



**AYUB TEACHING HOSPITAL
ABBOTTABAD**

Standard Bidding Document

For

**PROCUREMENT OF ELECTRO MEDICAL
EQUIPMENT**

Under

National Competitive Bidding (NCB)

FOR THE YEAR 2026-27

ADVERTISEMENT

SPECIAL INSTRUCTION FOR PREPARATION OF TECHNICAL BIDS

- ▶ ***S. No.1, The contract/firm should be Registered with income tax/ sale tax & should be on ATL maintained by the bid must be in booklet form with proper page marking.***

- ▶ ***S. No.2, The bid must be in booklet form with proper page marking.***

- ▶ ***S. No.3, The Mandatory documents must be attached in sequence duly flagged.***

- ▶ ***S. No.4, The documents required for Technical Evaluation marks may also be attached after the mandatory documents according to relevant LOT available in bedding documents duly flagged.***

- ▶ ***S. No.5. The bids without booklets & don't fulfilled the above conditions will not be consider for Technical Evaluation.***

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Bid Data Sheet

ITB Ref	Description	Detail																
ITB Clause 1.1	Bid reference number	Ayub Teaching Hospital- Abbottabad Tender FY2026-27																
ITB Clause 2.1	Name of Client & source of funds	MTI/ ATH/.																
ITB Clause 3.1	Name of Goods	Electro Medical Equipment																
ITB Clause 3.1	Equipment Sale License	NA																
ITB Clause 6.1	Bidding Documents available on EPADS and ATH Website																	
ITB Clause 7	Bidding for Selective Items	Yes																
ITB Clause 9.1	Bidding procedure	Single Stage Two Envelops Procedure																
ITB Clause 9.2	Method determining the Lowest Evaluated Responsive Bidder	<u>MEDICAL & TECHNICAL ITEMS (Electro medical Equipment etc.)</u>																
ITB Clause 11.1	Clarification(s) on Bidding Documents	Ayub Teaching Hospital Abbottabad																
ITB Clause 12	Pre-Bid meeting date, time and venue	Ayub Teaching Hospital Abbottabad																
ITB Clause 13	Language of bid	English																
ITB Clause 14.2	Specific Description of Goods in the Bidding Documents	Quotation shall be submitted for Lot-I as mentioned of standard bidding documents.																
ITB Clause 15.4	Bid Price	Bid Price shall be inclusive of all duties and taxes as applicable by the Govt.																
ITB Clause 16	Currency of Bid	PKR																
ITB Clause 18.1	Name of the Bid Form(s)	Primary Documents Bid Cover sheet <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Bid Form-1</td> <td>Letter of Attention</td> </tr> <tr> <td>Bid Form-2</td> <td>Affidavit</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bid Form-3 (A) Eligibility of Bidders & Goods</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bid Form-3 (B) Manufacturer's Authorization</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bid Form-4 Firm's Past performance</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bid Form-5 Price schedule</td> </tr> <tr> <td colspan="2" style="text-align: center;">Bid Form -6 Performance Guarantee</td> </tr> <tr> <td colspan="2" style="text-align: center;">Failure to submit Bid Forms shall render the bidders non-responsive.</td> </tr> </table>	Bid Form-1	Letter of Attention	Bid Form-2	Affidavit	Bid Form-3 (A) Eligibility of 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		Failure to submit Bid Forms shall render the bidders non-responsive.	
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ITB Clause 18.2	Technical Bid Proforma's	Sample Bid Evaluation Proforma: In the relevant lot
ITB Clause 20	Amount of Bid Security / Earnest Money	The Bidder shall furnish, as part of its bid, a Bid Security equal to 2% of the bid price in the name of Hospital Director, ATH, Abbottabad.
ITB Clause 21	Bid validity period	90-days from the opening date
ITB Clause 25	Last date and time for uploading of bidding document on E-PADS	As per advertisement
ITB Clause 28	Date, time and venue of opening of technical bids	As per advertisement
ITB Clause 41	Duration of Contract	For the Financial Year 2026-27
ITB Clause 44	Performance Bank Guaranty / Performance Security	The Performance Security shall be 10% of the total contract price quoted and shall be submitted in the name of Hospital Director AYUB Teaching Hospital Abbottabad

Primary Documents to be submitted for Firm Evaluation Documentation:

1. Bid Cover sheet.
2. Bid form letter of attention
3. Bid form to affidavit.
4. Bid form 03-A eligibility of bidder & goods
5. Bid form 03-B manufacturer authorization if eligible.
6. Bid form 04 firm past performance.
7. Bid form 05- price schedule. (Financial Bid).
8. Bid for 06- performance guarantee.
9. Certificate to the effect that the requisite bid security equal to 2% of the bid price in form bank draft or CDR is enclosed in the financial bid.
10. Non submission primary documents duly signed & stamps shall render the non-responsive.

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Instructions to Bidders (ITB)

1. Scope of Bid	1.1	The Ayub Teaching Hospital Abbottabad invites bids for supply Of items relating to Article Store Department, to meet the requirement of Ayub Teaching Hospital Abbottabad with Bid Reference Number for the procurement activity as Mentioned in Bid Data Sheet (BDS) .
2. Source of Funds	2.1	The client as mentioned in the Bid Data Sheet (BDS)
3. Eligible Bidders.	3.1	According to Advertisement Notice.
	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 Equipment Sale 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 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.

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4. Corruption and Fraud	4.1	<p>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 dutyll</p>
	4.2	<p>Indulgence in corruption and Fraudulent practice rejection of bids, cancellation of contracts, the barring of blacklisting of the bidders, for stated or indefinite period of time.</p>
5. Eligible Goods and Services.	5.1	<p>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 —Goodsll includes any goods that are the subject of this Invitation for Bids and (b) the term —Servicesll includes related ancillary services such as transportation, installation, insurance, port releases, after sale service etc.</p>
6. Cost of Bidding.	6.1	<p>The Bidding Documents will be available from the date of publishing of the IFB and will be available upto 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.</p>
7. Bidding for Selective Items.	7.1	<p>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 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.</p>
8. Bidding		<p>The Bidding procedure shall be governed by the Procurement of</p>

Procedure / Governing Rules.		Rules KAPPRA rules 2014
8.1		The bidding procedure is governed by Rule 06 (2) KPRA 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
8.2		<p>The bidding procedure prescribed in the Bid Data Sheet above is explained below:</p> <p>Single Stage Two Envelops Procedure: The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the Technical bid and the financial bid;</p> <ol style="list-style-type: none"> i) the envelopes shall be marked as —TECHNICAL BID and —FINANCIAL BID in bold and legible letters to avoid confusion; ii) Initially, only the envelope marked —TECHNICAL BID shall be opened. Technical bid contains requirements for the responsiveness and technical and financial eligibility for the firm and its quoted product. The extent of compliance to the stated requirements will determine that the firm and its product qualify technically before the opening of the financial bids. iii) the envelope marked as —FINANCIAL BID shall be retained in the custody of Procuring Agency without being opened; iv) the Procuring Agency shall evaluate the technical proposal without reference to the price and may reject any bid which does not conform to the specified requirements; v) during the technical evaluation no amendments in the technical bid shall be permitted; vi) the financial bids of only the technically qualified bids shall be opened publicly by the Procuring Entity at a time, date and venue to be announced and communicated to the Bidders in advance; vii) The financial bids found technically non-qualified or rendered dis-qualified shall be returned un-opened to the respective Bidders; and <p>The bid found to be the lowest evaluated responsive bid as per the Technical & Financial Evaluation Criteria shall be accepted for contract award.</p>

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10. Contents of the Standard Bidding Documents	10.1	<p>The goods required, applicable bidding procedures, and Contract terms & conditions are prescribed in the Standard Bidding Documents. Contents of the Standard Bidding Documents include:</p> <ul style="list-style-type: none"> a) Invitation for Bids (IFB) b) Instructions To the Bidders (ITB) c) General Conditions of Contract (GCC) d) Special Conditions of Contract (SCC) e) Technical & Financial Evaluation Criteria f) List of Required items/Equipment/ films g) Technical Specifications of the intended goods h) Sample Size & Ancillary Services i) Schedule of Requirements j) Distribution Plan for Health Institutions k) Sample Forms, Schedules & contract template
	10.2	<p>In case of any discrepancy between the contents of the Invitation for Bid (IFB) and those of the Standard Bidding Documents listed in 10.1 above, the Standard Bidding Documents shall take Precedence.</p>
	10.3	<p>The Bidder is expected to examine all instructions, forms, terms, and specifications in the Invitation For Bids (IFB) and the Standard Bidding Documents (SBDs). Failure to furnish all information required by the Standard Bidding Documents or to submit a bid not substantially responsive to the Bidding Document in every respect shall be at the bidder risk and may result in the rejection of its bid.</p>
11. Clarification(s) on Standard Bidding Documents	11.1	<p>A prospective Bidder requiring any clarification(s) on the Bidding Documents may notify the Procuring Agency in a Pre-Bid meeting or 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. To respond to all such queries, the Procuring Entity will hold a Pre-Bid Meeting under Rule 17 of the NWFP Procurement of Goods, Works and Services Rules 2003, on a date specified in the Bid Data Sheet (BDS) as explained in ITB Clause 23.</p>
	12.1	<p>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, Weather in a Pre-Bid Meeting held on a 16,17&18 January 2019 date specified in the Bid Data Sheet (BDS) or through official</p>
12. Amendment(s) to the Bidding Documents		

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		communication to the prospective bidders, may modify the Standard Bidding Documents by amendment(s).
	12.2	All prospective Bidders who have received the Standard Bidding Documents shall be notified of the amendment(s) in writing through Post, e-mail or fax or advertisement in two national dailies. The said amendment(s) shall be binding on them.
	12.3	In order to allow prospective bidders reasonable time for taking the amendments into account in preparing their bids, the procuring agency at its discretion may extend the deadline for submission 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 the Bid Forms of these Standard Bidding Documents 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 V of these Standard Bidding Documents.
	14.2	The Bidder shall complete the Bid Forms and an appropriate Price Schedule furnished in these Standard 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 these Standard Bidding Documents the unit prices and total bid Package price of the goods where applicable, it proposes to supply under the Contract.
	15.2	Form prescribed for quoting of prices is to be filled in very Carefully, preferably typed. Every page of these Standard Bidding Documents is to be signed and stamped at the bottom by the Bidder. No alteration of any Term or Condition is allowed.
	15.3	The Bidder should quote the prices of goods according to the technical specifications as provided in Part-Two: Section III of these Standard Bidding Documents. The technical specifications of goods, different from the required specifications, shall be rejected out rightly.
	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. However the ATH is exempted for payment of sales tax.
	15.5	The benefit of exemption from or reduction in the taxes and duties Shall be passed on to the Procuring Agency.

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	15.6	Prices offered should be for the entire quantity of an item demanded in the Schedule of Requirement or in a lot; partial Quantity offers within a lot shall straightaway be rejected. Conditional, alternate or provisional offer shall also render the bid as non-responsive. No negotiation on price is allowed.
	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. The bidder needs to consider including any probable price fluctuation or expected inflation in the quoted price before the bid submission.
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 items at his own expenses
18. Documentation on Eligibility of Bidders.	18.1	Bidder shall furnish, as part of his bid, the Bid Form(s) as primary document (s) provided in Part-Two: Section IV of the Standard Bidding Documents and as specified in the Bid Data Sheet (BDS) , establishing Bidder's eligibility to bid and his qualifications to perform the Contract if his bid is accepted.
	18.2	Bid Evaluation Proformas provided as Annexures in Part-Two: Section IV of these Standard Bidding Documents may be filled and submitted by the bidders to facilitate the Procuring Entity for the preliminary evaluation of their Technical Bids if specified in Bid data Sheet (BDS) .
	18.3	The Bidder shall furnish, as part of his technical bid, the Bid Forms provided in Part-Two: Section IV of these Standard Bidding Documents as specified in the Bid Data Sheet (BDS) , establishing his substantial responsiveness required for establishing his eligibility for further evaluation of his technical bid as defined under ITB Clause 3 of these Standard Bidding Documents.
19. Documentation on Eligibility of Goods		The documentary evidence required in the evaluation criteria of these Standard Bidding Documents as specified in the Bid Data Sheet (BDS) for Bidder's eligibility to bid for the intended goods, shall establish to the Procuring Entity's satisfaction that the Bidder, at the time of submission of his bid, is an eligible bidder
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 or as a specified amount as mentioned in the Bid Data Sheet (BDS) . Unsuccessful bidder's bid security shall be discharged or returned. Un successful bidder bid security shall be discharge or return soon after announcement of the successful bidders
	20.2	The successful bidder bid security shall be discharge upon signing of contract and furnishing the performance security / Guarantee.
	20.3	The Bid security may be forfeited

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~~a) If a Bidder withdraws its bid during the period of bid validity:~~

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OR

- b) in the case of 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 Entity as non-responsive.
	21.2	The Procuring Entity 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 not exceed the period of the original bid validity.
	21.3	Bidders who,- a) agree to the Procuring Entity's request for extension of bid validity period, shall not be permitted to change the substance of their bids; and b) do not agree to an extension of the bid validity period, shall be allowed to withdraw their bids without forfeiture of their bid security
22. Format and Signing of Bids.	22.1	The Bidder shall prepare and submit his 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 and stamp all pages of the Standard Bidding Documents.
	22.4	Any tampering, illegitimate inclusion or exclusion in any part of the Standard Bidding Documents shall lead to disqualification of the bidder.
23. Pre Bidding Meeting / Clarification of Tender Documents	23.1	The Procuring Entity, may convene a Pre-Bid/ Conference anytime 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.

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	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.
24. Submission of Bids / Sealing and Marking of Bids	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.
	24.1	The envelopes shall be marked as —TECHNICAL BIDII and —FINANCIAL BIDII and in bold and legible letters to avoid confusion. Similarly, the Bidder shall seal both the 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 (IFB); and; (b) contain Bid Reference Number indicated in the Bid Data Sheet (BDS), and a statement: —DO NOT OPEN BEFORE,II and 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-responsivell or — latell .
	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, premature opening or accidental revelation of bid price.
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 be rendered non-responsive and will be returned to the bidder unopened.
	25.2	The Procuring Agency may, in its discretion, extend the prescribed deadline for the submission of bids by amending the Standard 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 24 shall be rejected and returned unopened to the Bidder.

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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 Bid opening. Withdrawal of a bid during this period shall result in forfeiture of the Bid Security Submitted by the Bidder, pursuant to the ITB Clause 20 above.
28. Opening of Bids by the Procuring Agency.	28.1	All bids received, shall be opened by the Procuring Agency publicly under Rule 21 of the NWFP Procurement of Goods, Works & Services Rules 2003, 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 above.
	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. The Procuring Agency shall have the minutes of the Bid opening
	28.5	(technical and when applicable financial) recorded. No Bid shall be rejected at technical proposal / bid opening except
		for late bids which shall be return unopened to the bidder. vi) The financial bids found having without bid security shall also be return un announce to the bidders. however, prior to returned to the bidder the Chiarman of the Puchacse / procurement committee shall record his statement giving reason for returen of such bids.
	28.8	The bids found 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).
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

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		<p>corrected.</p> <p>b) If the Bidder does not accept the correction of the errors, its bid shall be rejected, and its Bid Security may be forfeited.</p> <p>c) If there is a discrepancy between words and figures, lower of the two shall be considered as per Rule 28(2)(b) of the NWFP Procurement of Goods, Works and Services Rules 2003.</p> <p>d) The evaluation shall include all taxes and duties inclusive of local levies as a part of the price under Rule 28(2)(c) of NWFP Procurement of Goods, Works and Services Rules 2003.</p>
	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 determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantially responsive bid is one, which at the time of bid opening, conforms to all the terms and conditions of the Invitation For Bid (IFB) and the Standard Bidding Documents without material deviations. Deviations from the critical provisions, such as those concerning Applicable Laws, Taxes, Duties and internationally recognized best practices detailed evaluation, the Procuring Agency shall or imposition of conditionalities by the bidder shall be deemed to be a material deviation for rendering a technical bid as non-responsive. 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 nonconformity.

31.Evaluationof 31.1

Bids in accordance with the Evaluation

The Procuring Agency evaluate and compare the bids which have determine to be substantively responsive in accordance with ITB Clauses above.

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Criteria.

