deflection, 1  deflection of distal tip 210°/140°,  direction of view 0°,  angle of view 120°,  working channel inner diameter 6.5 Fr.,  sheath size 16 Fr.,  working length 37 cm,  Following accessories are included:  Case  Grasping Forceps, for small fragments, 5 Fr., single action jaws, flexible, length 73 cm  Biopsy Forceps, 5 Fr., single action jaws, flexible, length 73 cm  Leakage Tester, with bulb and manometer  Pressure Compensation Cap  Cleaning Brush, 6 Fr., flexible, length 100 cm, for working channel  Video Connecting Cable  LUER-Adaptor  **2 Stone Basket**, 5 Fr., length 60 cm 1  Consisting of:  lx 3-Ring Handle  3x Basket  3x Coil  Stone Punch  1 Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission 2  incorporated, color code: red  2 Punch-Working Element 2  3 Punch Sheath, with Central Valve, including connecitng tubes for in- and outflow, 25 Fr., straight beak, with obturator 2  4 Insert Tube, with channel for flexible instruments, 7 Fr., with atraumatic beak for urethroscopy 2 |  |
| 13 | **URS Adult Rigid** | 1 Uretero-Renoscope, 8 Fr., 6°, length 43 cm, distal tip 7 Fr., instrument sheath 8 Fr., one-step, 12 Fr., autoclavable, with angled 3  eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation. ports and 1 working channel 5 Fr., for use with  instruments up to 4 Fr.  Following accessories are included:  Insertion Aid  Instrument Port with Sealing System and Quick Release Lock  LUER-Lock Tube Connector LUER-Lock Tube Connector Seal, package of 10  Flow Control Stopcock  Wire Tray  2 Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue 3  3 Grasping Forceps for large stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, Color code: blue 3  4 Forceps, long jaws for Steinstral3e, rigid, double action jaws, 4 Fr., length 60 cm, color code: blue 3  5 Biopsy Forceps, rigid, double action jaws, 4 Fr., length 60 cm, color code: blue 3  6 Stone Basket, 5 Fr., length 60 cm 3  Consisting of:  lx 3-Ring Handle  3x Basket  3x Coil  URS Peads Rigid  1 Pediatric Uretero-Renoscope, 7.3 Fr., 6°, one-step, conical, 7.3-7.6 Fr., working length 25 cm, autoclavable, with angled 3  eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 3.6 Fr. for instruments up to 3 Fr., with instruments port , sealing and cleaning adapter  2 Forceps for grasping stone fragments, rigid, double action jaws, 3 Fr., length 60 cm, color code: green 3  Adult Nephroscope  1 Wide-Angle Straight Forward Telescope 6°, with parallel eyepiece, autoclavable, with LUER-Lock connection for 1  inflow, with instrument channel, fiber optic light transmission incorporated,  Color code: yellow-red  2 Operating Sheath, 26 Fr., for continuous irrigation and suction, with LUER-Lock stopcock, rotatable, Color-code: black-red 1  3 Hollow Obturator and Fascial Dilator, Color code: black-red 1  4 Telescoping Dilation Set, consisting of: set of 6 dilators,size 9, 12, 15, 18, 21 and 24 Fr., with 2 rigid and 2 flexible guide rods 1  5 Dilator, 27 Fr., 1  6 Grasping Forceps for large stones and stone fragments, 3 expanding jaws and small fixation spikes,with spring handle, length 1  31 cm, for use with Telescope and Sheaths Color code: yellow-black  7 Grasping Forceps for large stones and stone fragments with fenestrated jaws and ring handle, double action jaws, length 38 1  cm, for use with Telescopes and Operating Sheaths Color code:red-black  8 Grasping Forceps for large stones and stone fragments, serrated, double,action jaws, with ring handle, length 38 cm, for use 1  with Telescopes and Operating Sheaths Color code: red-black  9 Knife, straight, with 3-ring- handle, length 38 cm, for use with Telescopes and Operating Sheaths Color code: red-black 1  10 Puncture Cannula, for localization of renal calculi including inner and outer cannulas, package of 5 1  11 Guide wire, for introduction through the cannula package of 2 1 |  |
| 14 | **Urology Laparoscopic Hand Instruments** | 1 Forward-Oblique Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission  incorporated, color code: red  2 Trocar, size 6 mm, 3  Consisting of:  Trocar only, with pyramidal tip  Cannula without valve, with insufflation stop- cock, length 10.5 cm  Multifunctional Valve  3 Trocar, size 11 mm, color code: green, 2  Consisting of:  Trocar only, with pyramidal tip  Cannula without valve, with insufflation stop- cock, length 10.5 cm  Multifunctional Valve  11 Reducer 11/5 mm 1  12 MANHES Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm,"Tiger-jaw", 2 x 4 2  teeth, single action jaws,  Consisting of:  Plastic Handle, with MANHES style ratchet, with larger contact area  Outer Tube, insulated  Forceps Insert  13 Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action 1  jaws,  Consisting of:  Plastic Handle, without ratchet, with larger contact area  Outer Tube, insulated  Forceps Insert  14 Dissecting and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, right angled, 2  double action jaws,  Consisting of:  Plastic Handle, without ratchet, with larger contact area  Outer Tube, insulated  Forceps Insert  15 Dissecting Forceps, rotating, right angled, size 10mm length 36 cm, double action jaws, consisting of:  Metal Handle, with hemostat style ratchet  Outer Tube, insert  Forceps Insert  16 Dissecting and Grasping Forceps, rotating, long, size 10 mm, length 36 cm, double action jaws, Consisting of:  Metal Handle, without rachet  Outer Tube, insulated  Forceps Insert  17 Rassweiler Dissecting and Grasping Forceps, rotating, size 10 mm, length 36 cm atraumatic, double action jaws, double action 1  jaws, length of jaws 40 mm, for organs,  Consisting of:  Metal Handle, without ratchet  Outer Tube, insulated  Forceps Insert  18 METZENBAUM Scissors, rotating, dismantling, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, double action jaws, curved, length of jaws 15 mm, size 5 mm, length 36 cm  Consisting of:  Plastic Handle, without ratchet, with larger contact area at the finger ring  Metal Outer Sheath, insulated  Forceps Insert  19 Scissors Insert, for METZENBAUM scissors, double action jaws, curved, size 5 mm, length 36 cm, for use with trocars size 6 mm  20 Grasping Forceps, CLERMONT-FERRAND model, rotating, dismantling, with connector pin for bipolar coagulation, especially 1  Suitable for dissection, double action jaws, size 5 mm, length 36 cm, color code: light blue  Consisting of:  Plastic Handle, without ratchet  Metal Outer Sheath  Forceps Insert  21 Surgical Sponge Holder, self-retaining, size 5 mm, length 30 cm 1  Consisting of:  Handle  Outer Sheath, insulated  Sponge Holder Insert  22 Suction and Irrigation Tube, with lateral holes, with two-way stopcock for single-hand control, size 5 mm, length 36 cm 1  23 RASSWEILER Needle Holder, straight jaws, axial ring handle with ratchet, size 5 mm, length 33 cm, for use with suture material 2/0-4/0, needle size RB (Ethicon)  24 RASSWEILER Needle Holder, convex/ concave, slim jaws, curved left, axial ring handle with ratchet, size 5 mm, length 33 cm, 1  for use with suture material 3/0, needle size RB-1 (Ethicon)  25 Rassweiler Transurethral Bougie, 18 Fr., with working channel 9 Fr., for anastomosis during laparoscopic prostatectomy 1  26 Unipolar High Frequency Cord, with 4 mm plug, length 300 cm, 1  27 Bipolar High Frequency Cord, length 300 cm,  28 Insufflator 40 Liters, Set with integrated module, power supply 100 - 240 VAC, 50/60 Hz consisting of:  Insufflator 40 Liters  Connecting Cable, length 100 cm  Universal Wrench  Insufflation Tubing Set, with gas filter, sterile, for single use, package of 5  Trocar, size 11 mm |  |
| 15 | **Video Flexible URS** | 1 Video Uretero-Renoscope steerable, with contrapositive deflection mechanism, 2  deflection of distal tip 270°/270°,  direction of view 0°  angle of view 90°  working channel 3.6 Fr.  sheath size 8.5 Fr.  working length 70 cm  **Following accessories are included in delivery:**  Case  Pressure Compensation Cap, for ventilation during gas and plasma sterilization  Leakage Tester, with bulb and manometer  Cleaning Brush, for working channels diameter 1.2 - 1.8 mm, length 150 cm  LUER-Adaptor, with seal  2 Grasping Forceps, 3 Fr., double action jaws, flexible, length 100 cm 2  3 Biopsy Forceps, 3 Fr., double action jaws, flexible, length 100 cm 2  4 Stone Basket, sterile, disposable, 2.5 Fr., length 120 cm 2  5 Coagulating Electrode, 3 Fr., unipolar, length 110 cm 2  6 Guide Wire, 3 Fr., with ball end, sterile, package of 10 2 |  |
| 16 | **High Definition Endovision System** | 1 HD module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated and digital Image Processing 1  Module, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 **Hz,**  **Consisting of:**  **Mains Cord, length 300 cm**  **DVI-D Connecting Cable, length 300 cm**  **Connecting Cable, length 100 cm**  **USB Flash Drive,**  USB Silicone Keyboard, with touchpad, US  2 III) link module, for use with FULL HD threechip camera heads, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, for 1  use with HD Connect Module  Consisting of:  Mains Cord, length 300 cm  Link Cable, length 20 cm  3 HD link module, for use with flexible video endoscopes and One-Chip Camera Heads (up to FULL HD), 1  power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, for use with HD Connect Module  Consisting of:  Mains Cord, length 300 cm  Link Cable, length 20 cm  **4 IMAGE1** SPIES Video Endoscope Adaptor, color systems PAL/NTSC, length 60 cm, for use with 111) Link Module **For Flexible 1**  **Scope**  **5 FLEX-XC Adaptor,** video endoscope adaptor, for use with IID  **6** 27" FULL lID Monitor, color systems PAL/NTSC, max. screen resolution 1920 x 1080, image format 16:9, Interface: RS 232, 1  power supply 85 - 264 VAC, 50/60 Hr, wall mount with VESA 100 adaptor  Including:  External 24 VDC Power Supply Mains Cord  **7** LED 150 Light source, I ligh-Performance LED Cold Light Fountain with one light outlet, 1  power supply 100 - 240 VAC, 50/60 Hz  **Including:**  Mains cord  8 Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm  **9** Equipment Cart, wide, high, rides on 4 antistatic dual wheels equipped with locking brakes, **mains switch** on cover, central beam 1  with integrated electrical subdistributors with 12 sockets, grounding plugs, Dimensions in mm (w x h x d):  Equipment cart: 830 x 1474 x 730, Shelf: 630 x 25 x 510, Caster diameter: 150 mm  **Consisting of:**  Base Module, equipment cart wide  Cover, equipment cart wide  Beam Package, equipment cart high  3x Shelf, wide  Drawer Unit with Lock, wide 2x Equipment Rail, long  Camera I folder  **10** Isolation Transformer 100V-120V :2000VA, with 3 special mains socket expulsion fuses, 3 grounding plugs, 1  dimensions: 330 x 90 x 495 mm (w x h x d) For usage with equipment carts  11 Earth leakage monitor 100V - 120V, for mounting at equipment cart,control panel dimensions: 44 x 80 x 29 **(w x h x d), For 1**  usage with isolation transformer  12 Monitor Holder, height adjustable, swiveling and tilting, central mount, swivel range approx. 360°, loading capacity max. 18 kg, 1 with monitor mount VESA 75/100, for use with Equipment Carts |  |
| 17 | **HD Camera System** | **1 Digital FULL HD videoprocessor module with integrated documentation function for image** 1  **and video capturingfor use with three-chip-FULL HD camera heads, one-chip- FULL-HD camera heads and video endoscopes in combination with compatible camera modules. Technical data:**  Connections: 2 x DVI-D output,  1 x 3G-SDI output,  3 x camera input for communication with compatible camera modules, LAN connection,  4 x USB connection (2 x front, 2 x back).  Max. resolution: 1920 x 1080 pixels.  Dimensions : (w x h x d): 30.5 cm x 5.4 cm x 32.0 cm.  Weight: 2.1 kg.  Power supply: 100 - 120 VAC, 50/60 Hz, 200 - 240 VAC, 50/60 Hz.  Power consumption: 62 VA.  Certified to: IEC601-1, 601-2-18, CSA 22.2 No. 601, UL2601-1 and CE acc. to MDD,  protection class 1.  Optional: USB to ACC adapter for device control.  **Special features:**  Modular design: For use in combination with at least one camera module.  Parallel live display of visualization modes besides white light mode (picture-in-picture).  Up to three different camera modules can be connected to the FULL HD video processor module.  Integrated picture-in-picture mode of two different camera modules in five different display sizes available.  Primary and secondary signal source change in picture-in-picture mode can be performed easily via camera head button. Integrated communication bus for device control and information display of connected devices.  Highest possible FULL HD resolution of 1920 x 1080 pixels.  Integrated documentation unit via USB.  Still image capturing in FULL HD quality (JPEG format).  Still image capturing can be adjusted by 4 different, timewise variable image freeze selections including picture-in-picture mode.  Video capturing in FULL HD quality (MPEG4 format).  Still image and video capturing in FULL HD quality in picture-in-picture mode for both signal sources simultaneously. Medical USB printer compatible (plug& play).  Data capturing functions can be released by optional USB footswitch.  Integrated digital imaging processing module for a 5 level brightness regulation and 2 electronic anti-moiree filter for fiberscopes.  Automatic adjustment of light intensity of light source via communication bus.  White balance button on front plate of video processor module.  Control of complete camera system can be realized from camera head from sterile area.  Short learning curve due to familiar handling, short starting time and customizable parameter adjustment. Grid and pointer can be displayed for improved orientation and communication during surgery.  Grid and pointer can be displayed individually and together.  2 x digital zoom, adjustable in 5 levels.  Possibility of 180° image rotation.  Possibility of vertical and horizontal image mirroring.  Storage of up to 20 individual presets.  Storage of up to 20 individual patient data.  System overview is individually configurable andsetup status can be directly displayed with intelligent icons. Parameter setup can be adjusted during surgery.  Number of menu icons can be customized individually for optimal system adjustment for the user. Modular design for integration of up to 3 camera modules and easy upgradeability with new technologies. Future ready thanks to integrated and extendable architecture.  **Including:**  FULL HD video processing module Power cable, length 300 cm  Silicone keyboard with touchpad DVI-D cable, length 300 cm  USB flash drive, 32GB  Communication bus cable  2 **Digital FULL HD camera module for use with Three-Chip-FULL-HD camera heads.**  **Technical Data:**  Camera input: 1 x three-chip-FULL HD camera head.  Maximal resolution: 1920 x 1080 pixels.  Automatic shutter.  Automatic Gain Control: Microprocessor controlled.  Connection: Module link cable to video processor module.  Dimension (w x h x d): 30.5 cm x 5.4 cm x 32.0 cm.  Weight: 1.86 kg.  Power supply: 100 - 120 VAC, 50/60 Hz, 200 - 240 VAC, 50/60 Hz.  Power consumption: 62 VA.  Certified to: IEC601-1, 601-2-18, CSA 22.2 No. 601, UL2601-1 and CE  according to MDD, protection class 1/CF defib.  **Special features:**  Modular design: For use with a video processor module and a compatible three-chip FULL HD camera head. In combination with a compatible three-chipFULLHD camera head the following modes can be activated without special  light sources or filters:  Color inversion by spectral color shift.  Brightening of dark areas in the endoscopic image. Contrastenhancement.  Compatible with special FULL HD microscopy camera head.  Highest possible FULL HD resolution of 1920 x 1080 pixels.  Progressive scan for an extremely smooth image without flickering and noise.  Up to 4 functions can be assigned to 2 freely programmable camera head buttons of compatible camera heads. Changes in visualization modes, device control, digital zoom, brightness, video capture, still image capture and direct print orders, picture-in-picture mode, image direction, white balance and setup settings can be performed in sterile area via camera head buttons.  Integrated digital image processing module for brightness adjustment in 5 levels and 2 electronic anti-moiree filters for fiberscopes.  Future ready thanks to integrated and extendable architecture.  Backward compatible with selected existing three-chipFULLHD camera heads.  **Including:**  FULL HD camera module  Power cable, length 300 cm  Link cable, length 20 cm   |  |  | | --- | --- | | 3 Digital three-chip camera head for full HD with 2x parfocal optical zoom and 2 freely  programmable camera head buttons, compatible with systems with integrated, innovative  Visualization technology for surgery by shifting the color spectrum and via homogeneous illumination and contrast enhancement. | 1 |   **Technical data:**  Image sensor: 3 x 1/3" CCD chip  Pixels: 1920 (h) x 1080 (v) pixels per chip.  CCD chip supports 16:9 input format  Progressive scan (full frame) for Integrated parfocal zoom lens, f = 15-31 mm (2x optical zoom).  display of 50 or 60 frames per second.Lens:  Minimum light sensitivity: 1.17 Lux (f = 1.4 mm).  Control buttons: 3 (2 of them freely programmable).  Dimensions (wxhxd): 38x100x48 mm.  Weight: 246 g.  Integrated connection cable with plug to CCU and color coded cable nut to indicate compatibility to Sterrad® 100S, NX 100NX Steris® Systeml, V-Prot sterilisation methods.  **Special features:**  Three-chip technology for brilliant images.  Image acquisition in format 16:9, with 1920 x 1080 pixels and progressive scan 50 Hz or 60Hz.  Digital through and through: Conversion of optical images to digital signals at the earliest possible site: the CCD sensing chip.  Digital input guarantees best possible image quality and eliminates need to convert analog input signals to digital output formats, which could result in a loss of image quality.  Captured digital images in format 16:9 can be displayed on WideView monitors in the same full HD format without being converted. This prevents a loss if image quality caused by image ovalization (stretching).  Image acquisition with an input resolution of more than 2 million pixels — 5 to 6 times higher than with SD (depending on the SD color system used, i.e. PAL or NTSC).Ergonomic design.  2 freely programmable camera head buttons.  2x parfocal optical zoom.  Compatible with systems with integrated, innovative visualization technology for surgery by shifting the color spectrum and via homogeneous illumination and contrast enhancement.  Suitable light sources are controllable by camera head buttons via communication bus. Suitable insufflators are controllable by camera head buttons via communication bus.  Suitable camera control units can store HD images and HD video clips to USB mass storage devices in conjunction with the camera head.  Suitable camera control units can print HD images in conjunction with the camera head and a compatible USB printer.  The camera head is rated CF-Defibrillation according to EN 60601 allowing cardiac surgery. The camera head is compatible with the following sterilization methods:  Sterrad® 100S, NX 100NX  Steris® Systeml, V-Prot  — ETO-Gas Sterilisation  A suitable sterilization tray is available to safely store the camera head during sterilization.  **Including:**  Digital three-chip Full HD camera head with 2x parfocal optical zoom and 2 freely programmable camera head buttons, with integrated connecting cable with plug to CCU, compatible with systems with integrated, innovative visualization technology for surgery by shifting the color spectrum and via homogeneous illumination and contrast enhancement.  4 X-LINK, link module, for use with flexible video endoscopes,  power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, for use with CONNECT TC **Including:**  Mains Cord, length 300 cm  Link Cable, length 20 cm  5 Video Endoscope Adaptor, color systems PAL/NTSC, length 60 cm, for use with X-LINK 1  6 Cold Light Fountain Power LED with integrated , high-performance LED and one light outlet, 1  power supply 110 - 240 VAC, 50/60 Hz  **Specification:**  Lamp Life: 30,000 Hours  Temperature: 6400K  Light Out Let 1  Lamp Tyoe High-Performance LED  Certified to TEC -601-1 Protection Class 1/CF  **Features:** Low Noise Can be controlable with camera head button  operation mode: Auto/ Manual  Display Digital  **Including:**  Cold Light Fountain Power LED  Mains Cord Connecting Cable  7 27" FULL HD Monitor, with VESA 100 adaption, With LED Back Light For Low Energy, 1  Picture-in-Picture (PiP) And Picture-by-Picture With Medical Grade FDA, UL & CE Approval  **Special Features:**  color systems PAL/NTSC,  max. screen resolution 1920 x 1080,  image format 16:09  Interface: RS 232,  power supply 85 - 264 VAC, 50/60 Hz,  Video inputs: DVI, VGA, S-Video, Composite /FBAS  Video outputs: DVI, S-Video, Composite/FBAS  **including:**  External 24 VDC Power Supply Mains Cord  8 Plastic Container for sterilizing, applicable for hydrogen peroxid- (Sterrad-) sterilizing and for storage, 1  perforated, with lid, for use with HD-Cameraheads. External dimensions (wxdxh): 385 x 255 x 75 mm  9 Fiber Optic Light Cable, **with straight connector,** extremely heat-resistant, enhanced light 1  transmission, diameter 4.8 mm, length 250 cm  10 ENDOFLATOR® 40 Set, with integrated module, 1  power supply 100 - 240 VAC, 50/60 Hz  **Special Features:**  High Degree of patient safety  Easy to use  Touch keys for precise preselection of set values  Optical & acoustic alarm signals in the event of patient overpressure  Fully automatic, electronically controlled gas refill (e.g in case of gas loss when changing instruments)  **Specification:**  Operative Mode: Operating Mode  Gas Flow 0-40I/min  Pressure: 0-401 mmHg (3990Pa)  Gas Cot  Measuring/  Electronic Control System  Parameter Display Insufflation Presuure  Intraabdominal Pressure: 0-50 mmHg (6650Pa) Gas Flow:0-40I/min  Gas Consumption :0-999 L  Power Supply 100-240 VAC, 50/60 Hz  Dimensionswxhxd 305x164x233 mm  Weight 6 KG  Certified to : IEC 601-1,CE [acc.to](http://acc.to) MDD  **Including:**  ENDOFLATOV 40  SCB Connecting Cable, length 100 cm  Universal Wrench  Insufflation Tubing Set, with gas filter, sterile, for single use, package of 5  11 High Pressure Hose. **(Local Supply) 1** |  |
| 18 | **Suction/Irrigation Set** | **Suction/Irrigation Set**, power supply 100 - 240 VAC 50/60 I lz, 1  **ready, compatible from RUI Release 45**  **Consisting of:**  **Suction/Irrigation Unit**  **Connecting Cable, length 100 cm**  **Basic Tubing Set, for single use**  **Control Cable**  **6** One-Pedal Footswitch, one-stage, digital, for activating the BOLUS function, **1**  **7 Single-use IRRIGATION tubing set with two puncture needles. 1**  **8 Single-use SUCTION tubing set. 1**  **Suction & Irrigation System**  12 Duomat Set 1  Power Supply 100-120, 230-240V'', 50/60 Hz  **Including:**  Duomat  Power Cord  VACU safe Pack Suction   |  |  |  | | --- | --- | --- | | 14 | Suction Bottle, 51 | 1 | | 15 | Bottle Stand, for suction bottle | **1** | | 16 | Irrigation Liquid Bottle, 11, sterilizable | 1 | | 17 | Silicone Tubing Set, sterilizable for use with pressure cuff | 1 | | 18 | Bottle Cap, for suction bottle 1.5 and 51, sterilizable | 1 | | 19 | Bottle Stand Holder | **1** | | 20 | Pressure Infusion Cuff, 1.51 | **1** | | 21 | Trolly (Local Made) | **1** | |  |
| 19 | MINIATURE NEPHROSCOPE MIP M | 1 Nephroscope , with angled eyepiece, 12 Fr., 12°, length 22 cm,  autoclavable, 1 working channel 6.7 Fr. for instruments up to 5 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths  Following accessories are included in delivery:  Insertion Aid, for guide wires  Instrument Port with Sealing System and Quick Release Lock  Seal, package of 10  LUER-Lock Tube Connector, male  LUER-Lock Tube Connector, with stopcock, dismantling  Cleaning Adaptor  2 1 One Step Dilator, with central channel for guide wires, for use with 15/16 Fr.  Operating Sheaths  3 1 One Step Dilator, with central channel and a second eccentric channel for guide  wires, for use with 16.5/17.5 Fr. Operating Sheaths  4 1 One Step Dilator, with central channel for guide wires and distal curved channel for  deflection of guide wires, for use with 21/22 Fr. Operating Sheaths  5 1 Operating Sheath, for the supine position, 15/16 Fr., working length 18 cm, for  continuous irrigation and suction, for use with Nephroscope for MIP M One Step Dilator and Applicator  6 1 Operating Sheath, for the supine position, 16.5/17.5 Fr., working length 18 cm, for  continuous irrigation and suction, for use with Nephroscope for MIP M One Step Dilator and Applicator  7 1 Operating Sheath, for the supine position, 21/22 Fr., working length 18 cm, for  continuous irrigation and suction, for use with Nephroscope for MIP M One Step Dilator and Applicator  8 1 Grasping Forceps for Foreign Bodies, 5 Fr., double action jaws, flexible, length 40 cm,  9 1 Biopsy Forceps, 5 Fr., double action jaws, flexible, length 40 cm,  10 1 Scissors, single action jaws, 5 Fr., flexible, length 40 cm, for use with Nephroscope  11 1 Grasping Forceps, rigid, for large stones and stone fragments, 3 expanding jaws and  small fixation spikes, with spring handle, length 36 cm, for use with Nephroscope for and instrument port  MINIATURE NEPHROSCOPE MIP XS/S with UROMAT EASI S,NO QTY SPECIFICATION  1 1 Nephroscope, with angled eyepiece, 7.5 Fr., 6°,  length 24 cm, autoclavable, 1 working channel 2 Fr., 1 irrigation channel 3 Fr., fiber optic light transmission incorporated, for use with  Operating Sheaths Following accessories are included: Instrument Port with Sealing System and Quick Release Lock  LUER-Lock Tube Connector, male  LUER-Lock Tube Connector, with stopcock, dismantling Insertion Aid, for guide wires  Wire Tray  Multiport Bridge  Cleaning Adaptor  2 1 One Step Dilator, with central channel for guide wires, for use with 8.5/9.5 Fr.  Operating Sheaths  3 1 Operating Sheath, 8.5/9.5 Fr., working length 15 cm, for  use with Nephroscope for MIP XS/S One Step Dilator and Applicator  5 1 One Step Dilator, with central channel for guide wires, for use with  Operating Sheath 11/12 Fr.  6 1 Operating Sheath, 11/12 Fr. working length 15 cm, for  continuous irrigation and suction, for use with Nephroscope for One Step Dilator and Applicator  7 1 Operating Sheath, for the supine position, 11/12 Fr., working length 18 cm,  for continuous irrigation and suction, for use with Nephroscope One Step Dilator and Applicator  8 1 Applicator for Sealing, including sheath and pusher for use with  Operating Sheaths  9 1 Applicator, for supine position, with rod for sealing with sheath, for use  with Operating Sheaths  10 1 Suction System, power supply 100 - 240 VAC 50/60 Hz,  Release 45  Consisting of:  Suction Unit  Connecting Cable, length 100 cm  Basic Tubing Set, for single use  Control Cable  11 1 One-Pedal Footswitch, one-stage, digital  Lower Track Adult  1 Forward Oblique- Telescope 30°, enlarged view, e 4 mm, autoclavable, fiber optic light transmission incorporated, 4  Color code : red  2 Cystoscope-Urethroscope-Sheath, 22 Fr., with obturator and 2 LUER-Lock adaptors, Color code: blue 4  3 Telescope Bridge with 2 lockable instrument channels 4  4 Grasping Forceps for removal of foreign bodies, 7 Fr. double action jaws, flexible, length 40 cm 4  5 Working Element Motion by means of a finger grip. In rest position the electrode is outside the sheath. 4  6 Cutting Loop, angled, 24/26 Fr., Color code: yellow 4  7 Monopolar High Frequency Cord with 4 mm plug for HF-unit, length 300 cm 4  8 Resectoscope Sheath, including connecting tubes for in- and outflow, 26 Fr., oblique beak, rotatable inner tube with ceramic 4  insulation, for usewith working element and Color code: yellow  9 Standard-Obturator for use with sheaths 24/26 Fr., Color code: yellow 4  10 ELLIK Evacuator 4  11 Urethrotome Sheath, 21 Fr., with channel for Filiform -Bougies and 2 LUER-lock adaptors 4  12 Obturator, for urethrotome sheath, 21 Fr., 4  13 Supplementary Sheath, half-round, to insert a balloon catheter, to slip on urethrotome sheath 4  14 Cold Knife, straight 4  Peads Lower Track  1 Straight Forward Tele- scope 0°, o 1.9/2.1 mm, autoclavable, fiber optic light transmission incorporated, Color code: green 2  2 Cystoscope-Urethroscope Sheath, 9.5 Fr., working length 14 cm, with 4 Fr. working channel, with Obturator and 2 LUER-Lock 2  cones, color code: blue-white  3 Cystoscope-Urethroscope Sheath 11 Fr., working length 14 cm, with working channel 5 Fr., with Obturator and 2 LUER-Lock 2  connectors, color code: red-white  4 Grasping Forceps double action jaws, flexible, 3 Fr., length 28 cm 2  5 Biopsy Forceps, 3 Fr., double action jaws, flexible, length 28 cm 2  6 Coagulating Electrode, 3 Fr., unipolar, length 53 cm 2  7 Unipolar High Frequency Cord, with 4 mm plug, length 300 cm 2  8 Urethrotome Sheath with LUER-Lock stopcock, 10 Fr., with obturator and 2 LUER- lock adaptors 2  9 Telescope Bridge with 1 lockable instrument channel 2  10 Resectoscope Sheath with LUER-Lock stopcock, including connecting tube for inflow, 11 Fr. and obturator Color code: green 2  11 Working Element, motion by means of a spring. The thumb support is movable. In rest position the electrode is inside the sheath. 2  12 Cutting Loop angled, color code: green 2  13 Coagulating Electrode angled, blunt, color code: green 2  14 Cold Knife, straight 2 |  |