32. qualification f bidder

All bids shall be evaluated as per evaluation criteria and other terms and conditions set forth in the Standard Bidding Documents Evaluation Methodology specified in the **Bid Data Sheet (BDS)** and other terms and conditions set forth in these Standard Bidding Documents (SBDs). Only those bids shall be evaluated which have been determined to be substantially responsive in accordance with ITB Clause 28 above. The Procuring Entity shall choose the Evaluation Methodology under the rules keeping in view the complexity of the procurement activity to determine the Lowest Evaluated Responsive Bidder and shall either be based

on:

- (a) Merit Point Evaluation Methodology to identify the highest ranking quoted item (Most Economically Advantageous Bid), or
- (b) Lowest Price Evaluation Methodology

31.2	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 Standard Bidding Documents, as notified by the State Bank of Pakistan/ National Bank of Pakistan on that day.
31.3	A bid once opened in accordance with the prescribed procedure, shall be subject to only those evaluation criteria in the Standard Bidding Documents, rules, regulations and policies that are in force at the time of issue of notice for Invitation For Bids (IFB).

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	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 pre-requisite for award of the Contract to the Bidder. A negative determination shall result in non-qualification/dis-qualification of the Bidder's bid, in which event the Procuring Entity shall proceed to the next lowest evaluated responsive bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
33. Disqualification of Bidders	33.1	If the Procuring Entity finds at any time that a bidder has attempted to defraud or hoodwink the Procuring Entity or an Evaluation Committee constituted there under, by intentional provision of false, mis-stated, mis-represented, incomplete or materially inaccurate information concerning qualification of the product or the firm, through unauthorized submission of another firm's proprietary clinical or product research, certification or any data as specified in the Bid Data Sheet (BDS) against his own quoted product or firm and fails to remedy such deficiencies, the said bidder shall be disqualified under the prevailing rules and any attempt by the bidder to offer inducement of any sort, formation of a cartel to discourage fair competition or failure to complete his earlier contract within a period of five years of initiation of procurement may lead to cancellation of his bid or contract, and his debarring & blacklisting under prevailing law for a stated or indefinite period of time
	33.2	The Procuring Entity may opt for arranging a Pre-Award Debriefing session to inform the non-qualified/dis-qualified bidders before the opening of Financial bids of technically qualified bidders.
34. Rejection of Bids	34.1	The Procuring Agency may reject any or all bids at any time prior to the acceptance of a bid under the rules. 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.
	34.2	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.
	34.3	The Procuring Agency shall upon request communicate to any Bidder who submitted a bid, the grounds for its rejection of any or

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		all bids, but is not required to justify those grounds.
	34.4	The Procuring Agency incurs no liability, by virtue of its invoking ITB Clause 34.1 above towards Bidders who have submitted bids.
	34.5	Notice of the rejection of any or all bids shall be given promptly to the concerned Bidders that submitted bids.
35. Re-Bidding	35.1	If the Purchaser rejected all bids in pursuant to ITB Clause 32, it may call for a re-bidding by adopting the requisite procedure under the rules. . Notice of rejection of the tender shall be given to all the bidders who submitted the bids.
	35.2	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 33(1) of the NWFP Procurement of Goods, Works & Services Rules 2003 .
36. De-Briefing Sessions for Access to Information on Evaluation Process	36.1	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.
	39.1	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. Award / Acceptance of Bid and Award Criteria.		
40. Procuring Agency's Right to vary quantities at the time of Award.	40.1	The Procuring Agency reserves the right at the time of award of Contract to increase or decrease, the quantity of goods originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
41. Notification of Award	41.1	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.
	41.2	The notification of award shall constitute the formation of the Contract between the Procuring Agency and the successful Bidder.
	41.3	The enforcement of the Contract shall be governed by Rule 42 of the NWFP Procurement of Goods, Works and Services Rules, 2003. 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.
	41.4	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 15 of the NWFP Procurement of Goods, Works and Services Rules, 2003 and within the time specified in the Bid

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Data Sheet (BDS).		
	41.5	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.
42. Limitation on Negotiations	42.1	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.
43. Signing of Contract.	43.1	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 these 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 under Rule 21 of the KAPRA Rules 2014.
	43.2	Review against a contract award shall be carried out in
	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.
	43.4	The Contract shall become effective upon affixation of signature of the Purchaser and the selected Bidder on the Contract document, and shall be governed for the period specified in the Bid Data Sheet (BDS) and by the terms and conditions mutually agreed in the contract.
44. Performance Security	44.1	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) .
	44.2	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.
	44.3	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.

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General Conditions of Contract (GCC)

1. Definitions	1.1	<p>In this Contract, the following terms shall be interpreted as indicated:</p> <p>(a) —The Contractll means the agreement entered into between the Ayub Teaching Hospital and Supplier, as recorded in the Agreement signed by the Parties including all attached & appendices thereto an all documents incorporated by reference therein</p> <p>(b) —The Contract Pricell means the price payable to the Supplier under the Contract for the full and proper performance of its Contractual obligations.</p> <p>(c) —The Goodsll means all those supplies which the Supplier is required to supply to the Purchaser under the Contract.</p> <p>(d) —The Servicesll 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 upto the desired destinations, installation and other such obligations of the Supplier covered under the Contract.</p> <p>(e) —GCCll means the General Conditions of Contract contained in this section.</p> <p>(f) —SCCll means Special Conditions of the Contract.</p> <p>(g) —The Purchaserll means the Client as mentioned in the SCC.</p> <p>(h) —The Supplierll means the individual or firm supplying the goods under this Contract.</p> <p>(i) —Dayll means calendar day.</p>
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.
	3.2	For purposes of this clause, —originll means the place where the goods are produced, or the place from

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		which the related services are supplied. Goods are produced when, through manufacturing or processing.
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	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.
	5.3	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

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		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 check.
	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 .
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 One (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.
		The Purchaser's right to inspect, test and, where

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	10.3	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.
	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.
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.
	12.3	The goods supplied under the Contract shall be Delivered Duty Paid (DDP) under which risk is transferred to the buyer after the Goods have been delivered;
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

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

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	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	24.3	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

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		<p>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.</p> <p>Applicable rate for penalties in case of a breach of contract by the supplier regarding delivery of Goods is specified in the Supply Schedule.</p>
<p>26. Termination for Default</p>		<p>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 as mentioned in the SCC in whole or in part:</p> <p>(a) if the Supplier fails to deliver any or all installments of the goods within the period(s) specified in the Supply Schedule in Part-II: Section-III of the Standard Bidding Documents within the period specified in and subsequent purchase order, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 24; or</p> <p>(b) if the Supplier fails to perform any other Obligation under the Contract.</p> <p>(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.</p> <p>For the purpose of this clause Corrupt and fraudulent practices means:</p> <p><i>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.”</i></p>
<p>27. Force Majeure</p>	<p>27.1</p>	<p>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 Majeuro. For the purposes of this clause Force Majeure</p>

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		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

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(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.

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: as mentioned in the advertisement.**

GCC 1.1 (g)—The Purchaser is: **AYUB Teaching Hospital, Abbottabad**

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 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— after delivery of store the inspection will be carried out by the Inspection Committee of Ayub Teaching Hospital Abbottabad before the payment.

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 the Purchaser feels that sufficient time has elapsed between the manufacturer's pre-qualification/preliminary assessment and bid evaluation.

6. Packing (GCC Clause 11)

Applicable as required by the Purchaser.

7. Delivery and Documents (GCC Clause 12)

GCC Clause 12.1—Delivery/Supply Period of the intended goods shall be **90 Days** for Imported Goods and **30 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 Inco terms 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 5 years, where applicable.

- (a) If cost is up to Rs. 2-3 million, **1%** of the approved cost per year will be given to the firm.
- (b) If cost is above Rs. 3 millions, **0.5%** of approved cost per year will be given to the firm.

Note: The conditions (a) & (b) will be subject to mutual agreement.

10. Warranty (GCC Clause 17)

GCC 17.2—**Warranty period FIVE (05) 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:

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- (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:

- (iii) **On Delivery & goods 100% Payment will be made after installation by the Inspection Committee. However part supply part payment within stipulated period is allowed.**
- (iv)

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 & Penalties (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. Termination of Contract (GCC Clause 26):

GCC 26.1 —After exhausting all the delivery period as provided in the Supply Schedule in Part-II: Section-III of the Standard Bidding Documents and still failing to supply the intended goods, the Purchaser may terminate the Contract for default of the supplier, and procure the non-supplied goods at supplier's risk and cost from the open market, and shall enforce Supplier's Performance security.

14. 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 Pakhtun Khwa**.

15. Governing Language (GCC Clause 31)

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

16. 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:

Khyber Pakhtunkhwa Public Procurement Rules 2014

NWFP Procurement of Goods, Works & Consulting Services Ordinance

2002 NWFP Procurement of Goods, Works & Services Rules 2003

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)

GCC 33.1—Purchaser's address for notice purposes:

AYUB TEACHING HOSPITAL ABBOTTABAD

Telephone(s): 0992-9311159

Website: <http://www.ath.gov.pk>

Supplier's address for notice purposes: Hospital Director, Ayub Teaching Hospital, Mansehra Road, Mandian, Abbottabad.

17. Duties & Taxes (GCC clause 34)

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

APPROVED TECHNICAL EVALUATION CRITERIA

**TECHNICAL EVALUATION CRITERIA FOR ELECTRO MEDICAL EQUIPMENTS
PROCUREMENT PROCEDURE: SINGLE STAGE TWO ENVELOPES
FY 2026-27**

S #	Description of Knock Out Clauses (Mandatory Requirements)	Remarks
1.	<i>Proof of Registration with NTN / Valid Income Tax Registration/ Valid Sales Tax Registration and reflected on Active Taxpayer List (ATL) of FBR.</i>	Mandatory
2.	<i>03 years banks statement and audit report must attach.</i>	Mandatory
3.	<i>Certificate that CDR is attached with the Financial Bid (CDR Copy) and Uploading Bid Security (in original) on EPADS Portal with financial bid.</i>	Mandatory
4.	<i>Manufacturer or their embassy attested Sole Authorized Dealership for whole Pakistan territory. (Project base authorization is not allowed)</i>	Mandatory
5.	<i>The bidder must have minimum (10) Ten years relevant experience in the relevant field of business. (Documented Proof)</i>	Mandatory
6.	<i>The firm must have good performance certificate for the quoted product of 05 MTIs in KPK or any teaching hospital/research level/ armed forces hospital of the Pakistan.</i>	Mandatory
7.	<i>Product Certifications: US-FDA (510K) (Mandatory) Must have one of the following certificates. CE-MDR /EC or MHLW</i>	Mandatory
8.	<i>Comprehensive warranty of the equipment with all parts and services will be 05 years.</i>	Mandatory
9.	<i>A Certificate from the Original Manufacturer's head Office only (verifiable) indicates that in case of change of Authorize Dealer, the manufacturer will be responsible to execute the standard as well as post warranty obligations directly or through newly appointed Authorize Dealer.</i>	Mandatory
10.	<i>This undertaking should be tender specific. Submission of undertaking on legal valid and attested stamp paper that the firm is NOT BLACKLISTED by any of Government Department, Agency, Organization or autonomous body anywhere in Pakistan.</i>	Mandatory
11.	<i>The bidder has NOT been defaulter / insolvent nor bankrupt in past from any government department or financial institution.</i>	Mandatory
12.	<i>If the firm is already working in Ayub teaching hospital, the good performance of the installed equipment and backup support certificate of the firm must attached. The certificate must be latest and duly signed by the hospital Authority. In case these certificates are not attached the firm will consider as disqualified.</i>	Mandatory
13.	<i>Joint Venture or sub-distribution (Not Allowed)</i>	Mandatory

Ayub Teaching Hospital


S #	INDICATORS	Marks Allocation
CONFORMANCE TO THE ATH ADVERTISED SPECIFICATIONS		
1	<p>Conformance to the ATH advertised specifications.</p> <p><i>The bidder shall prepare the bid specifications in an annotated for ease of comparison & evaluation. The specifications will also be supported with a reference picture/design of the product (where required).</i></p> <p>Maximum 02 deviations (not affecting the performance of the product) shall be accepted.</p> <p>For each deviation two (02) marks shall be deducted less than 26 marks shall be treated as non-responsive.</p>	30
2	Additional Features of the quoted equipment (02) marks will be given against each feature (max 10 marks)	10
PRODUCT PERFORMANCE (RELEVANT EXPERIENCE)		
3	<p>The firm will provide latest (Current Year) 05 performance of the quoted equipment installed in the teaching / research level institutes (02 marks per performance)</p> <p>(Certificates older than 03 years will not be entertain)</p>	10
4	<p>In case country of manufacturer and Manufacturing of the quoted equipment is same the firm will get 10 marks</p> <p>Rest will get (05 marks)</p>	10
5	<p>In case of Manufacturing facility / Country of Shipment (Import) is USA, Europe or Japan of the quoted equipment will get 10 marks</p> <p>Rest will get (03 marks)</p>	10
6	List of consumable items (for which the firm will not provide warranty) of the quoted items. The firm will provide the rates of the consumable items in technical bid. The lowest will get 10 marks. Rest will get 05 Marks. If the firm don't provide the cost of the consumable will be get zero marks.	10
HR CAPABILITIES/TOOLS		
7	<p>Foreign Trained Engineer (PEC Registered) on the same modality (05 marks) (01 mark for one trained Engineer)</p> <p><i>Training certificate and passport shall be inspected during the evaluation.</i></p> <p><i>No online training shall be considered. Short CV and Original Signature of HR showing complete name and designation.</i></p>	05
FINANCIAL CAPABILITIES (PKR)		
9	<p>Annual turnover for the last three years in</p> <p>Above 01 Billion (PKR) (5 marks)</p> <p>500 million to 01 Billion (PKR) (2 marks)</p>	05




Ayub Teaching Hospital

ADDITIONAL WARRANTY		
10	a. 01 year beyond mandatory warranty with parts will get 01 Marks b. 02 year beyond mandatory warranty with parts will get 03 Marks c. 03 year beyond mandatory warranty with parts will get 05 Marks d. Firm offer No additional warranty will get ZERO marks.	05
POST WARRANTY MAINTENANCE CONTRACT		
11	Post Warranty in % age (with parts), (after comprehensive warranty) (Lowest bidder will get full 05 marks) (2 nd lowest will get 03 marks) (Rest will get 01 marks)	05
Total Marks		100

- Minimum Score for Qualification is 80 out of 100.
- The firm with lowest price will be recommended for the award letter.


Sajjad Alam
 DD(EM)
 Co-Opted Member


Sardar Pervaiz
 Litigation Officer
 Member


Altaf Ur Rehman
 Finance Director
 Member


Wg Cdr (Retd) Asghar Khan
 Senior Manager Material Management
 Chairman

LIST OF TENDER ITEMS.

i. **Electro Medical Equipment,**

along with Specifications (2026-27)

ATTACHED AS PER

Technical Specifications is also available on the website of Ayub Teaching Hospital Abbottabad at:
www.ath.gov.pk and E-PADS

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.).

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 the Directorate General Health services to the successful bidders along with Contract as per following schedule of requirements: -

Supply Schedule:

B) For Local Goods:

² The validity of Purchase Order will start from its next date of issuance to the concerned Supplier.

Mode of Penalty	100% Quantity as per Purchase Order	Total delivery Period
Without penalty	30 days	30 days
With penalty @ 0.067 % per day after 30 days of Purchase Order	10 days	40 days

*Failure to deliver the goods after 40 days will lead to termination of contract for default and enforcement of Performance Security of the Supplier.

Note: *The total delivery period include opening of Letter of Credit (if any), transportation from manufacturer's destination to the Purchaser's CountryPort, 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.*

Technical Specifications and Ancillary Services

a). Product Specifications:

Available on ATH Abbottabad website as a separate detailed Annexure at:

<http://www.ath.gov.pk>

and **E-PADS**

b). Liquidated Damages / Penalty

- i) 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.
- ii) 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.
- iii) 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.
- 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) Extension in the delivery period (if any) will be considered by the Purchaser on case to case basis and strictly in accordance with Rule 35(2) of KPRA rules 2014.

c). Incidental Services

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

- i) **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.
- ii) **Insurance:** All insurance charges will be borne by the supplier.

- iii) **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.

- iv) **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.
- v) **Test-Run / Commissioning:** Equipment will be subjected to test- run after commissioning.
- vi) **Staff Training:** Where required, on job training to be provided to working staff on the equipment to be supplied / installed.
- vii) **Initial Maintenance:** Supplier will be responsible for initial maintenance of the equipment (repair and parts), for FIVE complete years starting from the date of installation/test-run.
- viii) **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 TEN years (apart from initial FIVE years as in clause **vii** above), on reasonable rates.
- ix) **After Sales Service:** Supplier will provide free after sales service from trained and qualified technical staff, free of charge for EIGHT complete years (including FIVE years with parts as mentioned above in clause **vii**), after the date of installation / test-run.

d) Warranty

The supplier / original manufacturer will provide comprehensive warranty (on Judicial Paper) of free after sales service, maintenance, replacement of parts, and working of the equipment for **FIVE years** from the date of installation/test-run. Post warranty maintenance contract for another **five years**, including after sales service with 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.

d) Additional instructions

- i. Please clearly indicate the country of origin, wholly or parts, etc.
- ii. Indicate place/port of shipment.
- iii. 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.
- iv. Complete literature on working, installation, circuiting, maintenance to be provided in English language, with the equipment.
- v. 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 manufacturer's location, prior to shipment / installation (for complex and high-tech equipment).

Price Schedule submitted by the Bidder.

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

Purchaser's Notification of Award

(Copy of the final letter will be attached)

Ayub Teaching Hospital

SUPPLY / PURCHASE ORDER.

(Specimen Sample of Health Institution/Project Purchase Order)

OFFICE OF THE HOSPITAL DIRECTOR
AYUB TEACHING HOSPITAL,
ABBOTTABAD



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) <u>(Inclusive of all duties & taxes)</u>

Additional instructions (if any):

- 1.
- 2.
- 3.

**Hospital Director
AYUB Teaching Hospital
Abbottabad**

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)

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.

List of Selected Items: *(In case the Bidder has opted to bid for Selected Items, pleasetype the Serial No⁴. 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: † Original receipt for the purchase of the bidding documents.

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

³ The Serial No. of the item as mentioned in the Technical Specifications.

⁴ The Attachment must be made with the Bid Cover Sheet.

†

BID FORM 1

Letter of Intention

Bid Ref No.

Date of the Opening of Bids

Name of the Contract :{ Add name e.g items etc)

To: *[Name and address of Procuring Agency]*

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 this *[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:

- We have read the contents of the Bidding Document and have fully understood it.
- The Bid being submitted by the undersigned complies with the requirements enunciated in the bidding documents.
- The Goods that we propose to supply under this contract are eligible goods within the meaning of Clause 18 of the ITB.
- The undersigned are also eligible Bidders within the meaning of Clause 19 of the ITB of the Standard Bidding Documents.
- The undersigned are solvent and competent to undertake the subject contract under the Laws of Pakistan.
- 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.
- The undersigned are not blacklisted or facing debarment from any Government, or its organization or project.
- The undersigned has no dispute anywhere in the province regarding supplies.
- The undersigned agree to give warranty with repair and parts for 05 year, 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 by the Executive of the Firm attested by Oath Commissioner.

BID FORM 3(B)

MANUFACTURER'S AUTHORISATION¹¹

To:

***The Hospital Director,
AYUB Teaching Hospital, Abbottabad***

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.

Signature:-----.

Designation:-----

Official Stamp:-----

⁹ 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.

Ayub Teaching Hospital

BID FORM 4

Firm's Past Performance¹².

Name of the Firm:

Bid Reference No:

Date of opening of Bid:

Assessment Period: (As per Technical Evaluation Criteria)

Name of the Purchaser/Institution	Purchase Order No.	Description Of Order	Value of Order	Date of Completion	Purchaser's ¹³ Certificate

¹⁰ Bidders may use additional Sheets if required.

¹¹ All certificates are to be attached with this form.

Ayub Teaching Hospital

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 Bid to the Office of the Hospital Director AYUB Teaching Hospital, Abbottabad.

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					

Signature:

Designation:

Date:

Official Stamp:

-

BID FORM 6

Performance Bank 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 _____, 2014

Signature and Seal of the Guarantors/ Bank

Address

Date

CONTRACT AGREEMENT

THIS CONTRACT is made at on day of 20__, between The Hospital Director AYUB Teaching Hospital, Abbottabad, (hereinafter referred to as the —Purchaserll) 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 —Supplierll) of the Second Part (hereinafter referred to individually as —Partyll and collectively as the —Partiesll).

WHEREAS the Purchaser invited bids for procurement of goods, 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;

3. **The Contract:** The following documents shall be deemed to form and be read and construed as integral part of this Contract , viz:-
 - a. Bid Data Sheet (**BDS**)
 - b. Instructions to Bidders (**ITB**).
 - c. General Conditions of Contract (**GCC**)
 - d. Special Conditions of Contract (**SCC**)
 - e. Schedule of Requirements.
 - i) Supply Schedule
 - f. Technical Specifications.
 - g. Price Schedule submitted by the Bidder.
 - h. Purchaser's Notification of Award.
 - i. Purchase Order.
 - j. Performance Security
 - k. List of Bio-Medical Equipment & Hospital supplies
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 —Contractll:
3. **Term of the Contract:** This contract shall remain valid for[*Duration*] from the date of signing, unless amended by mutual consent.
4. The Supplier declares as under:
 - i. [*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 by it (Government of Khyber Pakhtunkhwa) through any corrupt business practice.
 - ii. 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.

- iii. *[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.
 - iv. *[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.
 - v. 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.
 - vi. 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).
5. **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).
- (ii) 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
- (iii) The Unit Cost agreed in the Price Schedule (Annex C), is inclusive of all taxation and costs associated with transportation and other agreed incidental costs.
7. **Payments:** The Purchaser hereby covenants to pay the Supplier inconsideration of the provision of the Goods and Services, as specified in the

Ayub Teaching Hospital

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.

8. **Mode of Payment:** All payments to the Supplier shall be made through Crossed Cheques issued in the name of [supplier's name]
9. **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.
10. **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.
11. **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

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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 any where quoted in same financial year. If any where 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

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

For the Purchaser:

Office of the Hospital Director AYUB Teaching, Abbottabad

Mansehra, Road, Abbottabad

Tel: 0992-920155

Fax: 0992-920154

Email: info@ath.gov.pk

Ayub Teaching Hospital

IN WITNESS Whereof the Parties hereto have caused this Contract to be executed at _____(the place) and shall enter into force on the day, month and year first above mentioned.

Signed/ Sealed: For the Purchaser.

Signature: _____

Name: _____

Designation: _____

**Signed/ Sealed: For the
Manufacturer/ Authorized
Agent.**

Signature: _____

Name: _____

Designation: _____

**THE LIST OF REQUIRED ITEMS WITH
QUANTITY IS ATTACHED HEREWITH
AS PART OF TENDER DOCUMENTS**

DEPARTMENT OF DERMATOLOGY
AYUB TEACHING HOSPITAL
ABBOTTABAD

No: 687 PA-Derma/ATH

Dated: 2 / 9 /2025

To:

Deputy Director Electro Medical
AMTI, Abbottabad

Subject: Submission of Specifications for Electro medical Equipment

Reference: Your letter No. ATH/EME/1921-23 dated 01-09-2025 regarding "Specification of Electro medical Equipments."

With reference to the above, the Department of Dermatology is pleased to submit the generalized, broad-based, and non-brand specific specifications of the required equipment, in line with the *Value for Money* clause of KPPRA Rules 2014:

1.1.3 Phototherapy Unit (Full Body)

- Type: Narrowband UVB (311 nm) and/or combined UVA/UVB full body cabin system.
- Design: All-covered, fully enclosed 4-sided cabin with roof/ceiling (not open from the back or top) to ensure uniform irradiation, patient safety, and prevention of stray UV exposure. Suitable for whole-body standing treatment.
- Lamp Technology: Medical-grade fluorescent narrowband UVB tubes or equivalent. Minimum 24 tubes to provide uniform body coverage.
- Wavelengths: UVB: Narrowband 311–313 nm. UVA: 320–400 nm (if dual function).
- Control & Safety: Digital microprocessor-based timer with dose display (J/cm^2 or mJ/cm^2). Adjustable exposure time with automatic cut-off. Emergency stop button. Door interlock for patient safety. Integrated cooling/ventilation system.

patient safety. Integrated cooling/ventilation system.

- Accessories: UV protective goggles for patient and operator.
- Reference Model: Comparable to Dermalight 3000 or equivalent.
- Certification: CE/FDA approved or equivalent recognized medical standards.

2. UV Hand & Foot Phototherapy Unit

- Type: Narrowband UVB (311 nm) device for localized hand and foot treatment.
- Design: Enclosed chamber with transparent protective shield and ergonomic design.
- Lamp Arrangement: Multiple narrowband UVB tubes arranged for uniform exposure.
- Control: Digital control panel with treatment modes. Timer and lamp-hour counter. Dose monitoring (time or energy based).
- Safety Features: Protective viewing shield. Auto shut-off after session completion.
- Reference Model: Comparable to Dermalight Hand & Foot unit or equivalent.
- Certification: CE/FDA approved or equivalent recognized medical standards.

3. Diode Laser Machine

- Type: Dermatology-grade diode laser system for aesthetic and therapeutic use.
 - Wavelength: Around 800–810 nm (commonly used for hair removal and vascular lesions).
 - Energy Output: Adjustable fluence (measured in J/cm^2).
 - Pulse Duration: Adjustable pulse width for different skin types.
 - Cooling System: Integrated epidermal protection system (contact cooling / chilled air / cryogen spray).
 - Hand piece: Ergonomic, suitable for multiple treatment areas (face and body).
 - Control System: User-friendly interface with touchscreen preferred. Multiple preset treatment protocols with manual override.
 - Safety Features: Emergency stop button. Protective eye wear for patient and operator.
 - Certification: CE/FDA or equivalent international medical device standards.
-

Compliance Note

All specifications are generalized, broad-based, and non-brand specific.

Model references (Dermalight 3000, 500, Hand & Foot) are given for guidance only, with “or equivalent” clearly stated.

In line with **KPPRA Rules 2014 – Value for Money clause.**

We trust this fulfills the requirement. Kindly process the matter further at your end.

With Regards,

Dr. Durrreshwar Pirzada
Head of Dermatology Department
AMTI Abbottabad

Cc:

- Hospital Director, AMTI Abbottabad
- Senior Manager, Material Management, AMTI Abbottabad

Cost-Effective & Time -saving alternative to greenlight LASER vaporization.
 Enhanced visualisation 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.
 Magnet plate on the unit enables easy & space-saving mount for resection box.

Including:

Basic unit,

Mains Cord

Connecting Cable, length 100 cm

FOOT PEDAL 1

SUCTION IRRIGATION UNIT.

Hysteroscopy Software

IBS Software

Advanced software

Hysteroscopy Irrigation tube, x10, single use

IBS Suction tube, x10, single use

Gyn Software, License

One-Pedal Footswitch, two-stage.

OFFICE BASED HYSTEROSCOPY INSTRUMENT SET:

2.9mm telescope along with the diagnostic and therapeutic sheet

Biopsy forcep

Grasping forcep

Punch forcep

Scissor

4K LATEST TECHNOLOGY GYNE LAPAROSCOPES

1-4K UHD Monitor Medical Grade

S.NO	Features	Description
1.	Monitor	30" 4K UHD Medical Grade
2.	Resolution	3840x2160 or better
3.	Brightness	350cm/m2 or better
4.	Video Input	1 x Display Port 1.2, 1 x DVI-D, 4 x SDI (3G-SDI, HD-SDI, SDI).1 x GPI
5.	Video Out Put	1 x DVI-D. 4 x SDI (3G-SDI, HD-SDI, SDI).1 x 5V DC.
6.	Origin	Europe/USA/JAPAN

2- Main Video Processor 4K UHD

S.NO	Features	Description
1.	Video Processor	K UHD Camera Video processor latest modular technologies. Capable to connect multiple video processors at a time for single and hybrid surgical utilities
2.	Camera box compatibility	4K UHD Camera Head, 3D4k Endoscopes NIR-ICG, 4K ICG Camera Head, Exoscopy 4K NIR-ICG
3.	Resolutions	3840x2160 or better
4.	Image	Should have crystal clear sharp image, with multiple advance

	orientation & ICG function provision	imaging features for diagnostic purpose 4 or better with live comparison with standard 4k image, CCU should be compatible & Ready to use for ICG
5.	image capturing	Should have inbuilt USB or External device based still image capturing & Video recording facility & both recording & snap shots at a time
6.	Upgradeability & Hybrid	Should be able to upgrade in various camera technology and video flexible technologies, with real time hybrid function, ICG NIR
7.	Compatibility	Should be compatible with all kind of telescopes and forward and backward camera compatible and upgrade able in 3d4k and flexible video endoscope with real time hybrid function
8.	Special control	System all item, i.e control of light source, Endoflator, system features video recording & snap shorts, hybrid function can be control through camera head buttons
9.	Teaching tools	System should have 2 or better teaching tools that is laser pointer and grid or better
10.	Power	100-240VAC
11.	Origin	Europe/USA/JAPAN

3- Standard Camera Head 4K UHD

S.NO	Features	Description
	Technology	4k UHD Latest Chip or better
	Resolution	3840x2160 or better
	Scan Mode & input	Progressive, 16:9
	Zoom & Focal Length	F=13 to 15mm, latest mode of zooming or better
	Programmable buttons	2 to 3 programmable buttons or better
	Telescope Description	Camera head should compatible for all 4k, HD telescopes and also compatible for open surgery Exoscopy system by design & OEM compatibility
	Weight	Less than 250g

4-LED LIGHT SOURCE UNIT

S.NO	Lamp Type	Description
		High Performance LED 300
1.	Display	Touch function, LCD display.
2.	Touch function, LCD display.	6400K
3.	Lamp Out let	1
4.	Controlling	Complete unit can be operate through camera head & keyboard/equal
5.	Lamp life	20,000 hrs or more
6.	Stand by	Should have stand by function

5- Fiber Optic Light Cable

Same manufacturer light cable 4.6mm, 240cm

6- RECORDING SYSTEM FROM SAME MANUFACTURER

1.	System type	In built system in processor or External Device
2.	Still Images	UHD Quality (JPEG)
3.	Video Capturing	Full HD quality (MPEG4)
4.	Dual function	should be able to capture still images and video recording at same time
5.	Data Storage	External USB type or internal hard drive
6.	Printer compatibility	Device or system should have compatibility for medical grade printer

8-45-50 Liter Endoflator from same manufacturer

A	Display	LCD or better
B	Controls	Touch screen
C	Max Gas Pressure	0-25mmHg or equivalent
D	Max Gas Flow	0-45 l/min or equivalent
E	Functions	Adult and Pediatrics on One Touch Function, Gas flow must be heated/ thermal insufflation as per body
F	Integrated Control	Should be control able thorough camera Head & keyboard
G	Parameter display	nsufflations Pressure, Intraabdominal Pressure; 0-25mmHg, Gas flow: 0-45 l/min, Gas Consumption: 0-999L

Trolley: Original Trolley from Same Manufacturer
Autoclavable Gynae Laparoscopy Advance Surgery Instruments Set from Same Manufacturer

4k & HD Both Compatible Telescope 0Deg, 10mm, 30cm or better	1
4k & HD Both compatible Telescope 30Deg, 10mm, 30cm or better	1
Trocar 6mm	2
Trocar 11mm	2
Marry land dissecting forcep 16mmjaw, 5mm, 36cm	1
Babcock forcep ,5mm, 36cm	1
Scissor curved 5mm, 36cm	1
Johan forcep 5mm, 36cm	1
Gallbladder holding forcep 5mm, 36cm with locking handle	1
Bowel grasper 5mm, 36cm	1
Tooth grasper 5mm, 36cm with locking handle	1
Clip applicator 10mm	1
Needle holder 5mm,	1
Claw forcep 10mm with locking handle	1
Suction irrigation tube 5mm 36cm	1
Hook electrode 5mm, length 36cm	1
HF Cable monopolar	2
Injection cannula	1
Veress needle 15cm	1
Reducer external 10/5mm	1
Knot tier	1
Uterine manipulator with all accessories same oem	1
Uterine cannula with luer lock	1
Trocar seal CAPS for 6mm trocar	20
Bipolar grasping forcep with bipolar cable	
trocar seal CAPS for 11mm trocar	20
Camera head disposable covers from same OEM recommended	50Pcs
Instruments container for 10 to 12 instruments	1
Fiber optic light cable 4.8mm, 300cm	1
Telescope 10mm,	1
Telescope sterilization box for telescopes of 10mm	1

ligasure hand piece -

(3)

Prof Dr Iram Sarwar

Chairperson

Department of Gynae/Ob

Ayub Medical Teaching Institute

ANESTHESIA MACHINE

- Should have six conventional flow tubes to provide accurate control, particularly at low flow rates.
- The system has pipeline gas supply inputs for O₂, N₂O and Air; and backup cylinder supply inputs for O₂ and N₂O.
- Provision of communication port for sharing and transfer of data.
- The unit should have high standard built-in features to support patient safety.
- Vertically integrated breathing system (IBS) with breathing bag holder.
- GCX compatible aluminium uprights for additional accessory mounting
- Switchable front facing common gas outlet for open and closed circuit operation
- Non interchangeable pipeline inlets.
- Pin index cylinder yokes for Oxygen, Air and N₂O.
- O₂ flush control.
- Two Lockable casters.
- Stainless steel/ fiber work surface
- Aux O₂ flow meter,
- 3 Power outlets in the back to connect auxiliary equipment's.
- CO₂ absorber with integrated heater option 1500 gm or more.
- APL valve Range 0-70cmh₂0
- LED illuminated work spaces
- Scavenging system passive type.