|  |  |
| --- | --- |
| **No** | **Specification Requirements Shock Wave Generator** |
| 1.1 | The shock wave generator to be of electromagnetic type. |
| 1.2 | Focussing of shockwave without focussing lens. |
| 1.3 | Single focus system |
| 1.4 | The therapy source should be under-table model enabling to treat both kidneys without moving the patient. |
| 1.5 | Shockwave source, x-ray system and treatment table should be one single fully integrated system |
| 1.6 | Effective focal energy for treatments of the stones. Energy in -6dB focal zone. 0.24-3.65mj/mm2 |
| 1.7 | The peak pressure at therapy focus should be variable. The value at maximum energy level should be150M•a. |
| 1.8 | The minimum focal pressure at -6dB should be at least 5 MPa |
| 1.9 | Selectable energy flux density in every focal zone. Range (minimum and maximum) in -6dB focal zone. Maximum energy flux density should reach at least (3.65) mJ/mm2. |
| 1.10 | Minimum energy flux density in -6 dB should be 0.42 mJ/mm2 |
| 1.11 | Selectable ECG and fixed frequency triggering. |
| 1.12 | The shock wave penetration depth (measured from surface of shock wave coil to half-focal­length) should be at least 165 mm. |
| 1.13 | The focal area (-6dB focus) should be atleast 120 mm2 or more |
| 1.14 | Shock wave frequency should be variable of at least 60 to 240 pulses per minute. Fastest shock wave frequency at maximum energy level is 4/Sec. |
| 1.15 | State diameter of shockwave source, which should be at least 30cm |
| 1.16 | Coupling area of shockwave head should be at least 700 cm2 for low skin pressure but also not exceed 850 cm2. \_ |
| 1.17 | Life time for: |
|  | Coil 2 million |
|  | high voltage generator 8 million |
| 1.19 | Lithotripsy function can be operated from patient table or from remote control console. |
| 1.20 | Position of patient head constant no matter where stones are located.  \_ |
| 1.21 | The system provides a fast localization with low exposure to radiation. |