ANESTHESIA VENTILATORS

- Anesthesia Ventilator with minimum 10" or more TFT colour touchscreen.
- Ventilator shall be capable of ventilating Neonates/Pediatric/Adult patients.
- Ventilator modes should have
Volume Control Ventilation (VCV)
Pressure Control Ventilation (PCV)
Synchronised Intermittent Mandatory Ventilation - Volume (SIMV-V)
Synchronised Intermittent Mandatory Ventilation - Pressure (SIMV-P)
Synchronised Intermittent Mandatory Ventilation - Pressure Regulated Volume Control (SIMV-PRVC)
SPONT/Pressure Support Ventilation (PSV) with apnea backup (VCV or PCV)
Manual or better
- Should have two user-selectable waveform displays with a choice of Airway Pressure, Flow Rate, Tidal Volume, P-V Loop, V-F Loop, CO₂ or Pleth.
- PEEP available in all modes, except Manual
- Respiratory Rate I:E4:1 to 1:10
- Tidal volume 20 to 1400 ml.

- PEEP: OFF, 2 to 20 cm H₂O or more better.
- Rate of frequency 4 to 70bpm.
- Inspiratory pause 0 to 60%.
- Pressure control 10 to 60 cmH₂O or more better
- Low Battery Alarm
- Low/High Fio₂ alarm.
- Mains failure alarm.
- Time, date, mains and battery indicators.
- Anti-Hypoxic Fresh Gas Mixture: Mechanical Type
- Battery backup minimum 120 minutes or more.
- Pre calibrated Selectatec interlock vaporizer of Isoflurane (Qty: 01) OR Sevoflaurane (Qty: 01) temperature and flow compensated. (Vaporizers must be same manufacturer)

STANDARD ACCESSORIES

The ventilator shall be supplied with

- CO₂ Absorber
- Air Oxygen and Nitrous hoses
- Vaporizer (QTY 2- ISO, SEVO)
- Adult/Peds Circuit
- Power Cord
- Agent (MAC) Monitoring

The Anesthesia Machine should be supplied with complete standard accessories.

Certificate: CE , MDR or FDA

Country of Origin: UK/USA/Europe/Japan

SPECIFICATION OF OPERATING TABLE

Electro-hydraulic Controlled by Power Pedal (Multi-Purpose)

Should have following positions:

Head Raise, Back Raise, Leg Raise, Hi-Low Adjustment, Trendelenburg, Reverse Trendelenburg, Jack Knife and V-Jack Knife, Lateral Tilting and Chair Position, Lateral Position, Lithotomy Position and with X-ray Imaging.

Movements:

- Back Raise: +60° / -40° or more
- Head Section: +45° / -90° or more
- Hi-low adjustment from 680 mm to 1020 mm or more
- Hi-low Range: 340 mm or more
- Leg Section: +18° / -90° / 110° (outwards) or more
- Trendelenburg/Reverse Trendelenburg: ± 25° or more
- Lateral Tilt: ± 25° or more
- Manual Zero Position

Dimensions should be:

- Table Top Length 2000 mm or more
- Table Top Width 500 mm or more
- Table Top Height 680 mm to 1020 mm or more

Controls:

- Should be Dual Power Control System.
- **Manual and Electric adjustment.**
- **For electric positioning, should be continuously depress the power pedal after selecting the desired position.**
- Should have Electro-Hydraulic Controlled by Power Pedal.
- Oil-Hydraulic system controlled by Foot Pedal.
- Should be simple, Intuitive Pedal Operation.
- Should be obtain the preferred position, by position indicating rotary disk.

Drive System:

- Drive system should be Electro Hydraulic (controlled by power pedal).
- Should be Quiet Drive System.

Interchangeable Head Section Base/Foot Section Base Position:

- The head section base and foot section base should be swapped easily.

X-ray Imaging:

- Should have x-ray imaging facility.
- Cassette tunnel for the tray should be standard feature.
- Cassette should be inserted from the head end or the foot end.

Mattress Base:

- Should be Acrylic Resin (High Transparency).

Castor:

- Should be 01 swivel, and 02 fix.

Mattress:

- Material Should be Cover: Vinyl Leather, and Padding: Urethane Foam.
- Should be 70 mm thickness

Main unit fixation

- Manual brake and should be fixed stable to the floor.

Safe working load

- Safe working load should be 200 Kg or more.

Standard Accessories:

- Anesthetic Screen (L-Shape) (1pc)
- Mattress (1set)
- Aram Rest with Pad (1set)

All optional/additional/standard items must be manufactured by the same manufacturer.

Certification:

- Should be at least one certification from CE / MOHLW / FDA

Country of Manufacturer:

USA/Western EU/Japan

Latest Technology Endo gynecology complete solution**HYSTEROSCOPE**

- 1 Telescope 30°, size 2.9 mm, length 24 cm, with irrigation connector, for use with Examination Sheath and Operating Sheath (inside uterus).
- 2 Continuous-Flow Sheath, size 3.7 mm, length 18 cm, with suction connector, (Sheath in passive position).
- 3 Continuous-Flow Operating Sheath, size 4.4 mm, length 16 cm, with channel for semirigid instruments 5 Fr., with 1 stopcock and 1 LUER-Lock adaptor, (sheath in active).
- 4 Biopsy and Grasping Forceps, semirigid, double action jaws, 5 Fr., length 34 cm
- 5 Punch, through-cutting, single action jaws, semirigid, 5 Fr., length 34 cm
- 6 Biopsy Spoon Forceps, semirigid, double action jaws, 5 Fr., length 34 cm

15 Fr. BIPOLAR RESECTOSCOPE

Resectoscope Sheath, 15 Fr., oblique beak, color code: green, for use with Inner Sheath

Telescope Bridge, with channel for semirigid 5 Fr. operating instruments, for use with Resectoscope Sheath

Bipolar Working Element

Standard Obturator, for use with Resectoscope Sheath.

Cutting Loop, bipolar, 2 guide rods, 15 Fr., color code: green, sterile, for single use, package of 10, for use with Working Element.

Cutting Electrode, bipolar, 2 guide rods, 15 Fr., color code: green, sterile, for single use, package of 10, for use with Working Element.

Coagulation Electrode, bipolar, 2 guide rods, 15 Fr., color code: green, sterile, for single use, package of 10, for use with Working Element .

Cutting Loop, bipolar, longitudinal, 2 guide rods, 15 Fr., color code: green, sterile, for single use, package of 10, for use with Working Element

Bipolar High Frequency Cord, 400 cm	2
Plastic Container	1
Wire Tray f. Cleaning, 430x65x52mm	1

BIPOLAR DIATHERMY

High End-Set, power supply 220 - 240 VAC, 50/60 Hz, HF connecting sockets: Bipolar combination Multifunction Unipolar 3-pin + Erbe Neutral electrode combination 6.3 mm jack and 2-pin. System requirements: Software upgradable.

Special Features:

- Large Neutral Electrode for controlled plasma formation at the active cutting loop.
- Prolonged cutting service life.
- constant distance maintained between the active & neutral electrodes ensures a constant 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.
- improved hemostasis.
- Resection in saline solution reduces the risk of the TUR syndrome.
- Compatible with existing equipment (Sheaths, Telescopes,ETC)
- Excellent Hemostasis.
- Cost-Effective & Time -saving alternative to greenlight LASER vaporization.
- Enhanced visullization 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.
- Magnet plate on the unit enables easy & space-saving mount for resection box.
- Including:
- Basic unit,
- Mains Cord
- Connecting Cable, length 100 cm

FOOT PEDAL	1
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Technical Specifications of Laparoscope

Latest Technology HD 1920x1080 Laparoscopic advance Surgery System with instruments set

FULL HD VIDEO PROCESSOR

1	Camera Processor	Full HD latest Model
2	Image Quality	Full HD or better
3	Camera Input	Full HD camera Head/Video Endoscopes
4	Video output	X2 DVI out put
5	Image capturing & Recording	Should have Inbuilt recording facility as well as multiple usb ports for external device based/usb storage or better.
6	Special feature	Should be able to use with Rigid & flexible Video Endoscopes
7	Power requirements	100-120VAC/200-240VAC, 50/60Hz

Camera Head Full HD

1	Chip technology	Latest chip CMOS or better full HD (1920x1080P)
2	Resolutions	1920*1080 pixels
3	Scan mode	Progressive, 50 /60Hz,
4	camera head buttons	2 to 3 programmable buttons with remote functions
5	Focal length	focal length f=16mm
6	Zooming	Should have Digital OR Optic Zoom
9	Integrated Control	Should be able to control complete cameras system i.e. video processing module, Camera modules, Video Capturing, Still images. Through camera head.
10	Teaching Tools	System should have a teaching tools to point out the surgical area to students
11	Cleaning/Sterilization	Soakable, gas and plasma sterillzable.

LED LIGHT SOURCE UNIT

1	Lamp type	High Performance LED
2	Color Temperature	6400K
3	Lamp Out let	1
4	Control	Knob or Buttons,
5	Lamp life	20,000 hrs or more
6	Stand by	Should have stand by function
7	Fiber optic light cable	Same manufacturer light cable 4.6mm 240cm qty 01

5- 26" Full HD MONITOR from Same manufacturer

1	Max. screen resolution	1920 x 1080
2	Image Format	16:9
3	Video Signal Input	DVI, VGA, S-Video, Composite /FBAS
4	Video Signal Output	DVI, S-Video, Composite/FBAS
5	Power Supply	24V External Power Supply
6-	Monitor quality	From same manufacture

5- RECORDING SYSTEM FROM SAME MANUFACTURER

1	System type	In built system in processor or External Device
2	Still Images	HD Quality (JPEG)
3	Video Capturing	Full HD quality (MPEG4)
4	Dual function	should be able to capture still images and video recording at same time
5	Data Storage	External USB type or internal hard drive
6	Printer compatibility	Device or system should have compatibility for medical grade printer

40 Liter Endoflator from same manufacturer

a.	Display	LCD or better
b	Controls	Touch screen
c.	Max Gas Pressure	0-30mmHg or equivalent

d.	Max Gas Flow	0-40 l/min or equivalent
e.	Functions	Adult and Pediatrics on One Touch Function,
f.	Integrated Control	Should be control able thorough camera Head & keyboard
g.	Parameter display	Insufflations Pressure, Intraabdominal Pressure; 0-30mmHg, Gas flow: 0-40 l/min, Gas Consumption: 0-999L
h.	Power	100-240 VAC, 50/60Hz
I	Inlet Gas filter	Should have latest technology high pressure inline gas filter from OEM

Trolley Local with monitor holder

Autoclavable Laparoscopy Advance Surgery Instruments Set from Same Manufacturer

4k & HD Both Compatible Telescope 90Deg, 10mm, 30cm or better	1
Trocar 5mm	3
Trocar 10mm	3
Marry land dissecting forcep 16mmjaw, 5mm, 36cm	2
Babcock forcep ,5mm, 36cm	2
Scissor curved 5mm, 36cm	1
Johan forcep 5mm, 36cm	1
Gallbladder holding forcep 5mm, 36cm with locking handle	1
Bowel grasper 5mm, 36cm	1
Tooth grasper 5mm, 36cm with locking handle	1
Clip applicator 10mm	1
Needle holder 5mm ,	1
Claw forcep 10mm with locking handle	1
Suction irrigation tube 5mm 36cm	1
Hook electrode 5mm, length 36cm	1
Diathermy lead monopolar	1
Injection cannula	1
Veress needle 15cm	2
Reducer external 10/5mm	2
Knot tier	1
Facial closer forceps	1
Uterine manipulator with all accessories same oem	1
Uterine cannula with luer lock	1
Bipolar grasping forcep with bipolar cable	1
Insulated outer tubes for 5mm instruments	2
Trocar seal CAPS for 6mm trocar	20

Trocar seal CAPS for 11mm trocar	20
Camera head disposable covers from same OEM recommended	50pcs
Fan liver retractor 10mm	1
Instruments container for 10 to 12 instruments	1
Articulated Holding Arm with Multiple Movements	1
Instruments Holding jaw 5mm to 12mm	1
Extension Rod for Articulated holding arm (Laparoscopy Purpose)	1
Table clamp for holding system	1
Telescope 10mm, 11cm Exoscopy	1
Fiber optic light cable 4.8mm, 300cm	1
Telescope sterilization box for telescopes of 10mm	1
Myomectomy Screw	1
Laparoscopic 5mm	1

Ligasure bipolar Unit must be provided with the system and standard Ligasure instruments Laparoscopic and open

SPECIFICATION FOR PATIENT MONITOR

Should have touch screen operation.

Should be able to synchronized review data for >100 hours or 5 days.

User-friendly operation

Reliability, quality and performance

Specifications:

Display size should be 10-inch or more

Color TFT LCD touch screen

Resolution should be > 800 × 600 dots

Number of waveforms should be more than 3

Parameters:

Should include ECG, Respiration, NIBP, SpO₂, Temperature

Should be able to Saved waves 120 hours of one ECG wave

Trend graph should be of >100 hours or 5 days

Numeric value list should be of > 100 hours or 5 days

Arrhythmia recall should be of >100 hours or 5 days

Alarm history should be of > 100 hours or 5 days

Compatible with HL7

Battery operation time should be upto 6 hours

Should support time link review

Graphical Guide function of electrode placement should be available

Network Interface Standard

Should have USB INTERFACE

Should have option to connect at least 8 monitors with each other without central station.

Country of origin:

USA/EUROPE/ Japan

UP

DEPARTMENT OF PAEDIATRICS "A" WARD

AYUB MEDICAL COLLEGE & AYUB TEACHING HOSPITAL,

ABBOTTABAD,

No.PA/Pacds "A"/ATH/1771
To

Dated: 25/09/2025.

The Deputy Director (EME)
MTI, Ayub Teaching Hospital
Abbottabad.

Subject: SPECIFICATION FOR ICU VENTILATOR FOR INFECTIOUS DISEASE UNIT PEDIATRICS.

Reference to your letter No.ATH/EME/1927-29/2025, dated: 01-09-2025. The following specifications of equipments is as under:-

Modes of Ventilation:

The device offers multiple ventilation modes to suit different clinical needs:

- Atleast 15 inch color touch screen or more.
- Ventilator should accommodate adults, pediatric and neonatal patients.
- Volume Control
- Assisted Continuous Mandatory Ventilation (CMV)
- Pressure Control (PC)
- Assist Pressure Control
- Continuous Positive Airway Pressure (CPAP)
- Synchronized Intermittent Mandatory Ventilation (SIMV) with Volume Control and Pressure Control
- Pressure Support
- Bi-level Positive Airway Pressure (Bi-PAP)
- Airway Pressure Release Ventilation (APRV) or equivalent
- Noninvasive Ventilation (NIV) modes with PC, SIMV, and Pressure Support
- High Flow Oxygen Therapy.