### New KPK Logo

**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**EQUIPMENTS**

**For the department of ORTHOPEADIC**

March 2017

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Modality name with specification** | **Specification** |  | **Qty** |
| 1 | Interferential Therapy | Out Put maximum: 75mA/500 ohms per channel G 25mA/500 ohms Power consumption: 50W Rated Voltage: 230V +/-10% Class :1 Type BF | Provided to Physiotherapy department | 03 |
| 2 | Electrical muscle 'stimulator | G: 25Ma/500 Ohms GMC and MENS: 1000 uA/ 500 Ohms \*Didynamic Currents' \*DF,MF,CP,LP.: 75Ma/500 Ohms  \*UR, IG 30,1E 50, FM, STOCH, Ens , T/R: 75mA/500 Ohm  \*IFM,AMF atld KOTS 100mA/500 Ohms I IV and TENS: 140 Ma/500 Ohms Power Consumption: 50 VA  Rated Voltage: 100-240 VAC | Provided to Physiotherapy department | 06 |
| 3 | Microwave Diathermy | Power: AC220, 50/60 1-lz, Power consumption: 700W, Output strength: 0-240W, Output Frequency: 2450MHz, Wave Length: 124.4 mm, Output Mode: | Provided to Physiotherapy department | 04 |
| 4 | Hydrotherapy Unit | Supply: 220-240 V Frequency: 5 0/6 0 Hz. Temperature Range:'upto 50 C Fully Insulated ,•- Auto Temperature Regulator Lx\Vx1):711x 411 x 311 Water storage 1200 litters  Continuous / intermittent | Provided to Physiotherapy department | 01 |
| 5 | Shortwave Diathermy | Pulsed and Continuous, Frequency: 27,12M11z/ Pulse Frequency 10-300 Hz / Pulse Duration 200-600 us HF Power: 400W / 1000W | Modality use for deep pain management | 6 |
| 6 | Cervical Traction | Main Voltage ; 220-240 VAC 50/60 Hz Three therapy modules: Continuous, Intermittent and Harmonic Intermittent traction. Traction Force adjustable 1-100 Kg. Power consumption: Max 150 VA | Modality use. for Cervical pain, 'prolapsed cervical and herniated disc paresthesia numbness and radiated pain to upper limb. | 2 |
| 7 | Therapeutic Ultrasound | Out Put: Maximum: —3 MHz Power Consumption: 70 W Rated Voltage: 230 V + /- 10% | Effective for Stiff joints mobilization deep soft tissues pain and for adhesion breaking | 2 |
| 8 | Lumber Traction | Supply: 220V/ 50 / 60 Hz Swing Angle: -40-1-40 Tractiollinte.:,,Q79 Minutes Power:. 150 VA,.  Forming angle: -10-20 .  Intermittent Time: 0-90 sec Slow Traction Distance: 0-200 mm  Total Traction Time: 0-60  min Traction Force: 0-99 kg | Modality used for lumbo sacral pain  Prolapsed intervertebral disk  Herniated and sciatic pain | 3 |
| 9 | Nerve Conduction Study/ EMG | EMG: 0-2500 UvRMS Resolution:: ;>. 0.25 Uv/ div  BW: 8-1500Hz  Mains Suppression: > 40 Db Tolerance: 8% | Use for diagnostic purposes for example nerve conduction study and electromyography to detect any abnormality in the nerve/ muscle or both | 2 |
| 10 | Radiant Bath/ Tunnel Bath | Supply: 220- 240 V Frequency: 50/60 Hz Radiators: 12x100 W | Specially. used for, pain management am Id covered large area of he body. | 6 |

ORTHOPEADIC INSTRUMENTS

1 **FLEXIBLE REAMER SET**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | KH001R | REAMER (AWL) F/TIBIA D8MM L260MM | 1 |
| 2 | KH317R | TARGON REAMER F/OPENING THE MEDULL.CANAL | 1 |
| 4 | GE661 | MFR TRAUMA SET COMPLETE CONSISTING OF | 1 |
|  |  | BURR SHAFT GE666R . |  |
|  |  | GUIDE WIRE GE663S |  |
|  |  | T HANDLE |  |
|  |  | STORAGE RACK |  |
|  |  | REAMER HEAD D9.0MM |  |
|  |  | REAMER HEAD D 9.5MM |  |
|  |  | REAMER HEAD D 10MM |  |
|  |  | REAMER HEAD D 11MM |  |
|  |  | REAMER HEAD D 12MM |  |
|  |  | REAMER HEAD D 13MM |  |
|  |  | REAMER HEAD D 14MM |  |
|  |  | REAMER HEAD D 15MM |  |
|  |  | REAMER HEAD D 16MM |  |
| 5 | KH642R | REAMER D6.0MM L340MM AO-LRG. | 1 |
| 6 | KH644R | REAMER D7.0MM L340MM AO-LRG. | 1 |
| 7 | KH656R | REAMER D8.0MM L470MM AO-LRG. | 1 |
| 8 | JK342 | BOTTOM FOR 1/2 CONTAINER HEIGHT:135MM | 1 |
| 9 | JP022 | PRIMELINE 1/2 LID BLUE | 1 |
| 10 | JF113R | 1/2 SIZE PERF BASKET 243X253X76MM | 1 |
| 11 | JF945 | SILICONE CUSHIONING PAD 248X237MM | 1 |

**2 A/O FRACTURE REDUCTION SET**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| J. | F0118R | REPOSITION FORCEPS 205MM | 1 |
| 2 | F0124R | FORCEPS W/SCREW LOCK 170MM | 1 |
| 3 | FO125R | FORCEPS W/SCREW LOCK 235MM | 2 |
| 4 | F017OR | SELF-CENTER.FCPSW/THREAD-FIX2 5/7/190MM | 1 |
| 5 | F0172R | SELF-CENTER FCPSW/THREAD-FIX3.5/11/260MM | 1 |
| 6 | F0173R | SELF-CENTER.FCPSW/THR-FIX4 5/11.5/280MM | 1 |

**3. BROAD TIP SCISSOR**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | BC606R | METZENBAUM SCISSORS,CURVED,180MM | 1 |

**4 GENERAL ORTHOPEDIC SET**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | BT232R | RETRACTOR 1 PRONG SHARP24MM248MM | 1 |
| 2 | BT240R | VOLKMANN RETRACTOR1-PRONGSHARP222MM | 1 |
| 3 | FK166R | BONE ELEVATOR 17MM SHARP 240MM | 1 |
| 4 | FK17OR | BONE ELEVATOR 10MM SQ 220MM | 2 |
| 5 | FK171R | BONE ELEVATOR 17MM SQ242MM | 2 |
| 6 | FK176R | BONE ELEVATOR 260MM | 1 |
| 7 | FK319R | ELEVATOR HARTPRS-HDL CVD 6MM 191MM | 1 |
| 8 | FK323R | ELEVATOR HARTPRS-HDLSHARP13MM | 1 |
| 9 | FK324R | ELEVATOR HARTPRS-HDL STR 14MM | 1 |
| 10 | FLO66R | OMBREDANNE MALLET 520GR.D:40/240MM | 1 |
| 12 | FL513R | STILLE OSTEOTOME 10/205MM | 1 |
| 13 | FL5158 | STILLE OSTEOTOME 15/205MM | 1 |
| 14 | FL517R | STILLE OSTEOTOME 25/205MM | 1 |

**5. INSTRUMENT SET FOR INTER LOCKING INTRAMEDULLARY**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | KHOO1R | REAMER (AWL) F/TIBIA D8MM L260MM | 1 |
| 2 | LX203R | T-HANDLE L160MM W/JACOBS CHUCK >D6.5MM | 1 |
| 3 | FF871R | ENGINEERS WRENCH FOR FF87OR AND FF872R | 1 |
| 4 | KH099R | GAUGE FOR INTRAMEDULLARY PINS | 1 |
| 5 | KH301R | TARGON SCREW GAUGE F/DRILl SLEEVE | 1 |
| 6 | KH320S | TARGON GUIDE PIN 02.5MM L800MM | 1 |
| 7 | KH310R | KNOCKING-OUT INSTRUMENT | 1 |
| 8 | KH311R | TARGON KNOCK OUT ADAPTOR F NAIL D:8-11 | 1 |
| 9 | KH312R | TARGON KNOCK-OUT INSTRUMENT 12-16MM | 1 |
| 10 | KH314R | TARGON AIMING TROCAR D3.0MM F/DIST.AIM. | 1 |
| 11 | KH317R | TARGON REAMER F/OPENING I HE MEDULL.CANAL | 1 |
| 12 | KH0495 | TISSUE PROTECTIVE PLATE | 1 |
| 13 | KH318R | TARGON TREPHINE OD12.5MM W/HANDLE | 1 |
| 14 | KH323R | TARGON GUIDE PIN W/DISK F/KH318R | 1 |
| 15 | KH113R | SLOTTED MALLET | 1 |
| 16 | EL066R | OMBREDANNE MALLET 520GR.D:40/240MM | 1 |
| 17 | LX2025 | T-HANDLE L150MM W/JACOBS CHUCK >D6.5MM | 1 |
| 18 | KH265R | TARGON CENTER PUNCH D6.0MM | 1 |
| 19 | KH285R | TARGON CENTER PUNCH D4.5MM | 1 |
| 20 | KH266S | TARGON DRILL SLEEVE F/D6.OMM | 1 |
| 21 | KH271R | TARGON TISSUE PROTECTION SLEEVE | 1 |
| 22 | KH267R | TARGON TWIST DRILL D3.5MM F/LOCKING SCRW | 1 |
| 23 | KH268R | TARGON TWIST DRILL D4.5MM F/LOCKING SCRW | I |
| 24 | KH2O1R | TARGON TRAY F/KH200 | 1 |
| 25 | JF511 | CLOTH F.LINING DEEP CONTAINERS | 1 |
| 26 | JG785B | IDENT.LABEL UP TO 13 LETTERS RED | 1 |
| 27 | KH21OR | TARGON FEM.AIMING DEVICE/INSERTION INSTR | 1 |
| 28 | KH211R | TARGON ADAPTER F/FEMUR NAILS 8-11MM | 1 |
| 29 | KH213R | TARGON ADAPTER F/FEMUR NAILS 12-15MM | 1 |
| 30 | KH28OR | TARGON TIB.AIMING DEVICE/INSERTION INSTR | 1 |
| 31 | KH281R | TARGON ADAPTER F/TIBIA NAILS 8-11MM | 1 |
| 32 | KH283R | TARGON ADAPTER F/TIBIA NAILS 12-14MM | 1 |
| 33 | KH262R | TARGON ADAPTER SCREW F/TIBIA 8-11MM | 1 |
| 34 | KH264R | TARGON ADAPTER SCREW F/TIBIA 12-14MM | 1 |
| 35 | KH212R | TARGON ADAPTER SCREW F/FEMUR 8-11MM | 1 |
| 36 | KH214R | TARGON ADAPTER SCREW F/FEMUR 12-15MM | 1 |
| 37 | KH308R | TARGON EXTENSION SW10 F/ADAPTER SCREW | 1 |
| 38 | KH2O3R | TARGON TRAY F/KH202/KH248 | 1 |
|  |  | CONTAINER |  |
| 39 | 1E607 | PACKING STENCIL F/KH335R (KH334) | I |
| 40 | JF511 | CLOTH F.LINING DEEP CONTAINERS | 1 |
| 41 | IG785B | IDENT.LABEL UP TO 13 LETTERS RED | 3 |
| 42 | TE821 | PACKING STENCIL F/KH151R (KH150) | 1 |
| 43 | TE824 | PACKING STENCIL F/KH153R (KH150) | 1 |
| 44 | JK441 | BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM | 1 |
| 45 | JP001 | PRIMELINE 1/1 LID RED | 1 |

**6 INSTRUMENT SET FOR EXTERAL FIXATION**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | FRO11R | HAND DRILL W/JACOBS CHUCK 280MM | 1 |
| *2* | GA031R | KEY F/LARGE JACOBS CHUCK 6.5MM | 1 |

7. **INSTRUMENT SET FOR FEMORAL PLATING (LARGE FRAGMENT)**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | GC423R | TWIST DRILL D4.5MM L160/120MM SQUARE SHK | 2 |
| 2 | GC445R | SCREW TAP D4.5MM L130/30MM SQUARE SHANK | 2 |
| 3 | GC444R | SCREW TAP D4.5MM L130/70MM SQUARE SHANK | 2 |
| 4 | LS078S | TISSUE PROT.SLEEVE F/SCREW TAP D4.5MM | 1 |
| 5 | LS102R | AIMING DEVICE W/TIP F/DRILL D6.SMM | 1 |
| 6 | LSOO8R | SCRWHLDING SHEATH FITS GC355GC455LS002 | 1 |
| 7 | LS14OR | DRILL TEMPLATE F/NARROW SELF-COMPRESS.PL | 1 |
| 8 | LS142R | DRILL TEMPLATE F/BROAD SELF-COMPRESS.PL. | 1 |
| 9 | LP031R | TRAY 1 F/LP030/LP130/LP230 | 1 |
| 10 | LS066R | COUNTERSINK F/D6.5MM W/T-HANDLE | 1 |
| 11 | GC405R | T-HANDLE W/SQUARE CHUCK | 1 |
| 12 | LSO6OR | SCREW TAP F/D6.5MM W/T-HANDLE | 1 |
| 13 | LSO47R | DPTH GGETO SELECT SCREW LGTHD4.5/6.5MM | 1 |
| 14 | DB402R | MCCALL SCALER ANG BLUNT150MM | 1 |
| 15 | LS039R | FLAT SPANNER SW8.0 L160MM | 1 |
| 16 | LS081R | COMPRESSION DEVICE F/BONE PLATES | 1 |
| 17 | LS082R | HAND RATCHET F/COMPRESSION DEVICE LS081R | 1 |
| 18 | LS083R | FIXATION BOLT F/COMPRESS.DEVICE LS081R | 1 |
| 19 | LS210 | BENDING TEMPLATE F/STAND.PLATES 5 HOLES | 1 |
| 20 | LS212 | BENDING TEMPLATE F/STAND.PLATES 7 HOLES | 1 |
| 21 | LS214 | BENDING TEMPLATE F/STAND.PLATES 9 HOLES | 1 |
| 22 | LP032R | TRAY 2 F/LP030/LP130/LP230 | 1 |
| 23 | JG645B | IDENTIABELSINSCR.UP TO 13 LETTERSRED | 2 |
| 24 | JF501 | WRAPPING DRAPE F.JF489R 850X8OOMM | 2 |