Control and Measurement Capabilities:

The ventilator simultaneously displays set and measured parameters, including:

- Inspiratory tidal volume ranging from 02 to 2000 ml or more
- Respiratory frequency between 5 to 120 breaths per minute or better
- SIMV breath frequency from 1 to 50 bpm
- Inspiratory pressure from 0 to 80 cmH₂O or better
- Inspiratory flow of 80 L/min or higher
- Positive End-Expiratory Pressure (PEEP) from 0 to 50 cmH₂O or better
- Fraction of inspired oxygen (FiO₂) adjustable from 21% to 100%

Monitoring parameters include total breath rate, oxygen concentration via paramagnetic or non-consumable sensors, expired minute volume, I:E ratio, peak and mean pressures, and lung mechanics with pressure and volume loops. Additional functions include backup ventilation, breath circuit compliance compensation, inspiratory and expiratory holds, trigger sensitivity, spontaneous breath indication on curves, 72-hour trend data, automatic weaning with spontaneous breathing trials, and waveform display on the ventilator screen. The expiratory valve is sterilizable or autoclave-able and detachable. Data transfer to USB or equivalent for external review and printing is supported.

Alarm System:

The ventilator includes alarms for critical conditions such as apnea, AC power failure, high and low expired minute volume, peak airway pressure, breath rate, FiO₂ variation, gas supply source failure, and low battery status to ensure patient safety and device reliability.

Additional Features:

- Integrated nebulizer for medication delivery during ventilation
- External compressor compatibility with hospital central medical pipeline systems, with automatic switch-over in case of central air supply failure
- Servo-controlled heated humidifier with temperature monitoring and alarms
- Air compressor supplied by the same manufacturer for compatibility and mounted on the ventilator trolley
- Power supply requirements include 220 V, 50 Hz electric input with built-in or integrated battery backup ensuring uninterrupted operation
- Built-in end-tidal CO₂ (EtCO₂) monitoring (capnography).

Accessories:

- Hinged arm (Qty. 1)
- Test lung for Paeds (Qty. 1)
- Reusable breathing circuits for adult, pediatric, and neonatal patients (Qty. 1 each)
- Reusable expiratory valves (Qty. 2)
- Nebulizer kit
- Disposable NIV masks in sizes small, medium, and large (Qty. 2 each)

Optional Items (Mandatory to Quote)

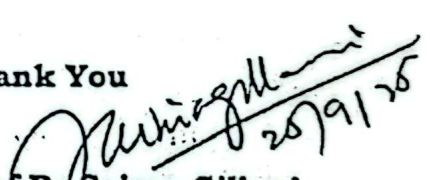
Optional enhancements include:

- Patient data transmission to electronic medical records (EMR) using HL7 or equivalent standards
- Additional built-in or integrated battery backup.

Manufacturing:

The ventilator is specified to originate from the USA, Europe, or Japan.

Thank You


Prof. Dr. Saima Gillani
FCRS/DHPE/AdCMT
Chairperson & HOD
Paediatrics Department.
MTI, AMC/ATH,
Abbottabad.

DEFIBRILLATOR

Defibrillator with Built in monitor and recorder, mains 200-240VAC 50Hz and Rechargeable Battery. Output energy 2 to 270 Joules. Adjustable from 3 to 50 Joules for Internal / Pediatric Defibrillation. Fast shock and continuous observation:

Defibrillator takes less than 4 seconds to charge 200 J with either AC power or a fully charged new battery.

Faster charging when VF is observed.

The ECG baseline recovers Maximum 3 seconds after defibrillation.

In AED mode, "Continuous VF analysis" analyzes the ECG waveform also during CPR

Monitor size 6.5 inch or more , TFT Color LCD, Lead synchronizer,

Sweep speed 25 or 50mm/Sec,

Digital display of heart rate with high/low alarm.

Energy Charging : Control on front Panel & Apex Paddle.

Charge Indicators:

Visual Indication of Charging Process.

Audible Indication of Charge up to selected energy level.

Selected Energy Level Value Displayed on Monitor.

External Pediatrics Paddles Attachment.

ECG Lead: Paddle, I, II, III

Sensitivity: X1/4, 1/2, 1, 2, 4, auto gain

Baseline Recovery Time: Less than 3 Sec after defibrillation at 270J.

Automated External Defibrillation

Alarms:

High and Low Heart Rate Alarms

Low Battery Warning.

Recorder:

Paper Speed: 25, 50 mm/s.

Sensitivity: 10 mm/mV +/-10%

Printing density

Recorded waveforms:

ECG, ECG + SpO₂, ECG + CO₂ (selectable; SpO₂ or CO₂ available when SpO₂ or CO₂ is measured).

Power Requirements:

AC Operation

AC line voltage: 100 to 240 V

AC line frequency: 50 or 60 Hz.

Adults and Paed's Paddles, built in recorder, speed 25mm/sec with standard paper.

SPECIFICATION FOR 03 CHANNEL ECG MACHINE

- Display should be color and more than 4 inches or more
- Should view 12 -Lead ECG waveform on the screen.
- 3 channel ECG machine with 12-lead ECG signal processing.
- 3.5" TFT Color LCD or more
- 12 Leads ECG simultaneous acquisition
- Simultaneous display of 3/6/12 leads ECG waveform
- ECG waveform in AUTO/Manual mode
- Diagnosing ECG waveform parameters automatically with self-interpretation
- "Lead off" and "Lack of paper" alarms
- Patient History Management
- Should support SD card for external storage
- Capable to store approx 400 ECG files without SD CARD and more than 3000 on external storage.
- Defibrillator proof
- Should comply with IEC-60601-2-51
- Country of Origin: Europe, USA, JAPAN

Digital Mobile X-ray with flat panel detector technical specification

Mobile X-ray unit:

- General-purpose digital mobile X-ray unit for radiography of the recumbent and seated patient
- High-frequency generator: (50 kHz) or more
- Ever ready: When all batteries are depleted, the unit should be moved manually and examinations should be performed with mains power
- Counterbalanced arm should be rotated by $\pm 90 = 180$ degrees and allow easy adjustment for all the different projections
- X-ray tube should be flexible

Generator:

- Nominal voltage Max.: 133 kV or better
- Max mA: 450 mA or better
- Max. power output: 35 kW or better
- kV range: 40 kV to 133 kV or better
- mAs range 0.32 mAs to 360 mAs or better
- Shortest exposure time: 1 ms or better
- Max. exposure time: 3.2 s or better
- Electric shock Protection: should be present

x-ray tube:

- Tube should have Rotating-anode
- Microprocessor-based adjustment and regulation during exposure
- Focal spot nominal value (single / dual): 0.8 / 1.2
- Anode angle: 15° or better
- Anode speed Up to: 9,000 r.p.m. or better
- Heat storage capacity of tube housing: 1,100KHU or better
- Heat storage capacity of anode: = 122KHU or better
- Collimator: Manually adjustable multileaf collimator, rotatable $\pm 90^\circ$ or better
- Collimator light and light field intensity LED min. 180 lux or better
- Tube housing assembly Maximum temperature: 60°C , maximum 2,000 mAs/h

Detector:

- Detector technology: Cesium iodide scintillator with amorphous silicon technology
- Dimensions: 14 x 17"
- Matrix : 2350 x 2866
- Pixel size: $150\ \mu\text{m}$ or better
- Digitization depth: 16 bits
- DQE: 70%
- Data transmission WLAN
- Image preview time: < 2 s
- Full image view time: < 5 s

- Battery: Lithium-ion, rechargeable, exchangeable
- Battery operation time(detector):
Up to 1050 images
Up to 6.5 h during regular utilization
- Charging location: Onboard detector holder, or external battery charger
- WLAN Standard

Image processing:

- Acquisition and preprocessing: Selection of generator parameters, setting of parameters for image preprocessing amplification, harmonization, edge enhancement and LUT
- Display 17" color high contrast display for touch screen
- Image display Fit to window view of full image
- Image processing functions like Rotation, vertical and horizontal reversal, zoom, windowing for contrast/brightness, black/white image inversion
- Detail visualization even with large differences in absorption-like bone and soft
- Text functions Marking, annotation, image comments, R/L markers
- Gridless Acquisition: Gridless acquisition (esp. Thorax) of functionalities for superior contrast and easier handling

Acquisition hardware:

- PC imaging system: Should be high end based on Windows 10
- Memory capacity: 10,000 images or better

DICOM network interfaces

- DICOM 3.0 Transmission of images to a DICOM network for viewing and archiving
- DICOM Dose Structured Report Sending of dose values for each study to an archiving system
- USB and DVD / CD should be available
- WLAN should be available

Operating voltage:

- Line voltage 100 V to 240 V, 50/60
- Standard battery pack:
- Battery Sealed lead acid batteries or better rechargeable
- Battery operation time 6 h/200 exposures (X-ray Machine) or better

SPECIFICATION OF ICU/CCUMOTORIZED BED

Motorized Electric Bed (4-Motors)

Should have positions (Back Raise, Knee Raise, Hi-Low Adjustment, Trendelenburg, Reverse Trendelenburg and Cardiac Chair Position) with X-ray radiolucent backrest)

Movements:

- **Stress saver raise**
(Back raise to reduce stress on patient's body)
- Back Raise 0-70°
- Knee raise 0-25°
- Hi-low adjustment from 350mm to 700mm (Mattress base)
- Trendelenburg/Reverse Trendelenburg position $0 \pm 12^\circ$
- **One button cardiac chair position**

Controls:

- Should have Integrated (Built in side-rail) and separate handheld Controller to perform the various bed positions.

CPR Function:

- **Should have both electric CPR function and Manual CPR function.**

Battery:

- Should have Battery with low battery indicator.

Side Rails:

- Should have side rail meeting safety standard of IEC 60601-2-52.
- Should Have **Anti-tampering Lock feature**. (Prevents patient from falling over when patient is attempting to lower the side rail by himself while laying on bed)
- Should have Flexi Grip (grip on siderail to help patient to stand up more easier)
- Should be slide down with **Gas Spring shock absorber**

Mattress Base:

- **Should be Made of steel**
- Should be Seamless smooth surface for easy and quick cleaning.

Low Bed Height:

- **Should have lowest bed height to 350 mm.** (Allows patient to place his heels firmly on the floor)
- **Should have Bed height 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 and for other medical assistance)

Head/Foot Board:

- Should be secured to prevent accidental removal.
- Detachable Head/Foot Boards

Roller Bumpers:

- Should have Roller bumpers at each corner of bed.

IV Pole:

- Should have four adjustable hocks with height adjustment.
- Should have facility to place the IV pole on each side of bed for urine and drainage bags etc.

Locking System:

- Should have total lock system with central pedal, and with see-saw pedal and three positions of "Free", "Lock" and "Steer".

Castor:

- Should have 125 mm single wheel castor

Bed Dimensions should be:

- Bed Length 2195mm or more without extension.
- Bed Width 985mm or more
- Total height 755 mm to 1105 mm or more
- Mattress Base Height 350 mm to 700 mm or more

Mattress:

- Size: W: 860mm L: 1995mm
- Mattress Cover should be:
 - * MRSA anti-bacterial treated.
 - * Water proof surface and Flame retardant.
 - * Material: Cover Polyester/padding urethane foam
 - * Mattress must be manufactured by same company manufacturing beds.

Safe working load 230 KG or more.

Additional Accessories:

Bedside Table (Over Bed Table):

- Height Adjustment
- Castor: 40mm dia x 4pcs

Bedside Cabinet:

- Pull out table included 40mm dia castor x 4pcs
- Dimensions: (W) 445mm x (D) 460mm x (H) 780mm
- Body powder coated steel
- Table & Cabinet top & Drawer: ABS Plastic

All Optional items must be manufactured by same manufacture.

Certification:

- Should be Dual certification from CE / MOHLW / FDA

DEPARTMENT OF ENT
AYUB TEACHING HOSPITAL
ABBOTTABAD.

No. 1654 /ENT

Dated. 11 /11/2025.

To

Dy: Director EM
MTI Abbottabad

Subject:

**SPECIFICATION OF ELECTROMEDICAL
EQUIPMENT/INSTRUMENTS**

Ref: your letter No. ATH/EME 1936-38/2025 dated 01/09/2025 on
the subject noted above.

As desired the specification of the equipment/instruments are attached
herewith for further necessary action pleas.



Prof. Dr. Farida Khan
Chairperson ENT Department
Ayub Teaching Hospital
Abbottabad

TYMPANOMETRY

Country of Manufacturing: USA, Europe or Japan.

Technical Specification:

Test Details:

220 Hz or better Tympanometry

Manual Tympanometry.

Ipsilateral reflex testing.

Contralateral reflex testing.

Reflex Latency

Reflex Decay

Eustachian Tube Function test non perforated tympanic membrane.

Eustachian Tube Function test perforated tympanic membrane.

Eustachian Tube Function test Patulous tympanic membrane.

Tympanometry Test Range:

Probe Frequency: 220 Hz, 650 Hz, 800 Hz, 1000 Hz or better

Probe Tone Level: 90 dB SPL or better .

Air Pressure Range: +300 to -500 daPa or better.

Ear Volume Range: 0.1 to 6.0 ml or better

Pump speed: Automatic, Fast 300 daPa/s, Medium 200 daPa/s,
Slow 100 daPa/s.

Reflex Test Range:

Tone - Contra Reflex: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz,

Tone - IPSI Range: 500, 1000, 2000, 3000, 4000 Hz

Intensity max: 90, 100, 120 dBHL.

Stimulus duration: 750 ms.

Intensity Setting: Manual.

Internal memory that can store up to 500 clients and 50,000 sessions.

Calibration cavities.

Adjustable handheld probe.

10 inch or more high resolution color display 1024 x 600.

Thermal Printer on command via USB.

Accessories:

Clinical Probe.

Power Supply

Contralateral headphone.

Cleaning clothes.

Carrying Bag.

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BERA SYSTEM FOR COCHLEAR IMPLANT

Country of Manufacturing: USA, Europe nor JAPAN.

Technical Specification:

A versatile device offering auditory evoked potentials (AEP), auditory steady state response (ASSR), and otoacoustic emissions (OAE). Designed to fit seamlessly into your workflow and offers complete reliability and perfect results. The unit should have ABR for Cochlear Implant with Otoacoustic Emission (OAE) and Auditory steady state response (ASSR).

Technical Specs:

Threshold & neurological ABR testing & eABR

Bayesian weighting

Residual noise calculator

Fmp calculator

SNR 3:1 ratio calculator CR, RA, INC waveform markers

Normative latency data for click, NB CE-

CE- LS & NB CE- LS

Single/split screen

AMLR, ALLR & P300/MMN testing

Cochlear micro phonic & ECoChG testing

ECoChG Area Ratio Calculation

LS for optimized threshold assessment

Oto-access Database.

ACCESSORIES:

All standard Accessories

User Manual.