8 **INSTRUMENT SET FOR FEMORAL NAILING**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | **QTY** |
| 1 | KHOO1R | REAMER (AWL) F/TIBIA D8MM L260MM | 1 |
| 2 | LX203R | T-HANDLE L160MM W/JACOBS CHUCK >D6.5MM | 1 |
| 3 | FF871R | ENGINEERS WRENCH FOR FF87OR AND FF872R | 1 |
| 4 | KH099R | GAUGE FOR INTRAMEDULLARY PINS | 1 |
| 5 | KH301R | TARGON SCREW GAUGE F/DRILL SLEEVE | 1 |
| 6 | KH320S | TARGON GUIDE PIN D2.5MM L800MM | 1 |
| 7 | KH31OR | KNOCKING-OUT INSTRUMENT | 1 |
| 8 | KH311R | TARGON KNOCK OUT ADAPTOR F.NAIL D:8-11 | 1 |
| 9 | KH312R | TARGON KNOCK-OUT INSTRUMENT 12-16MM | 1 |
| 10 | KH314R | TARGON AIMING TROCAR D3.OMM F/DIST.AIM. | 1 |
| 11 | KH317R | TARGON REAMER F/OPENING THE MEDULL.CANAL | 1 |
| 12 | KH0495 | TISSUE PROTECTIVE PLATE | 1 |
| 13 | KH318R | TARGON TREPHINE OD12.5MM W/HANDLE | 1 |
| 14 | KH323R | TARGON GUIDE PIN W/DISK F/KH318R | 1 |
| 15 | KH113R | SLOTTED MALLET | 1 |
| 16 | FLO66R | OMBREDANNE MALLET 520GR.D:40/240MM | 1 |
| 17 | LX202S | T-HANDLE L150MM W/JACOBS CHUCK >D6.5MM | 1 |
| 18 | KH265R | TARGON CENTER PUNCH D6.OMM | 1 |
| 19 | KH285R | TARGON CENTER PUNCH D4.5MM | 1 |
| 20 | KH266S | TARGON DRILL SLEEVE F/D6.OMM | 1 |
| 21 | KH271R | TARGON TISSUE PROTECTION SLEEVE | 1 |
| 22 | KH267R | TARGON TWIST DRILL D3.5MM F/LOCKING SCRW | 1 |
| 23 | KH268R | TARGON TWIST DRILL D4.5MM F/LOCKING SCRW | 1 |
| 24 | KH2O1R | TARGON TRAY F/KH200 ' | 1 |
| 25 | JF511 | CLOTH F.LINING DEEP CONTAINERS | 1 |
| 26 | JG785B | IDENT.LABEL UP TO 13 LETTERS RED | 1 |
| 27 | KH21OR | TARGON FEM.AIMING DEVICE/INSERTION INSTR | 1 |
| 28 | KH211R | TARGON ADAPTER F/FEMUR NAILS 8-11MM | 1 |
| 29 | KH213R | TARGON ADAPTER F/FEMUR NAILS 12-15MM | 1 |
| 30 | KH28OR | TARGON TIB.AIMING DEVICE/INSERTION INSTR | 1 |
| 31 | KH281R | TARGON ADAPTER F/TIBIA NAILS 8-11MM | 1 |
| 32 | KH283R | TARGON ADAPTER F/TIBIA NAILS 12-14MM | 1 |
| 33 | KH262R | TARGON ADAPTER SCREW F/TIBIA 8-11MM | 1 |
| 34 | KH264R | TARGON ADAPTER SCREW F/TIBIA 12-14MM | 1 |
| 35 | KH212R | TARGON ADAPTER SCREW F/FEMUR 8-11MM | 1 |
| 36 | KH214R | TARGON ADAPTER SCREW F/FEMUR 12-15MM | 1 |
| 37 | KH308R | TARGON EXTENSION SW10 F/ADAPTER SCREW | 1 |
| 38 | KH2O3R | TARGON TRAY F/KH202/KH248 | 1 |
| 39 | JK741 | BOTTOM FOR 3/4 CONTAINER HEIGHT:120MM | 1 |
| 40 | JF253R | 3/4 SIZE PERF BASKET 406X253X76MM | 1 |
| 41 | JP011 | PRIMELINE 3/4 LID RED | 1 |
| 42 | JF947 | SILICONE CUSHIONING PAD 3/4 SIZE | 1 |

**9 INSTRUMENT SET FOR HEMI ARTHOPLASTY**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
|  | NF612R | SILLAR TEMPLATE 39-47MM | 1 |
| 2 | NF613R | SILLAR TEMPLATE 49-57MM | 1 |
| 3 | NF604R | AUSTIN MOORE BOX OSTEOTOME | 1 |
| 4 | NF607R | RASP F/AUSTIN MOORE STANDARD STEM | 1 |
| 5 | NF608R | RASP F/AUSTIN MOORE SHORT STEM | 1 |

**10 INSTRUMENT SET FOR HUMERUS NAILING**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | KH161R | Guide pin 0 10.5 mm | 1 |
| 2 | KH16OR | Hollow reamer *0* 10.5 mm | 1 |
| 3 | KH159R | Guide pin *0* 8.5 mm | 1 |
| 4 | KH158R | Hollow reamer 0 8.5 mm | 1 |
| 5 | KH163R | Guide instrument including handle | 1 |
| 6 | KH398R | Screw length gauge | 1 |
| 7 | KH178R | Reamer 0 9 mm | 1 |
| 8 | KH177R | Reamer *0* 8 mm | 1 |
| 9 | KH186R | Drilling sleeve 0 2.7 mm | 1 |
| 10 | KH183R | Spiral drill 0 2.7 mm | 1 |
| 11 | KH184R | Spiral drill 0 3.5 mm | 1 |
| 12 | KH182R | Tissue protection sleeve | 1 |
| 13 | KH181R | Obturator | 1 |
| 14 | KH162R | Access reamer | 1 |
| 15 | KH19OR | Freehand drill 0 2.7 mm | 1 |
| 16 | KH166P | Targeting attachment | 1 |
| 17 | KH171R | Targeting bow, left | 1 |
| 18 | KH17OR | Targeting bow, right | 1 |
| 19 | KH165T | Targeting device base | 1 |
| 20 | KH167T | Attachment screw | 1 |
| 21 | KH172R | Nail adapter screw | 1 |
| 22 | KH173R | Compression screw | 1 |
| 23 | KH324R | TARGON FLAT/RING SPANNER SW10 | 1 |
| 24 | KH321R | Tightening sleeve | 1 |
| 25 | KH169R | Nail depth gauge | 1 |
| 26 | KH189R | Screwdriver | 1 |
| 27 | 1K342 | BOTTOM FOR 1/2 CONTAINER HEIGHT 135MM | 1 |
| 28 | JP023 | PRIMELINE 1/2 LID GREEN | 1 |
| 29 | 1F113R | 1/2 SIZE PERF BASKET 243X253X76MM | 1 |
| 30 | 1F945 | SILICONE CUSHIONING PAD 248X237MM | 1 |

**11 INSTRUMENT SET FOR HEMERUS PLATING**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | GC423R | TWIST DRILL D4.5MM L160/120MM SQUARE SHK | 2 |
| 2 | GC445R | SCREW TAP D4.5MM L130/30MM SQUARE SHANK | 2 |
| 3 | GC444R | SCREW TAP D4.5MM L130/70MM SQUARE SHANK | 2 |
| 4 | LS078S | TISSUE PROT.SLEEVE F/SCREW TAP D4.5MM | 1 |
| 5 | LS102R | AIMING DEVICE W/TIP F/DRILL D6.5MM | 1 |
| 6 | LSOO8R | SCRWHLDING SHEATH FITS GC355GC455LS002 | 1 |
| 7 | LS14OR | DRILL TEMPLATE F/NARROW SELF-COMPRESS.PL | 1 |
| 8 | Ls142R | DRILL TEMPLATE F/BROAD SELF-COMPRESS.PL. | 1 |
| 9 | LP031R | TRAY 1 F/LP030/LP130/LP230 | 1 |
| 10 | LS066R | COUNTERSINK F/D6.5MM W/T-HANDLE | 1 |
| 11 | GC405R | T-HANDLE W/SQUARE CHUCK | 1 |
| 12 | LSO60R | SCREW TAP F/D6.5MM W/T-HANDLE | 1 |
| 13 | LSO47R | DPTH GGETO SELECT SCREW LGTHD4.5/6.5MM | 1 |
| 14 | DB402R | MCCALL SCALER ANG BLUNT150MM | 1 |
| 15 | LS039R | FLAT SPANNER SW8.0 L160MM | 1 |
| 16 | LS081R | COMPRESSION DEVICE F/BONE PLATES | 1 |
| 17 | LS082R | HAND RATCHET F/COMPRESSION DEVICE LS081R | 1 |
| 18 | LS083R | FIXATION BOLT F/COMPRESS.DEVICE LS081R | 1 |
| 19 | LS210 | BENDING TEMPLATE F/STAND.PLATES 5 HOLES | 1 |
| 20 | LS212 | BENDING TEMPLATE F/STAND.PLATES 7 HOLES | 1 |
| 21 | LS214 | BENDING TEMPLATE F/STAND.PLATES 9 HOLES | 1 |
| 22 | LP032R | TRAY 2 F/LP030/LP130/LP230 | 1 |
| 23 | 1G645B | IDENT.LABELSINSCR.UP TO 13 LETTERSRED | 2 |
| 24 | JF501 | WRAPPING DRAPE F.JF489R 850X800MM | 2 |

**12 INSTRUMENT SET FOR K-WIRE**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | BF122R | FOERSTER SPONGE FCPS SERR STR 245MM | 2 |
| 2 | BF432R | BACKHAUS TOWEL HOLDING FORCEpS,110mm | 4 |
| 3 | BB084R | SCALPEL HDL.N0.4 | 1 |
| 4 | BC606R | METZENBAUM SCISSORS,CURVED,180MM | 1 |
| 5 | BC324R | OP.SCISSORS,STR.,BL/SH,145MM | I |
| 6 | BD537R | DISSECT.FORCEPS MED.WIDE 1X2T.145MM | 1 |
| 7 | BD027R | DISSECT.FORCEPS W/O T.MED.WIDE 145MM | 1 |
| 8 | Bm218R | CRILE-WOOD NEEDLE HOLDER 150MM | 1 |
| 9 | LX24OR | TRACTION BOW ADJUSTABLE 40-140X115MM | 1 |
| 10 | LX241R | TRACTION BOW ADJUSTABLE 60-220X175MM | 1 |
| 11 | LX225R | FLAT SPANNER SW14+17 | 1 |
| 12 | LX035S | KIRSCHNER BORING WIRE 1.5X310mm TROC/RD. | 1 |
| 13 | LX040S | KIRSCHNER WIRE TROCAR RND 310X2.OMM | 1 |
| 14 | LX045S | KIRSCHNER WIRE 310MM 2.5MM | 1 |
| 15 | LX171R | WIRE HOLDING FCpsCROSs-GROOvES170mm | 1 |
| 16 | LX157R | WIRE CT PLIERANG F/SOFT-3MM&HARD-2.2mM | 1 |

**13 INSTRUMENT SET FOR RADIUS AND ULNA NAILING**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | KH-099R | GAUGE F/KUENTSCHER INTRAMEDULLARY PINS | 1 |
| 2 | KH-301R | SCREW SCALE | 1 |
| 3 | KH-320S | GUIDE WIRE FOR TIBIA NAIL 2.5MM X 80CM | 1 |
| 4 | KH-304S | GUIDE WIRE FOR FEMUR NAIL 4MM X 90CM | 1 |
| 5 | KH-305P | TEFLON TUBE | 1 |
| 6 | KH-322R | SCREW DRIVER SW 4.5MM | 1 |
| 7 | KH-310R | KNOCKING-OUT INSTRUMENTS | 1 |
| 8 | KH-311R | KNOCK-OUT ADAPTER FOR NAIL 8-11MM | 1 |
| 9 | KH-312R | KNOCK-OUT ADAPTER FOR NAIL 12-15MM | 1 |
| 11 | KH-314R | TARGETING TROCAR F. DISTAL TARGETING INST, 3MM | 1 |
| 12 | KH-317R | OPENING REAMER | 1 |
| 13 | KH-049S | TISSUE PROTECTING PLATE | 1 |
| 14 | KH-318R | HOLLOW REAMER | 1 |
| 15 | KH-323R | GUIDE PIN | 1 |
| 16 | KH-113R | SLOTTED HAMMER FOR KNOCK-OUT INSTR | 1 |
| 17 | FL-066R | HAMMER 550G | 1 |
| 18 | LX-202S | HANDLE WITH THREE JAW CHUCK 0 6.3MM | 1 |
| 20 | KH-265R | TARGON CENTER PUNCH D6.OMM  TARGON CENTER PUNCH D4.5MM | 1 |
| 21 | KH-285R | 1 |
| 22 | KH-266S | DRILL SLEEVE 6MM | 1 |
| 23 | KH-271R | TISSUE PROTECTING SLEEVE | 1 |
| 24 | KH-267R | TWIST DRILL 3.5MM | 1 |
| 25 | KH-268R | TWIST DRILL 4.5MM | 1 |
| 26 | KH-201R | TARGON TRAY F/KH200 | 1 |
| 27 | JF-511 | WRAPPING CLOTH | 1 |
| 28 | JG-785B | INDENTIFICATION PLATE | 1 |
| 29 | KH-202 | TARGON AIMING DEVICES SET FEMUR/TIBIA | 1 |
| 30 | KH-210R | FEMUR TARGETING DEVICE | 1 |
| 31 | KH-211R | ADAPTER FOR FEMUR NAIL 8-11MM | 1 |
| 32 | KH-213R | ADAPTER FOR FEMUR NAIL 12-15MM | 1 |
| 33 | KH-280R | TIBIA TARGETING DEVICE | 1 |
| 34 | KH-281R | ADAPTER FOR TIBIA NAIL 8-11MM | 1 |
| 35 | KH-283R | ADAPTER FOR TIBIA NAIL 12-14MM | 1 |
| 36 | KH-262R | ADAPTER SCREW FOR TIBIA NAIL 8-11MM | 1 |
| 37 | KH-264R | ADAPTER SCREW FOR TIBIA NAIL 12-14MM | 1 |
| 38 | KH-212R | ADAPTER SCREW FOR FEMUR NAIL 8-11MM | 1 |
| 39 | KH-214R | ADAPTER SCREW FOR FEMUR NAIL 12-15MM | 1 |
| 40 | KH-324R | ups | 1 |
| 41 | KH-308R | TIGHTENING SLEEVE SW-10 | 1 |
| 42 | KH-203R | WIRE BASKET WITH STORAGE | 1 |
| 43 | TE-607 | PACKING TEMPLATE | 1 |
| 44 | JF-511 | WRAPPING CLOTH | 1 |
| 45 | JG-785B | IDENTIFICATION PLATE | 1 |
| 46 | TE821 | PACKING TEMPLATE (KH-1S1R) | 1 |
| 47 | TE824 | PACKING TEMPLATE (KH-153R) | 1 |
| 48 | JK 441 | storg | 1 |
| 49 | JP 001 | PRIMELINE 1/1 LID RED | 1 |

**14 INSTRUMENT SET FOR RADIUS AND ULNA PLATING**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | GC414R | TWIST DRILL D2.0MM L115/75MM SQUARE SHK. | 1 |
| 3 | GC416R | TWIST DRILL D2.7MM L115/75MM SQUARE SHK. | 1 |
| 4 | GC42OR | TWIST DRILL D3.5MM 1130/90MM SQUARE SHK. | 1 |
| 5 | GC432R | COUNTERSINK D2.0MM L130MM SQUARE SHANK | 1 |
|  | GC439R | SCREW TAP D2.7MM L130/37MM SQUARE SHANK | 1 |
| 7 | GC441R | SCREW TAP D3.SMM L130/55MM SQUARE SHANK | 1 |
| 8 | GC444R | SCREW TAP D4.0MM 1130/60MM SQUARE SHANK | 1 |
| 9 | GC404R | HANDLE W/SQUARE CHUCK | 1 |
| 10 | LS089R | DRILL GUIDEW/3&1HOLEF/2.OMM DIA DRILLS | 1 |
| 11 | LS091R | AIMING AND PLATE DRILL SOCKET F/D2.5MM | 1 |
| 12 | LS071S | TISSUE PROTECTOR SHEATHF/3.5MM DIA TAPS | 1 |
| 13 | LS097R | INSERT DRILL SOCKET OD3.5MM F/D2.7MM | 1 |
| 14 | LSO02R | SCREWDRIVR W/HARTPRS-HDL F/2.SMM | 1 |
| 15 | GC455R | SCREW DRIVER SW2.5 W/SQUARE SHANK | 1 |
| 16 | LS0O8R | SCRWHLDING SHEATH FITS GC355GC455LS002 | 1 |
| 17 | LSO44R | DEPTH GAUGETO SELECT SCREW LGTH6-40MM | 1 |
| 18 | LS12SR | DOUBLE DRILL SOCKET F/D2.5MM CPL. | 1 |
| 19 | FK317R | ELEVATOR HARTPRS-HDL CVD 3MM184MM | 1 |
| 20 | DB402R | MCCALL SCALER ANG BLUNT150MM | 1 |
| 21 | LS204 | BENDING IRON F/1.8MM SM PLATES 120MM | 1 |
| 22 | LS205R | BENDING FORCEPS F/SMALL PLATES 140MM | 1 |
| 23 | E0169R | SELF-CENTER.ECPSW/THREAD-FIX3/3/145MM | 1 |
| 24 | LS231R | HOLDING FORCEPS F/SMALL PLATES 135MM | 1 |
| 25 | FO115R | FINGER REPOSITION FCPSF/SM-FRAG135MM | 1 |
| 26 | 1=0123R | FORCEPS W/RCHT-FIX 145MM | 1 |
| 27 | EK117R | BONE ELEVATOR 6,0MM 160MM | 1 |
| 28 | FK118R | BONE ELEVATOR 8/2MM 159MM | 1 |
| 29 | FK119R | BONE ELEVATOR 2/15/125MM | 2 |
| 30 | GC461R | TWIST DRILL D1.1MM L65/28MM DENTAL SHANK | 1 |
| 31 | GC462R | TWIST DRILL D1.5MM L75/35MM DENTAL SHANK | 1 |
| 32 | GC464R | TWIST DRILL D2.0MM L90/58MM DENTAL SHANK | 1 |
| 33 | GC410R | TWIST DRILL D1.1MM L75/35MM SQUARE SHANK | 1 |
| 34 | GC412R | TWIST DRILL D1.5MM L100/60MM SQUARE SHK. | 1 |
| 35 | GC414R | TWIST DRILL D2.0MM L115/75MM SQUARE SHK. | 1 |
| 37 | GC416R | TWIST DRILL D2.7MM L115/75MM SQUARE SHK. | 1 |
| 38 | GC42OR | TWIST DRILL D3.5MM L130/90MM SQUARE SHK. | 1 |
| 39 | GC431R | COUNTERSINK D1.1MM L50MM DENTAL SHANK | 1 |
| 40 | GC432R | COUNTERSINK D2.0MM L130MM SQUARE SHANK | 1 |
| 41 | GC437R | SCREW TAP D1.5MM L50/23MM DENTAL SHANK | 2 |
| 42 | GC438R | SCREW TAP D2.0MM L54/28MM DENTAL SHANK | 2 |
| 43 | GC439R | SCREW TAP D2.7MM L130/37MM SQUARE SHANK | 1 |
| 44 | GC441R | SCREW TAP D3.5MM L130/55MM SQUARE SHANK | 1 |
| 45 | GC440R | SCREW TAP D3.SMM L130/70MM SQUARE SHANK | 1 |
| 46 | GC458R | SCREW DRIVER SW1.5 L5OMM DENTAL SHANK | 1 |
| 47 | LSOO7R | SCRWHLDING SHEATH FITS GC457GC458 | 1 |
| 48 | LSOO2R | SCREWDRIVR W/HARTPRS-HDL F/2.SMM | 1 |
| 49 | GC455R | SCREW DRIVER SW2.5 W/SQUARE SHANK | 1 |
| 50 | LS008 R | SCRWHLDING SHEATH FITS GC355GC455LS002 | 1 |
| 51 | GC407R | HANDLE W/CHUCK F/DENTAL SHANK | 1 |
| 52 | GC404R | HANDLE W/SQUARE CHUCK | 1 |
| 53 | LS084R | MINI DRILL SOCKET F/D1.1/1.5MM | 1 |
| 54 | LSO89R | DRILL GUIDEW/3&1HOLEF/2.0MM DIA DRILLS | 1 |
| 55 | LS091R | AIMING AND PLATE DRILL SOCKET F/D2.SMM | 1 |
| 56 | LS125R | DOUBLE DRILL SOCKET F/D2.5MM CPL. | 1 |
| 57 | LS097R | INSERT DRILL SOCKET OD3.SMM F/D2.7MM | 1 |
| 58 | LS071S | TISSUE PROTECTOR SHEATHF/3.5MM DIA TAPS | 1 |
| 59 | LSO42R | SCREW GAUGE F/D1.5/2.0MM | 1 |
| 60 | LSO44R | DEPTH GAUGETO SELECT SCREW LGTH6-40MM | 1 |
| 61 | FK317R | ELEVATOR HARTPRS-HDL CVD 3MM184MM | 1 |
| 62 | DB402R | MCCALL SCALER ANG BLUNT150MM | 1 |
| 63 | LS204 | BENDING IRON F/1.8MM SM PLATES 120MM | 1 |
| 64 | LS205R | BENDING FORCEPS F/SMALL PLATES 140MM | 1 |
| 65 | F0169R | SELF-CENTER.FCPSW/THREAD-FIX3/3/145MM | 1 |
| 66 | LS231R | HOLDING FORCEPS F/SMALL PLATES 135MM | 1 |
| 67 | F0115R | FINGER REPOSITION FCPSF/SM FRAG135MM | 1 |
| 68 | FO123R | FORCEPS W/RCHT-FIX 140MM | 1 |
| 69 | FK117R | BONE ELEVATOR 6,0MM 160MM | 1 |
| 70 | FK118R | BONE ELEVATOR 8/2MM 159MM | 1 |
| 71 | FK119R | BONE ELEVATOR 2/15/125MM | 2 |
| 72 | JK442 | BOTTOM FOR 1/1 CONTAINER HEIGHT:135MM | 1 |
| 73 | JP004 | PRIMELINE 1/1 LID OCHER | 1 |
| 74 | JF223R | 1/1 SIZE PERF BASKET 540X253X76MM | 1 |
| 75 | JF949 | SILICONE CUSHIONING PAD 1/1 SIZE | 1 |