Microsurgical System For Otorhinolaryngology

Equipped with:

- . Manual five step apochromatic magnification changer
- . Manual focus with continuously adjustable working distance from 200 to 400 mm
- . Adjustable hand grip
- . Light emitting diode illumination providing natural color light at high intensities
- and effective visualization in deep surgical cavities
- . Integrated spot illumination
- . User's interface and intuitive balancing for smooth and effortless single handed operation of the microscope
- . Mode control and adjustable illumination
- . Tiltable binocular tubes 0 to 180° with adjustment of interpupillary distance
- . 10X wide field eyepieces with dioptic adjustment
- . Integrated HD video camera 1080p integrated in the optical head with integrated HD recorder for recording on external USB media
- . Floor stand with casters for flexible use in several treatment rooms
- . Asepsis set
- Along with:
 - . External 40" LED TV screen
 - Complete as above
 - Country of Origin: USA / Europe / Japan

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TWO CHANNEL PURE TONE AUDIOMETER

- Frequency range: 125 to 8000 Hz
- Air Conduction range: -10dB HL to 120 dB HL
- Bone conduction range: - 10 dB HL to 85 dB HL
- Tone test: HL, MCL and UCL
- Test signals: Pure tone, warble and pediatric noise (Pulsed and continuous)
- Special tests: Pure Tone Stenger, SISI, Tone Decay, ABLB, MLB and Langenbeck Test
- Level steps: 5 dB, 2 dB or 1 dB
- Masking: Narrow band and white noise
- Speech audiometry:
- Test signals: Microphone, auxiliary and wave
- Test type: SRT, WRS, MCL and UCL
- Masking noise: Speech and white noise
- Special test: Speech stinger, Master Hearing aid
- Integrated microphone
- General:
- Display: 5.7" TFT Color display, 640 x 480
- Display of frequency, intensity and other parameters Alpha numeric and graphic
- Printer: Thermal printer
- Power supply: 100-240V, 50/60 Hz
- Accessories:
- AC Headset
- BC Headset
- Patient response switch
- Power supply cable
- Talk back microphone
- Connection :USB to PC
- With PC software print and data

Farrell's

Sr. No.	Description	Qty.
1	ENT Treatment Unit Made of strong, durable and corrosion resistant metal. Metal and PU work surfaces are smooth for easy cleaning and durable against disinfectant solutions	3
	Clean Endoscope Holder (Rigid) Heated For heated storing of clean endoscopes in the function column for prevention of bedewing	3
	Deposit of Used Endoscope Holder (Rigid) Two storage quivers inclusive holder for used rigid endoscopes with 2x storage quivers. Enables storage of used optics in the workspace after employment without disconnection from the light cable. Filling with disinfection solution possible.	3
	Quiver, flexible endoscopes with Teflon protection cover	3
	Quiver, used flexible endoscopes with Teflon protection cover Filling with disinfection solution possible. The quiver should be opened on the rear side for thorough cleaning.	3
	Mirror quick-heating Enables a short-time heating of instruments to body temperature.	3
	Suction mechanism: Standard 55 l/min resp. -98 kPa with automatic switching when the suction hose is taken out (light barrier) with 1.25 L bottle and bacterial filters. Unit should have hose rinsing of cannulae, suction attachment and secretion hose - for prevention of plugging. Manual refilling of the supply of canister with rinsing water.	3
	Compressed air module Compressed air module with max. 2bar pressure with handle for fast one-handed adaption of different medicine sprayers which are included in the workstation. It should have 2 x straight sprayer for liquid medicine inclusive changeable sprayer bottle, 1 x Sprayer with flexible jet for liquid	3
	Light Package LED 2-Channel 2 channels for connecting the wired headlight and the LED light source for endoscopes; switchable, one of each channel can be activated. High-performance LED light handle, 2 Watt/220 Klux/175 lumen, low operating costs due to the LED-durability of approx. 50,000 hours, connection with quick coupling for any optics, cable length: 1.90 m Support for light source, ready to hand at the function column	3
	High Performance LED Headlight with Lithium-Ionic rechargeable battery LED headlight with long-life high performance white light LED Durability: 50,000 h, focusing optic infinitely variable. Headlight suspension with automatic switching. Headlight should be connectable through cable with ENT unit. LED Brightness: 50 lumen / 60 Klux, luminous field- ϕ : 25-55 mm in 17 cm distance before lamp, focusable,	3
	Monitor Holder	3

Paide

	Instrument cabinet with deposit for used instruments, waste bin and 2 drawers Instrument deposit with 3 big trays to be covered 2 x writing resp. working surface, to be pulled out and arrested 2 x open storage compartment 1x drawer for deposit of used instruments 1x waste bin in drawer with push-open mechanism 2x drawers	3
	Spare bowl for used instruments with cover Enables a smooth workflow at the treatment unit during instrument cleaning/disinfection.	3
2	FHD Camera System with Camera Control Unit with Compatible 21" LED Monitor	3
	CMOS based Full HD Resolution with Progressive scan	
	Natural color reproduction for strain free working	
	Built in 10x Digital Zoom without motion artifact	
	Recording facility and image capturing	
	Programmable Camera head keys	
	Multiple users settings	
	Progressive Scan	
	Freeze Function	
	ON-Screen-Menu	
	E-flip & Mirror Image	
	Technical Data:	
	Video System: Progressive scan	
	Resolution: FHD 1920x1080P	
	Aspec Ratio: 16:9	
	Outputs: 1x DVI, 1x HDMI, 1x HD-SDI, 1x Video Composite	
	Camera Head: C-Mount thread, immersable, four push-buttons for remote function, three meter flexib	
	Optic f = 21 mm, apochromatic system	
3	Doctor's Chair with 5 double castors	3
	Height adjustment by gas spring system	
	Backrest infinitely variable in height	
	Rotatable backrest (approx. 180°) for use as elbow rest	
	Technical Data	
	Seat height: 54 - 73 cm	
	diameter of seating surface: 40 cm	
	Height adjustment: by gas spring system	
	Dimensions (H x W x D): 105 x 45 x 57 cm	
	Weight: 14 kg	
4	Endoscopes	
i	Laryngoscope HD 90°, Ø 10 mm, L = 190 mm	3
ii	Otoscope HD 0°, Ø 4 mm, L = 50 mm	3
iii	Sinuscope HD 0°, Ø 4 mm, L = 175 mm	3
iv	Sinuscope HD 30°, Ø 4 mm, L = 175 mm	3
v	Flexible Fiber-Nasopharyngoscope 3.2 mm	3

Paide

	Flexible fiber-endoscope for the nasopharyngeal zone Controllable 160° angulation and 85° field of view provide optimal viewing conditions. Suitable for the connection to conventional light sources and endoscopic cameras. Scope of delivery 1x flexible Fiber-Nasopharyngoscope 3.2 mm 1x leakage tester with silicone tube and adapter 1x pressure compensation cap / EtO cap 1x equipment case	
	Country of Origin: USA/Europe/Japan	
5	Electrosurgical Unit with Complete ENT Electrodes	3
	Universal electrosurgical platform with microprocessors of the latest generation providing energies adapted in real time to the evolution of the	2
	370 W complete electrosurgical unit, with a wide range of monopolar and bipolar effects	2
	Specific waveforms dedicated to endoscopic polypectomy	2
	A unique all-in-one system, which can seal, dissect and cut, dedicated to ENT and other delicate procedures	2
	Safe and efficient up to 7 mm diameter, with an acoustic validation signal at the end of the sealing cycle	2
	Saving 99 personal programs	2
	3 High Frequency outlets: 1 monopolar, 1 bipolar and 1 vessel sealing	2
	Saline cut under saline irrigation	2
	Monopolar Cuts: 200 - 370W or better	2
	Monopolar Cuts under liquid: 340W or better	2
	Monopolar Coagulations: 100-170W or better	2
	Coagulation with Argon: 100 W or better	2
	Bipolar Coagulations: 100-170W or better	2
	Vessel Sealing System: 150W or better	2
	Country of Origin: USA/Europe/Japan	

Fawaz

FESS advance Surgery System with instruments set

Camera Head 4K UDH

1	Resolution	3840x2160 or better
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Modular Multiple Video Processor 4K

2	Image orientation	Should have crystal clear sharp image, with multiple advance imaging features for diagnostic purpose.
3	Compatibility	Should be compatible with all kind of telescopes

30 "4K Monitor Medical Grade

1	Resolution	3840x2160 or better
2	Brightness	350cm/m2 or better
3	Aspect Ratio	16:9

LED LIGHT SOURCE UNIT

1	Lamp type	High Performance LED
2	Color Temperature	6400K
3	Lamp Out let	1
4	Lamp life	20,000 hrs or more
5	Stand by	Should have stand by function
6	Fiber optic light cable	Same manufacturer light cable qty 01

5- RECORDING SYSTEM

MASTOID DRILL ALONG WITH MICRO DRILL SYSTEM

S No.	Description	Qty2
ENT HIGH SPEED MASTOID DRILL SYSTEM WITH MICRO DRILL		
1	Motor control unit with color display, touch screen control, power supply 100-240	1
3	Two-Pedal Footswitch,	1
4	Suction or irrigation pump, incl.	1
5.	mains cord, power supply 100 - 240	

6	Tubing Set, Irrigation, sterile, for single use, package of 10,	1
7	Micro Motor 80k, With Connecting Cable	1
8	Drill Handpiece, length 70 mm, angled, Speed 80,000 rpm,	2
9	Drill Handpiece, straight, speed 80,000 rpm, length 70 mm,	2
10	Standard Straight Shaft Burr, stainless, sizes 006-070, length 7 cm, set of 15	2
11	Tungsten Carbide Straight Shaft Burr, stainless, sizes 006-070, length 7 cm, set of 15	2
12	Diamond Straight Shaft Burr, stainless, sizes 006-070, length 7 cm, set of 15	2
13	Universal Spray, 500 ml bottle with nozzle.	1
MICRO EAR DRILL SYSTEM		
15	Micro Ear drill hand piece with speed 12rpm including connecting cable,	1
19	Tungsten Carbide Micro Ear Burr, diameter 0.6 mm, sterile, for single use, 12,000 rpm.	5
20	Tungsten Carbide Micro Ear Burr, diameter 1.0 mm, sterile, for single use, 12,000 rpm.	5
21	Diamond Micro Ear Burr, diameter 0.6 mm, sterile, for single use, speed 12,000 rpm.	5
22	Diamond Micro Ear Burr, diameter 1.0 mm, sterile, for single use, speed 12,000 rpm.	5
23	Diamond Perforator Micro Ear Burr, diameter 0.35 mm, sterile, for single use, speed 12,000 rpm.	2

FUNCTIONAL ENDOSCOPIC SINUS SURGERY SET(FESS)

S No.	Description	Qty
TELESCOPE FOR FESS		
1	HOPKINS® Wide Angle Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, autoclavable .	1

Fawzi

2	HOPKINS® Wide Angle Forward- Oblique Telescope 30° , Enlarged view, diameter 4 mm, length 18 cm, autoclavable.	1
3	HOPKINS® Wide Angle Lateral Telescope 70° , enlarged view, diameter 4 mm, length 18 cm, autoclavable.	1
4	HOPKINS® Wide Angle Forward- Oblique Telescope 45° , enlarged view, diameter 4 mm, length 18 cm, autoclavable.	1
5	Wire tray for cleaning, sterilization and storage of one rigid endoscope., including holder for light- post-adaptors, silicone telescope holders and lid. External dimensions (w x d x h): 290 x 60 x 52 mm, For rigid endoscopes with up to 5 mm diameter and 20 cm working length	5
SHAVER & DRILL SYSTEM FOR FESS SURGERY		
6	Motor control unit with color display, touch screen control, two motor outputs, with integrated unit incl. mains cord and connecting cable	1
8	Two-Pedal Footswitch, one-stage	1
9	Suction or irrigation pump, incl. mains cord,	1
10	LISENCE SOFTWARE	1
11	Tubing Set, Irrigationsterile, for single use, package of 10.	1
12	Shaver Handpiece, to be run through shaver system with speed of 10000 rpm for shaver blades and 35000rpm for shaver burrs with integrated irrigation channel.	2
13	Shaver Blade, with integrated irrigation for handpiece, straight, sterilizable, double serrated cutting edge, rectangular cutting window, diameter 4 mm, length 12 cm.	2
14	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,	1
15	Suction Shaver Blade, with integrated irrigation for Handpiece, curved 65° , sterilizable, cutting edge serrated backwards, rectangular cutting window, diameter 4 mm, length 12 cm,	1

16	Shaver Blade, with integrated irrigation for handpiece, curved 40°, sterile, for single use, package of 5, cutting edge serrated backwards, double serrated, rectangular cutting window, diameter 4 mm, length 12 cm.	1
17	Sinus Burr 35k, with integrated irrigation, curved 15°, bud drill, burr diameter 4 mm, shaft diameter 4 mm, length 12 cm, sterile, for single use, package of 5, for use with Shaver Handpiece	1
18	Sinus Burr 35k, with integrated irrigation, curved 40°, diamond head, burr diameter 5 mm, shaft diameter 4 mm, length 12 cm, sterile, for single use, package of 5, for use with Shaver	1
19	Sinus Burr 35k, with integrated irrigation, curved 70°, diamond head, burr diameter 3.6 mm, shaft diameter 4 mm, length 12 cm, sterile, for single use, package of 5, for use with Shaver	1
20	Micro Motor 80k, consisting of: Motor 80k, "with Connecting Cable,	1
21	Drill Handpiece, angled, 80,000 rpm, length 70 mm, for use with Micro-Motor 80k and straight shaft burrs	1
22	Handpiece, straight, 80,000 rpm, length 70 mm, for use with Micro-Motor 80k and straight shaft burrs	1
23	Tungsten Carbide Shaft Burrs, stainless, sizes 006-070, length 7 cm, set of 15	1
24	Diamond Straight Shaft Burrs, stainless, length 7 cm, sizes 006-070, set of 15	1
26	Universal Spray, 500 ml bottle, Universal Spray, 500 ml WITH NOZZLE.	1
27	Cleaning Adaptor for cleaning shaver handpieces	1
28	Tray, for Cleaning, Sterilization and Storage of Accessoires, for paranasal sinus shaver system, for storage of: up to 7 shaver handpiece and connecting cable	1

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FESS INSTRUMENTS SET

29	Nasal Forceps, straight, size 1, with cleaning connector, working length 13 cm	1
30	Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm	1
31	Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm	1
32	Nasal Cutting Forceps, straight, through-cutting, BLAKESLEY shape, size 1, width 3.5 mm, with cleaning connector, working length 13 cm	1
33	Nasal Forceps, end of sheath 25° upturned, through-cutting, with straight jaws, BLAKESLEY shape, width 3 mm, with cleaning connector, working length 13 cm	1
34	Antrum Punch, backward cutting, sheath 360° rotatable, with fixing screw, working length 10 cm, Take-apart sheath, for use with cleaning adaptor	1
35	Punch, circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with cleaning connector, working length 18 cm,	1
36	Antrum Grasping Forceps, jaws curved downwards, Fixed jaw curved 90°, movable jaw backward opening 120°, with Cleaning connector, working length 10 cm	1
37	Antrum Grasping Forceps, jaws curved upwards, fixed jaw curved 90°, movable jaw backward opening 120°, with cleaning connector, working length 10 cm	1
38	Nasal Scissors, straight, with cleaning connector, working length 13 cm	1
39	HALLE Antrum Curette, malleable, size 1, length 21 cm	1
40	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	1

David

41	Bipolar High Frequency Cord.	1
42	Double Spoon Forceps, vertical opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, workinglength 13 cm	1
43	Double Spoon Giraffe Forceps, 55° upturned, vertical opening, spoon diameter 3 mm, with cleaning connector, working length 13 cm	1
44	FREER Elevator, double-ended, semisharp and blunt, length 20 cm	1
45	FREER Suction Elevator, with stylet, length 19 cm	1
46	Frontal Sinus Seeker, double- ended, No. 3, one size curved 77° , other side curved 90° , forward angle, length 22 cm	1
47	Probe, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm	1
48	Suction Tube, with mandrel and cut-off hole, with distance marking at 5 - 9 cm, 5 Fr., working length 10 cm	1
49	Antrum Curette, oblong, small size, length 19 cm	1
50	Sickle Knife, pointed, length 19 cm	1
51	v. EICKEN Antrum Cannula, LUER- Lock, with cut-off hole, short curve, outer diameter 2.5 mm, length 12.5 cm	1
52	Punch, detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm	1
53	v. EICKEN Antrum Cannula, LUER- Lock, long curved, outer diameter 3 mm, length 15 cm	1
54	Plastic Container, for Sterilization and Storage of Variable Instrument Sets, perforated, with transparent lid, with silicone mat, two- level storage, (1 additional insert), external dimensions (w x d x h): 545 x 260 x 115 mm, consisting of: Snap-in Clip, package of 12 Silicone Tie-Downs, package of 12 Tool, The plastic containers are suitable for steam, gas and hydrogen peroxide sterilization & Original Equipment Cart	1