**15 INSTRUMENT SET FOR TIBIAL NAILING**

|  |  |
| --- | --- |
|  | 11 |

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | KHOO1R | REAMER (AWL) F/TIBIA D8MM L260MM | 1 |
| 2 | LX203R | T-HANDLE L16OMM W/JACOBS CHUCK >D6.5MM | 1 |
| 3 | FF871R | ENGINEERS WRENCH FOR FF87OR AND FF872R | 1 |
| 4 | KH099R | GAUGE FOR INTRAMEDULLARY PINS | 1 |
| 5 | KH301R | TARGON SCREW GAUGE F/DRILL SLEEVE | 1 |
| 6 | KH320S | TARGON GUIDE PIN D2.5MM L800MM | 1 |
| 7 | KH310R | KNOCKING-OUT INSTRUMENT | 1 |
| 8 | KH311R | TARGON KNOCK OUT ADAPTOR F.NAIL D:8-11 | 1 |
| 9 | KH312R | TARGON KNOCK-OUT INSTRUMENT 12-16MM | 1 |
| 10 | KH314R | TARGON AIMING TROCAR D3.OMM F/DIST.AIM. | 1 |
| 11 | KH317R | TARGON REAMER F/OPENING THE MEDULL.CANAL | 1 |
| 12 | KH049S | TISSUE PROTECTIVE PLATE | 1 |
| 13 | KH318R | TARGON TREPHINE OD12.5MM W/HANDLE | 1 |
| 14 | KH323R | TARGON GUIDE PIN W/DISK F/KH318R | 1 |
| 15 | KH113R | SLOTTED MALLET | 1 |
| 16 | FLO66R | OMBREDANNE MALLET 520GR.D:40/240MM | 1 |
| 17 | LX202S | T-HANDLE 1.150MM W/JACOBS CHUCK >D6.5MM | 1 |
| 18 | KH265R | TARGON CENTER PUNCH D6.OMM | 1 |
| 19 | KH285R | TARGON CENTER PUNCH D4.5MM | 1 |
| 20 | KH266S | TARGON DRILL SLEEVE F/D6.OMM | 1 |
| 21 | KH271R | TARGON TISSUE PROTECTION SLEEVE | 1 |
| 22 | KH267R | TARGON TWIST DRILL D3.5MM F/LOCKING SCRW | 1 |
| 23 | KH268R | TARGON TWIST DRILL D4.5MM F/LOCKING SCRW | 1 |
| 24 | KH2O1R | TARGON TRAY F/KH200 | 1 |
| 25 | 1F511 | CLOTH F.LINING DEEP CONTAINERS | 1 |
| 26 | IG785B | IDENT.LABEL UP TO 13 LETTERS RED | 1 |
| 27 | JK342 | BOTTOM FOR 1/2 CONTAINER HEIGHT 135MM | 1 |
| 28 | JP025 | PRIMELINE 1/2 LID GRAY | 1 |
| 29 | 1F113R | 1/2 SIZE PERF BASKET 243X253X76MM | 1 |
| 30 | 1E945 | SILICONE CUSHIONING PAD 248X237MM | I |

|  |  |  |  |
| --- | --- | --- | --- |
| **16. INSTRUMENT SET FOR TIBIAL PLATING** | | | |
| 16 INSTRUMENT SET FOR TIBIAL PLATINGS.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | GC414R | TWIST DRILL D2.OMM L115/75MM SQUARE SHK. | 2 |
| 2 | GC419R | TWIST DRILL D3.2MM L160/120MM SQUARE SHK | 3 |
| 3 | GC423R | TWIST DRILL D4.5MM L160/120MM SQUARE SHK | 2 |
| 4 | GC44SR | SCREW TAP D4.5MM L180/90MM SQUARE SHANK | 2 |
| 5 | GC444R | SCREW TAP D4.5MM L130/70MM SQUARE SHANK | 2 |
| 6 | LS089R | DRILL GUIDEW/3&1HOLEF/2.OMM DIA DRILLS | 1 |
| 7 | LS071S | TISSUE PROTECTOR SHEATHF/3.5MM DIA TAPS | 1 |
| 8 | LS076S | INSERT DRILL SOCKET OD4.5MM F/D3.2MM | 1 |
| 9 | LS078S | TISSUE PROT.SLEEVE F/SCREW TAP D4.5MM | 1 |
| 10 | LS102R | AIMING DEVICE W/TIP F/DRILL D6.5MM | 1 |
| 11 | LSOO8R | SCRWHLDING SHEATH FITS GC355GC455LS002 | 1 |
| 12 | GC454R | SCREW DRIVER SW3.5 W/SQUARE SHANK | 1 |
| 13 | LS114R | PLATE DRILL SOCKET F/D3.2MM UL4OMM | 1 |
| 14 | LS13OR | COMPR.DRILL SOCKET F/D3.2MM SHORT W/HDL | 1 |
| 15 | LS128R | NEUTR.DRILL SOCKET F/D3.2MM SHORT W/HDL | 1 |
| 16 | LS14OR | DRILL TEMPLATE F/NARROW SELF-COMPRESS.PL | 1 |
| 17 | LS142R | DRILL TEMPLATE F/BROAD SELF-COMPRESS.PL. | 1 |
| 18 | LPO31R | TRAY 1 F/LP030/LP130/LP230 | 1 |
| 19 | LS066R | COUNTERSINK F/D6.5MM W/T-HANDLE | 1 |
| 20 | GC405R | T-HANDLE W/SQUARE CHUCK | 1 |
| 21 | LSO6OR | SCREW TAP F/D6.SMM W/T-HANDLE | 1 |
| 22 | LSOO2R | SCREWDRIVR W/HARTPRS-HDL F/2.5MM | 1 |
| 23 | LS003R | SCREWDRIVER W/HARTPRS-HDL F/3.5MM200MM | 1 |
| 24 | LSO47R | DPTH GGETO SELECT SCREW LGTHD4.5/6.5MM | 1 |
| 25 | DB402R | MCCALL SCALER ANG BLUNT150MM | 1 |
| 26 | LS039R | FLAT SPANNER SW8.0 L160MM | 1 |
| 27 | LS081R | COMPRESSION DEVICE F/BONE PLATES | 1 |
| 28 | LS082R | HAND RATCHET F/COMPRESSION DEVICE LS081R | 1 |
| 29 | LS083R | FIXATION BOLT F/COMPRESS.DEVICE LS081R | 1 |
| 30 | LS210 | BENDING TEMPLATE F/STAND.PLATES 5 HOLES | 1 |
| 31 | L5212 | BENDING TEMPLATE F/STAND.PLATES 7 HOLES | 1 |
| 32 | LS214 | BENDING TEMPLATE F/STAND.PLATES 9 HOLES | 1 |
| 33 | LP032R | TRAY 2 F/LP030/LP130/LP230 | 1 |
| 34 | JG645B | IDENT.LABELSINSCR.UP TO 13 LETTERSRED | 2 |
| 35 | \_11501 | WRAPPING DRAPE F.JF489R 850X800MM | 2 |

**17 INSTRUMENT SET FOR TOTAL HIP ARTHOPLASTY**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | ITEM CODE | DESCRIPTION | QTY |
| 1 | BF122R | FOERSTER SPONGE HOLD.FORC.,SERRAT.JAWS | 2 |
| 2 | BF432R | BACKHAUS TOWEL HOLDING FORCEPS,110MM | 8 |
| 3 | BB084R | SCALPEL HDL.NO.4 | 1 |
| 4 | BB085R | SCALPEL HANDLE NO.4L | 1 |
| 5 | BC557R | MAYO DISSECT.SCISSORS CVD.170MM | 1 |
| 6 | BC607R | METZENBAUM DISSECT.SCISSORS CVD.200MM | 1 |
| 7 | BC615R | NELSON-METZENBAUM SCISSORS CVD 229MM | 1 |
| 8 | BC324R | OP.SCISSORS,STR.,BL/SH,145MM | 1 |
| 9 | BC595R | RESANO CARTILAGE SCISSORS ANG 250MM | 1 |
| 10 | BD557R | TISSUE FORCEPS,STD.PATT.,1X2 T.,145MM | 1 |
| 11 | BD561R | DISSECT.FORCEPS STD.PATT.1X2T.200MM | 2 |
| 12 | BD671R | WAUGH DISSECT.FORCEPS 1X2T.200MM | 1 |
| 13 | BD051SR | DISSECT. FORCEPS W/O T.STD.PATT.200MM | 1 |
| 14 | BD052R | STANDARD FORCEPS SERF; 250MM | 1 |
| 15 | BH176R | CRILE ARTERY FORCEPS 1X2T.STR.160MM | 4 |
| 16 | BH166R | CRILE ARTERY FORCEPS STR.160MM | 2 |
| 17 | BH121R | HALSTED MOSQUITO FORCEPS 1X2T.CVD.125MM | 2 |
| 18 | BH111R | HALSTED MOSQUITO FORCEPS,CURVED,125MM | 2 |
| 19 | BH201R | ADSON ARTERY FORCEPS CVD.185MM | 2 |
| 20 | BJ023R | OVERHOLT-GEISS SUTURE FCPS #3 CVD229MM | 1 |
| 21 | BM235R | HEGAR-MAYO NEEDLE HOLDER,150MM | 1 |
| 22 | BM237R | HEGAR-MAYO NEEDLE HOLDER 200MM | 1 |
| 23 | BM249R | HEGAR NEEDLE HOLDER W/GROOVE 205MM | 1 |
| 24 | BT021R | FARABEUF RTRCTRS23X16/28X16-20X16/24X16 | 1 |
| 25 | BT266R | KOCHER RETR 6-PRGSEMI-S16X30222MM | 2 |
| 26 | BT279R | KOERTE RETRAC. 8-PRONG SHARP242MM | 2 |
| 27 | BT286R | ISRAEL RETR 6-PRONGBLUNT53X62MM253MM | 2 |
| 28 | BT24OR | VOLKMANN RETRACTOR1-PRONGSHARP222MM | 1 |
| 29 | BT370R | KOCHER RETRACTOR 60X2OMM | 2 |
| 30 | FK166R | BONE ELEVATOR 17MM SHARP 242MM | 2 |
| 31 | FK171R | BONE ELEVATOR 17MM SQ242MM | 2 |
| 32 | FK174R | VERBRUGGE-MUELLER RETRACTOR44MM |  |
| 33 | FK17513 | VERBRUGGE-MUELLER RETRACTOR 65MM | 1 |
| 34 | IK177R | SCHUMACHER BONE RETR 35X18MM WIDE 290MM |  |
| 35 | FK169R | HOHMANN BONE ELEVATOR CVD24MM273MM | 1 |
| 36 | FLO66R | OMBREDANNE MALLET 550G 40MM242MM | 1 |
| 37 | FF915R | CASPAR GRAFT POSITIONING TAMP - 8MM DIA |  |
| 38 | FLO9OR | BONE-GRAFT TAMPER 12MM DIA 200MM |  |
| 39 | FL659R | LAMBOTTE OSTEOTOME 30MM 247MM |  |
| 40 | FL656R | LAMBOTTE OSTEOTOME 20MM 247MM |  |
| 41 | ND109R | LEXER OSTEOTOME ANG 15MM 275MM |  |
| 42 | ND108R | LEXER OSTEOTOME ANG 10MM 273MM | 1 |
| 43 | ND107R | MINI-ALIF OSTEOTOME STR 15MM | 1 |
| 44 | ND115R | GOUGE 16MM WIDE CVD. | 1 |
| 45 | ND118R | GOUGE SWAN-NECK 25MM 286MM | 1 |
| 46 | ND018R | BONE CURETTE 37X30MM 325MM | 1 |
| 47 | ER102R | SIMON UTERINE SCOOP 8.5MM242MM | I |
| 48 | ER104R | SIMON UTERINE SCOOP 11.5MM 242MM | 1 |
| 49 | ND060 | IMPACTION INSTRUMENT F/HIP PROSTHESES | 1 |
| 50 | NDOO7R | LUXATION LEVER F/DISLOCAT.THE FEM.HEAD | 1 |
| 51 | NDOOSR | DRILL F/EXTRACTION OF THE FEMORAL HEAD | 1 |
| 52 | F0808R | BIRCHER-GANSKE CARTILAGE FRCPSCVD203MM | 1 |
| 53 | FK358R | LAMBOTTE RIB RASPATORY 20MM 216MM | 1 |
| 54 | FK387R | SEMB ELEVATOR BLUNT 15MM 232MM | 1 |
| 55 | FK353R | WAGNER ELEVATORHARTPRS-HDL17MM330MM | 1 |
| 56 | FK131R | LANGENBECK ELEVATOR 10/195MM | 1 |
| 57 | FR125R | PERTHES REAMER 215MM | 1 |
| 58 | F013OR | FERGUSSON BONE-HOLDING FORCEP205MM12MM | 1 |
| 59 | F0461R | LUER BONE RONGEUR CVD 175MM | 1 |
| 60 | JG506R | KIDNEY TRAY STAINLESS STEEL 250MM | 1 |
| 61 | JG522R | LABORATORY DISH 0.16 L | I |