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SURGERY

NO	Description	QTY
	RHINOPLASTY SET (POLYPECTOMY SET SET CONSISTS OF:	1
1	CONTAINER 11" X 13"	2
2	KILLIAN NASAL SPECULA 50MM FIG. 2	2
3	KILLIAN NASAL SPECULA 75MM FIG. 3	2
4	KILLIAN NASAL SPECULA 90MM FIG. 4	2
5	JOSEPH ELEVATOR 4MM 16CM / 6 1/4"	2
6	MALTZ RASPS WITH T/C 17.5CM / 6 3/4" FIG. 1	2
7	MALTZ RASPS WITH T/C 17.5CM / 6 3/4" FIG. 2	2
8	FREER ELEVATOR SHARP/BLUNT 18CM / 7"	2
9	HOWARTH ELEVATOR 21.5CM / 8 1/2"	2
10	COTTLE CHISEL 4MM 18CM / 7"	2
11	COTTLE CHISEL 7MM 18CM / 7"	2
12	COTTLE CHISEL 9MM 18CM / 7"	2
13	SILVER NASAL CHISEL LEFT	2
14	SILVER NASAL CHISEL RIGHT	2
15	SILVER NASAL CHISEL STRAIGHT	2
16	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 2 LEFT	2
17	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 3 RIGHT	2
18	MIDDLETON-JANSEN SEPTUM FCP 19CM / 7 1/2"	2
19	JOSEPH NASAL SAW LEFT 19CM / 7 1/2"	2
20	JOSEPH NASAL SAW RIGHT 19CM / 7 1/2"	2
21	COTTLE HOOK 14.5CM / 5 3/4"	2
22	COTTLE HOOK 14.5CM / 5 3/4" LEFT BULB	1
23	COTTLE HOOK 14.5CM / 5 3/4" RIGHT BULB	1
24	COTTLE ALAR PROTECTOR 150MM	1
25	COTTLE ELEVATOR 23CM / 9" D/E	1
26	COTTLE COLUMELLA FCP 10CM / 4"	1
27	COTTLE BONE MALLET 30MM / 350G 19CM / 7 1/2"	1
28	COTTLE HOOK 15CM / 6"	1
29	AUFRICHT RETRACTOR 16CM / 6 1/4"	1
30	GILLIES NERVE HOOK (FIG. 1) 18CM/7"	1
31	ADSON BROWN TISSUE FCP 12CM/4 3/4"	1
32	GIERTZ-STILLE RIB SHEAR 27CM / 10 1/2"	1
33	DOYEN RASPATORY 17CM / 6 3/4" ADULT	1
34	DOYEN RASPATORY 17CM / 6 3/4" ADULT	1
35	MOD USA GOUGE 6MM 16CM / 6 1/4"	1
36	MOD USA GOUGE 12MM 16CM / 6 1/4"	1
37	STILLE BONE OSTEOTOME 10MM STR 20CM/8"	1
38	SEMB BONE HOLDING FCP 19CM / 7 1/2"	1
39	STEVEN TENOTOMY EYE SCISSOR POINTED STR 11.5CM/4 1/2"	1
40	STEVEN TENOTOMY EYE SCISSOR POINTED CVD 10.5CM/4 1/4"	1
41	METZENBAUM SCISSOR STR BL/BL 14.5CM/5 3/4" FIG. 1	1
42	METZENBAUM SCISSOR CVD BL/BL 14.5CM/5 3/4" FIG. 1	1
43	HALSEY NEEDLE HOLDER T/C 13CM/5" SERR	1
44	SCALPELL HANDLE NO. 3	1
45	FERGUSSON SUCTION TUBE 17CM 6FIG	1
46	FERGUSSON SUCTION TUBE 17CM 8FIG	1
47	FERGUSSON SUCTION TUBE 17CM 10FIG	1

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	FERGUSSON SUCTION TUBE 17CM 12FIG	1
	FERGUSSON SUCTION TUBE 17CM 14FIG	1
50	Stainless steel OSTEOTOME RIGHT CURVED 7 X 175MM	2
51	Stainless steel OSTEOTOME LEFT CURVED 7 X 175MM	2
52	Stainless steel OSTEOTOME STRAIGHT 7 X 175MM	2
53	Iris scissors 4.5 to 5 cm straight and curved	2
54	Iris scissor 5cm straight and curved	2
55	Turbineotomy scissor	1
56	Luc's forecep	1
57	Sheen grid stainless steel plate	2
58	Castroviejo caliper (Vernier caliper)	2
59	Cottle scissors	2
60	Teorhinoplasty saw/Micro magic saw	2

.No	Offered Specification	QTY.
	TYMPANOPLASTY SET	3
	SET CONSISTS OF:	
1	CONTAINER 11" X 13"	1
2	SCALPEL HANDLE NO. 4	1
3	GRUBER EAR SPECULA FIG. 3	1
4	GRUBER EAR SPECULA FIG. 4	1
5	FARRELL COTTON APPLICATOR (0.9MM) TRIANGULAR 14CM/5 1/2"	1
6	GROSS EAR HOOK 12CM / 4 3/4"	1
7	SCHUKNECHT MICRO KNIFE	1
8	HARTMANN EAR POLYPUS FCP 8.5CM / 3 1/4"	1
9	STRUMPEL EAR POLYPUS FCP 8.5CM / 3 1/4"	1
10	MICRO EAR FCP 1.6 X 7MM 8CM / 3 1/4"	1
11	HARTMANN EAR POLYPUS FCP 1 X 2TH 8.5CM / 3 1/4"	1
12	HARTMANN CROCODILE FORCEPS 2.5MM CUP, 75MM	1
13	COLLIER MORRIS CURRETTE 3 X 4MM	1
14	LAKE DOUBLE ENDED SEEKER 184MM	1
15	KING VEIN GRAFT PRESS FORCEPS 20MM	1
16	MICRO EAR FCP 0.8 X 4MM 8CM / 3 1/4"	1
17	MICRO EAR FCP MINI 0.7 X 3.5MM 8CM / 3 1/4"	1
18	MICRO EAR FCP CUP SHAPED 0.9 X 1.1MM 8CM / 3 1/4"	1
19	PLESTER MICRO KNIFE	1
20	PLESTER MICRO KNIFE	1
21	LEMPERT BONE RONGEUR STR 16CM / 6 1/4"	1
22	FREER ELEVATOR SHARP/BLUNT 18CM / 7"	1
23	THORBURN SICKLE KNIFE SMALL D/E 165MM	1
24	MOLLISON RETRACTOR 15CM / 6"	1
25	PLESTER RETRACTOR 13CM / 5" SHARP LEFT	1
26	WEITLANER-WULLSTEIN RETRACTOR 13CM / 5" SHARP (3X3TH)	1
27	HALSTEAD MOSQUITO A/FCP STR (SERR) 12CM/4 3/4"	1
28	MICRO-ADSON TISSUE FCP (1X2 TH) 12CM/4 3/4"	1
29	MICRO-ADSON DRESSING FCP 12CM/4 3/4"	1
30	OPERATING SCISSOR STR (FIG. 2) 14.5CM/5 3/4" SH/BL	1
31	METZENBAUM SCISSOR CVD BL/BL 14.5CM/5 3/4" FIG. 1	1
32	SAENGER OVUM FCP STR 27CM / 10 1/2"	1

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PLESTER SUCTION TUBE 1.5MM - 19.5CM/7 3/4"	1
BARON(SCHUKNECHT) SUCTION TUBE 1 X 75MM	1
BARON(SCHUKNECHT) SUCTION TUBE 1.5 X 75MM	1
BARON(SCHUKNECHT) SUCTION TUBE 2 X 75MM	1
DE-BAKEY NEEDLE HOLDER T/C 18CM/7"	1

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S.No	Description	QTY.
	SMR SET	3
	SET CONSISTS OF:	
1	CONTAINER 11" X 13"	1
2	KILLIAN NASAL SPECULAM 50MM FIG. 2	1
3	KILLIAN NASAL SPECULAM 75MM FIG. 3	1
4	KILLIAN NASAL SPECULAM 90MM FIG. 4	1
5	HARTMANN NASAL SPECULA 15CM / 6" FIG. 1	1
7	LUC'S NASAL TURB FORCEPS Hrt SHAPED MED.	1
8	LUC'S NASAL TURB FORCEPS Hrt SHAPED 6MM	1
9	LUC'S NASAL TURB FORCEPS Hrt SHAPED 7.5MM	1
10	LUC'S NASAL TURB FORCEPS Hrt SHAPED 9MM	1
11	SCALPEL HANDLE NO. 3	1
12	FREER-YASARGIL ELEVATOR SHARP/BLUNT 18.5CM / 7 1/4"	1
13	HEYMANN SCISSOR SUPERCUT SAW EDGE 18CM/7"	1
14	TILLEY EAR FCP 16CM / 6 1/4"	1
15	LUC'S NON CUTTING FORCEPS	1
16	LUC'S CUTTING FORCEPS	1
17	MAYO HEGAR NEEDLE HOLDER 18CM/7"	1
18	JOSEPH ELEVATOR 4MM 16CM / 6 1/4"	1
19	MALTZ RASPS WITH T/C 17.5CM / 6 3/4" FIG. 1	1
20	KILLIAN GOUGE 16CM / 6 1/4"	1
21	LUCAE BONE Mallet 19MM/230G 19CM / 7 1/2" FIG. 1	1
22	LISTER BANDAGE SCISSOR 14CM/5 1/2"	1
23	MIDDLETON-JANSEN SEPTUM FCP 19CM / 7 1/2"	1
24	WATSON-WILLIAMS NASAL SEPTUM FCP 19CM / 7 1/2" FIG. 2	1
25	METZENBAUM-FINE SCISSOR CVD BL/BL T/C 18CM/7"	1
26	FRAZIER SUCTION TUBE 17CM 6FIG	1
27	AUFRICHT RETRACTOR 16CM / 6 1/4"	1
28	FOMEN OSTEOTOME RIGHT	1
	FOMEN OSTEOTOME LEFT	1
29	COTTLE CHISEL 9MM 18CM / 7"	1
30	ASCH SEPTUM FCP 23CM / 9"	1
31	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 1	1
32	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 2 LEFT	1
33	OCHSNER TROCAR 14.5CM/5 1/2" (DIA 4.0 MM)	1
34	MYLES NASAL CUTTING FCP FIG. 1	1
35	BALLENGER SEPTUM KNIFE 3MM 20CM / 8"	1
36	TILLY'S NASAL DRESSING FORCEPS	1

S.No	Description	QTY.
	TONSILLECTOMY SET	3
	SET CONSISTS OF:	
1	BOX 11" X 13"	1
2	METZENBAUM SCISSOR CVD BL/BL 18CM/7"	1
3	BACKHAUS TOWEL FCP 13CM/5"	1
4	RAMPLEY SPONGE HOLDING FORCEPS 10"	1
5	JENNING MOUTH GAG 11CM / 4 1/4"	1
6	YANKAUER SUCTION TUBE 27CM	1

False

	DANIS BROWN TONSIL HOLDING FORCEPS	1
	GWYNNE EVAN ELEVATOR	1
9	BRIKETT A/FCP STR 19CM/7 1/2"	1
10	BRIKETT A/ FCP CVD 19CM/7 1/2"	1
11	HURD TONSIL ELEVATOR 22.5CM / 9"	1
12	BRUENING TONSIL SNARE 28M / 11"	1
13	ENTEROTOMY SCISSOR 21CM/8 1/4"	1
14	NEGUS TONSIL FCP CVD 19CM/7 1/2"	1
15	NEGUS TONSIL FCP STRONG CVD 19CM/7 1/2"	1
16	MAYO-HEGAR NEEDLE HOLDER 18CM/7"	1
17	DESCHAMPS NEEDLE FINE (BLUNT) LEFT 20CM/8"	1
18	KNOT TIER 23CM/9"	1
19	BECKMANN ADONOID CURETTE 22CM / 8 3/4" FIG. 4	1
20	ST. CLAIR. THOMSON ADONOID CURETTE 22CM / 8 1/4" FIG. 1	1
21	ST. CLAIR. THOMSON ADONOID CURETTE 22CM / 8 1/4" FIG. 2	1
22	ST. CLAIR. THOMSON ADONOID CURETTE 22CM / 8 1/4" FIG. 3	1
23	DAVIS-BOYLE MOUTH GAG ONLY	1
24	DAVIS-BOYLE MOUTH GAG ONLY	1
25	KILNER-DOUGHTY MOUTH GAG BLADE 65 X 28MM FIG. 1	1
26	KILNER-DOUGHTY MOUTH GAG BLADE 75 X 32MM FIG. 2	1
27	KILNER-DOUGHTY MOUTH GAG BLADE 80 X 37MM FIG. 3	1
28	DOUGHTY TONGUE PLATE 102MM	1
29	DOUGHTY LUER TRACHEOSTOMY TUBE NICKLE TONGUE 114MM	1
30	DRAFFIN MAGURAN PLATE ONLY	1
31	DRAFFIN MAGURAN COMPLETE WITH 4 RINGS 42.5CM/17"	1

S.No	Description	QTY.
	STAPEDECTOMY SET	3
	SET CONSISTS OF:	
1	GRUBER EAR SPECULA 4.5MM FIG. 1	1
a	GRUBER EAR SPECULA 5MM FIG. 2	1
b	GRUBER EAR SPECULA 5.5MM FIG. 3	1
c	GRUBER EAR SPECULA 6MM FIG. 4	1
2	SIEGLE OTOSCOPE WITH 3 EAR SPECULA AND RUBBER TUBE WITH BULB	1
3	HARTMANN EAR SPECULA CHILD SET OF 3 FIG. 2 - 4	1
4	FARRELL COTTON APPLICATOR (0.9MM) TRIANGULAR 14CM/5 1/2"	1
5	FARRELL COTTON APPLICATOR (1.5MM) TRIANGULAR 18CM/7"	1
6	FARRELL COTTON APPLICATOR (1.1MM) TRIANGULAR 16CM/6 1/4"	1
7	FARRELL COTTON APPLICATOR (1.1MM) ROUND 16CM/6 1/4"	1
8	BUCKINGHAM CURETTE	1
9	JANSEN (GRUENWALD) NASAL DRESSING FCP 16CM/6 1/4"	1
10	HARTMANN MICRO EAR FORCEPS SERR 7 X 85MM, BLACK	1
11	ORMERED AURAL FORCEPS EXT. FINE BLACK 70MM	1
12	MAWSON ENDURAL RETRACTOR 3X3 PR. SHARP 12.5CM BLACK	1
13	BELUCCI PLESTER RETRACTOR 13CM / 5" BLUNT	1
14	BELUCCI PLESTER RETRACTOR 13CM / 5"	1
15	HARTMANN-WULLSTEIN EAR POLYPUS FCP 1.8 X 8MM 8.5CM / 3 1/4"	1
16	MC GEE WIRE CLOSURE FCP 8CM / 3 1/4"	1
17	DIETER MICRO EAR FCP UPWARD CUTTING 8CM / 3 1/4"	1
18	SHEA MICRO EAR POLYPUS SCISS 7MM 8CM / 3 1/4"	1

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9	SHEA INCISING KNIFE ANGULAR SHAFT BLACK 17CM	1
	HOUSE CUT PUT ADAPTOR FOR USE W/ VERHOEVEN	1
21	ROSEN ASPIRATION TUBE 2.1MM	1
22	ROSEN ASPIRATION TUBE 1.8MM	1
23	ROSEN ASPIRATION TUBE 1.5MM	1
24	ROSEN ASPIRATION TUBE 1.4MM	1
25	ROSEN ASPIRATION TUBE 1.2MM	1
26	ROSEN ASPIRATION TUBE 1.0MM	1
27	ROSEN ASPIRATION TUBE 0.9MM	1
28	ROSEN ASPIRATION TUBE 0.7MM	1
29	ROSEN ASPIRATION TUBE 0.6MM	1
30	ROSEN ASPIRATION TUBE 0.45MM	1
31	HOUSE SUCTION TUBE 0.9MM	1
32	FRAZIER SUCTION TUBE 17CM 6FIG	1
33	WEITLANER RETRACTOR 16.5CM / 6 1/2" SHARP (3X4 TH)	1
34	HARTMANN EAR POLYPUS FCP 8.5CM / 3 1/4"	1
35	MICRO EAR FCP 0.3MM 8CM / 3 1/4" STR	1
36	ROSEN MICRO NEEDLE	1
37	HOUSE CURETTE.4MM	1
38	BARBARA MICRO HOOK 90° 1MM	1
39	BARBARA MICRO HOOK 90° 1.2MM	1
40	HOUSE DE SOURDILLE CALIPER 15MM	1
41	HOUSE CURETTE 3.5MM	1
42	HOUSE CURETTE 1 X 1.2MM 15CM / 6"	1
43	HOUSE CURETTE 1.5 X 1.8MM 15CM / 6"	1
44	HOUSE CURETTE 1.5 X 1.8MM 15CM / 6"	1
45	POLITZER EAR KNIFE 16.5CM / 6 1/2"	1
46	SICKLE KNIFE MICRO ANGLED UP 24CM / 9 1/2"	1
47	ROSEN MICRO NEEDLE 25° 0.6MM	1
48	ROSEN MICRO KNIFE 1.6MM	1
49	BARBARA MICRO HOOK 90° 1MM	1
50	ROSEN MICRO KNIFE 2MM	1
51	MICRO STERILIZING COTAINER PERFORATED 400 X 200 X 90MM	1