### New KPK Logo

**Government of Khyber Pakhtunkhwa**

**Health Department**

**DETAILED SPECIFICATIONS**

**For**

**INSTRUMENTS AND GENERAL ITEMS**

March 2017

38. INCINERATOR

##### TECHNICAL DESCRIPTION

(CE76/2000)

1. RUNNING PRINCIPAL
2. COMBUSTION CHAMBER OF WASTE
3. SECONDARY COMBUSTION CHAMBER
4. CHIMNEY
5. ELECTRIC CONTROL AND REGULATION PANEL
6. TECHNICAL FEATURES
7. SPARE PARTS FOR FIRST URGENT MEASURE
8. FURNITURE LIMITS
9. GUARANTEE
10. Optional

# RUNNING PRINCIPLE

**Supply and the installation of an incinerator for the destruction of hospital and medical waste of** 100-120 kg/h.

The incinerator Should **continuous working system, not batch system to increase the capacity of incinerator and combustion efficiency.**

The lower calorific power (L.C.P) of this waste will be **average 3,500 kcal/kg**.

It is recalled that this incinerator must be able to work according to variable operating rages up to **8-12h/24**.

The temperature should modulated in varying flow and percentage in oxygen. Combustion gas is re-burned in the post-combustion chamber at a temperature of **min. 1,100 °C.**

The control panel must be fitted with a functional synoptic view showing the operating situation of the whole installation.

You should provided an easy accessibility to all equipment and sets of easy and rapid measure points in order to analyse rejected gas (such as dusts, carbon monoxide , HCL, T°...) by accepted organisms.

The incinerator should be designed as a packaged unit, having electrical connection pre-wired and fuel pipes in place, making installation easier at site. **SPECIAL COMBUSTION CHAMBER**

# FOR HOSPITAL WASTE

The combustion chamber of incinerator should adequate capacity to handle a consignment of **100-120 kg of hospital and medical waste.**

The inside of combustion chamber should be a **rectangular shape**.

The size of the waste charging door should be **70 x 70 cm** in order to well introduce waste into the combustion chamber.

The first phase of the incineration should be a combustion without air comparable to a **gasification**.

The combustion in a reduced atmosphere produces a **combustion gas rich in CO** and not in C02. This is a considerable advantage for the post-combustion of gases - CO is combustible. The process runs in a complete self-combustion and doesn't need any other combustible, except for the preheating or the starting, if waste has a lower calorific power (L.C.P) to 1,500 kcal/kg.

The lack of air in this first phase allows to accept a heterogeneous calorific power of waste (1,000 to 6000 kcal/kg) without the risk of thermal overloading of the furnace, the energy recuperation equipment and the post-combustion chamber. This creates a supplementary security for the treatment of waste having variable calorific power from one delivery to another. This allows a loading in bulk without any sorting and mixing.

The combustion chamber is in **thick sheet steel (3 to 10 mm)** especially elaborated.

The insulation of the combustion chamber should composed of refractory bricks having high content aluminum and isolation bricks in order to assure a minimum temperature on the outside sheet metal.

**Must Required the Composition of the refractory lining:**

**Refractory bricks** :

. Thickness : **110 mm**

. Maximum temperature : 1,400 °C

. Nature : 42% of Al203

* **Insulator** :

. Thickness : **80 mm**

. Maximum temperature : 1,000 °C

. Nature : Calcium silicate

**Combustion burner :**

The combustion chamber should be composed of **one hearth of combustion**.

The combustion hearth should be fitted with **one burner** enabling to assure a correct combustion temperature for the complete destruction of the waste.

Burner should be mono-bloc casing type with horizontal flame, ignition and electronic ignition safety, permanent ventilation, control electrovalve and insulation valve.

**Air Supply Fan:**

Electro-ventilator distributes the **primary and secondary air** in the incinerator.

This combustion hearth should be equipped with **primary air nozzles (8 nozzles)** to assure the perfect combustion.

The air injection should be done with a **high pressure of 220 mm H20**.

The pressure allows to **pierce the burning waste bulk and to avoid the unburned ratio**.

The adjustment of air rates should carried out through **valves and servomotor** according to the **automatic cycle controls**.

**POST-COMBUSTION CHAMBER**

The second phase of incineration should a **post-combustion of the flue gas** produced by the combustion chamber **at high temperature.**

The post-combustion chamber should be situated **on the top of the combustion chamber** so as to re-burn easily the flue gas.

The **high content of CO in these gases should**  permits a re-lighting by simple air injection with the post-combustion burners. This processing is therefore especially well adapted for a treatment on the site.

The post-combustion of gases should takes place at a temperature of **1,100°C** during 2 seconds. The cylindrical form of the post-combustion chamber, combined with **Vortex effect in the secondary and tertiary air injection**, which have must particularly **designed and patented** , enabling to assure the achievement of very low hydrocarbon refuse. This should contributes also to the **limitation of soot (carbon)** in the downstream and of the quantity of solid to be treated in the dust remover.

The re-light of the combustion by secondary air with the post-combustion burners and the obtained high temperature of the flame allow to finish the combustion of fine carbonized particles. So, there should be small quantity of unburned flying ashes in the downstream of the furnace.

The design of two post-combustion burners must similar to the combustion burners.

The post-combustion chamber should fitted with inspection doors so that a periodical cleaning of dust can be achieved.

The post-combustion should lined with high thermal insulating materials with a **thickness of 150 mm of refractory bricks and 85 mm of insulator.**

## CHIMNEY

The inside of the chimney should lined with refractory like the post-combustion chamber with a **thickness of 120 mm of refractory bricks and 30 mm of insulator.**

The height of chimney must **8 m** from the ground putting the incinerator and its interior diameter is **500 mm.**

The chimney should fitted with sampling port for the collection and measuring of gas samples, the sampling port should be of **300 mm x 100 mm** in accordance with the **European standard** provided with a cover to be opened and closed when necessary without affecting the chimney’s function. The sampling port should be of proper direction for easy usage,

## ELECTRIC CONTROL AND REGULATION PANEL

All installation should be confirm with regulations in force.

Power supply must 380 v, three phase.

The installed materials should be well-known marks **Schneider, LEGRAND**, functioning at the frequencies of 50/60 Hz.

Dust-tight control box should contain contains :

One circuit breaker switch for each engine (ventilator and burners).

Four timers with adjustable delay time for controlling each engine (ventilator and burners)

One digital display regulator for the combustion temperature.

One digital display regulator for the post-combustion temperature.

Control box in compliance with current standards.

# TECHNICAL FEATURES

|  |  |
| --- | --- |
| **Designation** | **Required** |
| Operation time | 8-12 H |
| Capacity | 100-120 kg/h |
| Operating method | Continuous loading system |
| Average L.C.P (Lower Calorific Power) of waste | 3 500 kcal/kg |
| Volume of combustion chamber | 2 m3 |
| Temperatures  \* Combustion  \* Post-combustion | 900 °C  1,100 °C |
| Burners power  Combustion  Post-combustion | 300 kW  300 kW |
| Installed electrical power | 4 kW |
| Premises ventilation  \* High  \* Low | 8 dm2  12 dm2 |
| Gases dwell time in the post- combustion chamber at 1100 °C | 2 seconds |
| Set weight | 8 tons |

## VII- FURNITURES LIMITS

**Required additionally:**

1. Opening in the roof for the passing of the chimney with tight connection

2. High and low ventilation

3. Connection of electric to our control panel (three phases 380 Volts + neutral + earth)/50Hz

4. Connection of fuel oil pipes to our burners

5. Semi-automatic-pneumatic waste loader

6. Three years accessories KIT.

7. Wet Scrubber for the incinerator

1. The validity of Purchase Order will start from its next date of issuance to the concerned Supplier. [↑](#footnote-ref-1)
2. As above [↑](#footnote-ref-2)
3. In case a bidder is bidding for only some of the items mentioned in the list Technical Specifications , he is advised to take note of ITB Clauses 7 & 15.6 [↑](#footnote-ref-3)
4. The Serial No. of the item as mentioned in the Technical Specifications. [↑](#footnote-ref-4)
5. The Attachment must be made with the Bid Cover Sheet. [↑](#footnote-ref-5)
6. Bidders should only initial against those requirements that they are attaching with the form 3(a). In case they do not have any document to attach the corresponding cell in column 2 should be left blank. [↑](#footnote-ref-6)
7. Bidders are required to mention the exact page number of relevant document placed in the Bid. [↑](#footnote-ref-7)
8. Bidders are advised to attach all Supporting documents with this form in the order of the requirement as mentioned in column 1. [↑](#footnote-ref-8)
9. In case of Sole Agent [↑](#footnote-ref-9)
10. Bidders are required to furnish a certificate to the effect that their firm is free from child labor and having standard child labor free policy [↑](#footnote-ref-10)
11. This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid. [↑](#footnote-ref-11)
12. Bidders may use additional Sheets if required. [↑](#footnote-ref-12)
13. All certificates are to be attached with this form. [↑](#footnote-ref-13)
14. If a Bidder does not wish to offer an item wise discount but intends to offer an overall discount to its quoted price that should be mentioned here. [↑](#footnote-ref-14)