S.No	Description	QTY.
	TRACHEOSTOMY SET	3
	SET CONSISTS OF:	
1	BOX 11" X 13"	1
2	LUER TRACHEOSTOMY TUBE NICKLE 24Fr	1
3	LUER TRACHEOSTOMY TUBE NICKLE 26Fr	1
4	LUER TRACHEOSTOMY TUBE NICKLE 28Fr	1
5	LUER TRACHEOSTOMY TUBE NICKLE 30Fr	1
6	LUER TRACHEOSTOMY TUBE NICKLE 34Fr	1
7	LUER TRACHEOSTOMY TUBE NICKLE 36Fr	1
8	LUER TRACHEOSTOMY TUBE NICKLE 38Fr	1
9	SCALPEL HANDLE NO. 4	1
10	SCALPEL HANDLE NO. 3	1
11	OPERATING SCISSOR STR (FIG. 2) 13CM/5" SH/BL	1
12	METZENBAUM SCISSOR CVD BL/BL 14.5CM/5 3/4" FIG. 1	1
13	LANGENBECK RETRACTOR 21.5CM/8 1/2" (22X6MM)	1
14	FRAIZER NERVE HOOK SHARP 13CM/5"	1
15	TROUSSEAU DILATORS 14CM / 5 1/2"	1

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6	ADSON ARTERY FORCEPS STRAIGHT 180MM	1
	ADSON ARTERY FORCEPS CURVED 180MM	1
	DE-BAKEY NEEDLE HOLDER T/C 18CM/7"	1
19	DE-BAKEY NEEDLE HOLDER T/C 23CM/9"	1
20	LITTLEWOOD INTESTINAL TISSUE FCP 18.5CM / 7 1/4"	1
21	CRILE NERVE HOOK 20CM/8"	1
22	SENN-MULLER RETRACTOR BLUNT 16CM / 6 1/4"	1
23	CUSHING TISSUE FCP 17.5CM/7"	1

S.No	Description	QTY.
	MASTOIDECTOMY SET	3
	SET CONSISTS OF:	
1	CONTAINER 11" X 13"	1
2	HARTMANN EAR SPECULA BABY 2MM FIG. 1	1
3	HARTMANN EAR SPECULA CHILD 3MM FIG. 2	1
4	HARTMANN EAR SPECULA CHILD 4MM FIG. 3	1
5	HARTMANN EAR SPECULA CHILD 5.5MM FIG. 4	1
6	HARTMANN EAR SPECULUM 6MM	1
7	HARTMANN EAR SPECULA ADULT 7.5MM FIG. 6	1
8	TOYNBEE EAR SPECULA ADULT FIG. 4	1
9	SCALPEL HANDLE NO. 4	1
10	MOLLISON RETRACTOR 15CM /6"	1
11	PLESTER RETRACTOR 13CM / 5" SHARP LEFT	1
12	WEITLANER-WULLSTEIN RETRACTOR 13CM /5" BLUNT (3X3TH)	1
13	HALSTEAD MOSQUITO A/FCP CVD (SERR) 12CM/4 3/4"	1
14	MICRO-ADSON TISSUE FCP (1X2 TH) 12CM/4 3/4"	1
15	MICRO-ADSON DRESSING FCP 12CM/4 3/4"	1
16	OPERATING SCISSOR STR (FIG. 2) 13CM/5" SH/BL	1
17	METZENBAUM SCISSOR CVD BL/BL 14.5CM/5 3/4" FIG. 1	1
18	SAENGER OVUM FCP STR 27CM / 10 1/2"	1
19	PLESTER SUCTION TUBE 1.5MM - 19.5CM/7 3/4"	1
20	BELLUCI SUCTION SET OF 3	1
a	BARON(SCHUKNECHT) SUCTION TUBE 1 X 75MM	1
b	BARON(SCHUKNECHT) SUCTION TUBE 1.5 X 75MM	1
c	BARON(SCHUKNECHT) SUCTION TUBE 2 X 75MM	1
21	TOWEL FPCS WITH CLIP 11CM/4 1/2"	1
22	BACKHAUS TOWEL FCP 13CM/5"	1
23	RAMPLEY SPONGE HOLDING FCP 24CM/9 1/2"	1
24	BARUN DECAPITATING HOOK 30CM / 12"	1
25	KILNER NERVE HOOK 15CM/6"	1
26	GILLIES TISSUE FCP (1X2 TH) 15CM/6"	1
27	ADSON-DRESSING FCP 12CM 4 3/4"	1
28	MCINDOE DRESSING FCP 15CM/6"	1
29	JOBSON-HORNE COTTON APPLICATOR 13CM/5"	1
30	FREER ELEVATOR SHARP/BLUNT 18CM / 7"	1
31	LEMPERT BONE RONGEUR CVD 16CM / 6 1/4"	1
32	LEMPERT BONE RONGEUR CVD 19CM / 7 1/2"	1
33	TILLEY AURAL FORCEPS 140MM	1
34	PARTSCH BONE CHISEL 3MM 17CM / 6 3/4"	1
35	PARTSCH BONE CHISEL 4MM 17CM / 6 3/4"	1

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35	FICKLING ORAL ANGLED FORCEPS 178MM	1
	CLAMP FICKLING ANGULAR SIDE 178MM	1
36	RUSKIN BONE RONGEUR CVD 18CM / 7" D/A	1
39	ADSON SUCTION TUBE 21CM / 8 1/4" (4MM)	1
40	ADSON FREER/ Plester SUCTION TUBE 200 MM	1
41	MALLET FICKLING 192GMS	1

S.No	Description	QTY.
	NASAL POLYPECTOMY SET	3
	SET CONSISTS OF:	
1	Killian nasal speculum(small,medium and large size)	3
2	TILLEY EAR FCP 16CM / 6 1/4"	1
3	LUC NASAL CUTTING FORCEPS FIG. 1, 20CM	2
4	LUC NASAL CUTTING FORCEPS FIG. 2, 20CM	2
5	TILLEY EAR FCP 16CM / 6 1/4"	1
6	KRAUSE NASAL SNARE 26CM / 10 1/4"	1
7	MAGILL SUCTION TUBE FIG. 1	1
8	MAGILL SUCTION TUBE FIG. 2	1
9	MAGILL SUCTION TUBE FIG. 3	1
10	MAGILL SUCTION TUBE ID, 2.5MM, OD, 4.5MM	1
11	HEYMANN NASAL SCISSOR 18CM/7"	1
12	BACKHAUS TOWEL FCP 11CM/41/2"	4
13	TRAY KIDNEY 200 X 35MM	1
14	GALIPOT 3, OZ, 58 X 40MM	1
15	TRAY INSTRUMENT W/COVER 300 X 175 X 40MM	1

S.No	Description	QTY.
	OESOPHAGOSCOPE RIGID SET	3
	SET CONSISTS OF:	
1	esophagoscopeΦ9.0×13×250	1
2	esophagoscopeΦ10.0×14×300	1
3	esophagoscopeΦ11.0×15×350	1
4	esophagoscopeΦ12.0×16×380	1
5	esophagoscopeΦ13.0×17×400	1
6	handle	1
7	duck-mouth forcepsΦ4.0 × 450	1
8	cup-shaped forcepsΦ4.0 × 450	1
9	alligator forcepsΦ4.0 × 450	1
10	grasping forcepsΦ4.0 × 450	1
11	suction tubeΦ2.5 × 450	1
12	suction tubeΦ3.0 × 450	1
13	suction tubeΦ4.0 × 450	1
14	fiber optic light cableΦ4 × 1800	1
15	sterilization case	1
16	Prismatic light deflector(prism)(karlstorz)	2

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No	Description	QTY.
	RIGID BRONCHOSCOPE	3
	CONSISTS OF:-	
1	bronchoscopeΦ4 × 260/fiber	1
2	bronchoscopeΦ4.5 × 280/fiber	1
3	bronchoscopeΦ5.0 × 280/fiber	1
4	bronchoscopeΦ5.5 × 300/fiber	1
5	bronchoscopeΦ6.0 × 300/fiber	1
6	foreign body forcepsΦ2.0 × 360	1
7	grasping forcepsΦ2.0 × 360/duck-jaws	1
8	grasping forcepsΦ2.0 × 360	1
9	suction tubeΦ3.0 × 320	1
10	suction tubeΦ4.0 × 320	1
11	suction tubeΦ4.0 × 320	1
12	fiber optic light cableΦ4 × 1800	1
13	sterilization case	1
14	Prismatic light Deflector(prism)	2

S.No	Description	QTY.
	OPERATING / DIRECT LARYNGOSCOPE SET	3
	SET CONSISTS OF:	
1	OPERATING LARYNGOSCOPE ADULT 18CM FIBER OPTIC	1
2	OPERATING LARYNGOSCOPE ADULT MEDIUM 18CM F.O	1
3	OPERATING LARYNGOSCOPE ADULT SMALL 18CM	1
4	OPERATING LARYNGOSCOPE CHILD 13CM	1
5	LIGHT GUIDE FOR USE WITH OP292, OP293 & OP294 SPARE	1
6	LIGHT GUIDE FOR USE WITH OP295 (SPARE) FIBER OPTIC	1
7	MICRO LARYNGEAL FORCEPS STR SERR 25CM	1
8	MICRO LARYNGEAL FORCEPS CVD / LEFT SERR 25CM	1
9	MICRO LARYNGEAL FORCEPS CVD / RIGHT SERR 25CM	1
10	MICRO LARYNGEAL FORCEPS ROUND CUP STR 25CM	1
11	MICRO LARYNGEAL FORCEPS ROUND CUP CVD LEFT 25CM	1
12	MICRO LARYNGEAL FORCEPS ROUND CUP CVD RIGHT 25CM	1
13	MICRO LARYNGEAL FORCEPS ROUND CUP UPWARD 25CM	1
14	MICRO LARYNGEAL SCISSOR STR 25CM	1
15	MICRO LARYNGEAL SCISSOR CVD / LEFT 25CM	1
16	MICRO LARYNGEAL SCISSOR CVD / RIGHT 25CM	1
17	MICRO LARYNGEAL SCISSOR CVD UPWARD 25CM	1
18	MICRO LARYNGEAL OVAL FORCEPS STR 25CM	1
19	OLIVE SUCTION TUBE W/F/CUTT OFF 2.0MM, 90 DEGREE 30CM	1
20	OLIVE SUCTION TUBE W/F/CUTT OFF 3.0MM, 90 DEGREE 30CM	1
21	OLIVE SUCTION TUBE W/F/CUTT OFF 4.0MM, 90 DEGREE 30CM	1
22	ADOPATOR (V) FOR OPERATING LARYNGOSCOPE	1
23	REXION BAG FOR OPERATING LARYNGOSCOPE	1
24	CHEST SUPPORT FOR LARYNGOSCOPE HOLDER	1

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	Description	QTY.
	SEPTORHINOPLASTY SURGERY SET	3
	SET CONSISTS OF:	
	SCALPEL HANDLE NO. 4	1
	MAYO-HEGAR NEEDLE HOLDER 14CM/5 1/2"	1
3	BALLENGER SEPTUM KNIFE 4MM 20CM / 8"	1
4	JOSEPH NASAL SAW RIGHT 19CM / 7 1/2"	1
5	STEVEN TENOTOMY EYE SCISSOR POINTED STR 11.5CM/4 1/2"	1
6	OPERATING SCISSOR STR (FIG. 2) 14.5CM/5 3/4" SH/BL	1
7	MAYO-HEGAR NEEDLE HOLDER 16CM/6 1/4"	1
8	MAYO-HEGAR NEEDLE HOLDER 18CM/7"	1
9	TRACHEAL RETRACTOR 1 PRONG SHARP 16CM/6 1/4" LARGE CVD	2
10	SENN-MULLER RETRACTOR SHARP 16CM / 6 1/4"	2
11	HALSTEAD MOSQUITO A/FCP STR (SERR) 12CM/4 3/4"	3
12	HALSTEAD MOSQUITO A/FCP CVD (SERR) 12CM/4 3/4"	6
13	KRIENG PLASTIC KNIFE	1
14	FREER NASAL KNIFE	1
15	FREER ELEVATOR SHARP/BLUNT 18CM / 7"	1
16	MIDDLETON-JANSEN SEPTUM FCP 19CM / 7 1/2"	1
17	LUC NASAL CUTTING FORCEPS FIG. 1, 19CM	1
18	HARTMANN-HALLE NASAL SPECULA 15CM / 6" FIG. 1	1
19	HARTMANN-HALLE NASAL SPECULA 15CM / 6" FIG. 2	1
20	HARTMANN-HALLE NASAL SPECULA 15CM / 6" FIG. 3	1
21	JOSEPH NASAL SAW LEFT 19CM / 7 1/2"	1
22	MALTZ RASPS WITH T/C 17.5CM / 6 3/4" FIG. 2	1
23	WIENER NASAL RASP 18CM / 7"	1
24	AUFRICHT RETRACTOR 16CM / 6 1/4"	1
25	Iris scissor 4.5 to 5cm(straight and curved)	2
26	FRAZIER SUCTION TUBE 17CM 6FIG	1
27	FRAZIER SUCTION TUBE 17CM 8FIG	1
28	ADSON BROWN TISSUE FCP 12CM/4 3/4"	1
29	ADSON TISSUE FCP (1X2 TH) 12CM/4 3/4"	1
30	ADSON-DRESSING FCP 12CM 4 3/4"	1
31	TISSUE FCP (1X2 TH) 13CM/5"	1
32	FARABAUF RETRACTOR 12CM / 4 3/4" SET OF 2	1
33	HEYMANN NASAL SCISSOR 18CM/7"	1
34	METZENBAUM SCISSOR CVD BL/BL 18CM/7"	1
35	BACKHAUS TOWEL FCP 9CM/31/2"	4
36	BACKHAUS TOWEL FCP 11CM/41/2"	4
37	FORESTER SPONGE HOLDING FCP SERRATED STR 18CM/7"	2
38	LERICHE A/FCP STR (1X2 TH) 15CM/6"	1
39	ASCH SEPTUM FCP 23CM / 9"	1
40	FREER HOOK 15CM / 6"	2
41	JANSEN (GRUENWALD) NASAL DRESSING FCP 20CM/8"	1
42	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 2 LEFT	1
43	WALSHAM SEPTUM STRAIGHTING FCP 23CM / 9" FIG. 3 RIGHT	1
44	FREER CHISEL 4MM 16CM / 6 1/2" CVD	1
45	KILLAIN-CLAUS GOUGE 16CM / 6 1/4"	1
46	SMITH - PETERSON OSTEOTOME STR 19MM 20CM / 8"	1
47	SCALPEL HANDLE NO. 3	1
48	Cottle scissor	2
49	Osteotome 4mm stainless steel	1

Final

No.	Description	QTY.
	MYRINGOTOMY SET	3
	SET CONSISTS OF:	
1	BOUCHERON EAR SPECULA SET OF 4 FIG. 3 - 6	1
2	LUCAE KNIFE 18CM / 7"	1
3	POLITZER EAR KNIFE 16.5CM / 6 1/2"	1
4	HOUGH MICRO EAR FCP LEFT ANGLED 0.8 X 3MM 8CM / 3 1/4"	1
5	ZOELLNER SUCTION TUBE WITHOUT SUCTION	1
6	ZOELLNER TIP ONLY Ø0,7MM	6
7	ZOELLNER TIP ONLY Ø0,9MM	6
8	ZOELLNER TIP ONLY Ø1,2MM	6
9	BACKHAUS TOWEL FCP 9CM/31/2"	4



Department of Burn & Plastic Surgery
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Date: 25th Nov, 2025

To
Incharge Article Store
Ayub Teaching Hospital
Subject: " Detailed Specifications of the instruments for Plastic Surgery
Department"
Sir,

Most respectfully in reply to your letter no. _____ please
find the attached list of instruments and their specifications.

Yours faithfully,
Dr. Firdous Khan
Incharge Plastic Surgery Unit

List of Plastic Surgery Instruments

MICRO SUGERY SET

S#	DESCRIPTION	QTY
1	Micro Jeweller Forceps Str	1
2	Micro Jeweller Forceps Cvd	1
3	Micro Round Handle Forceps 6" Str	1
4	Micro Round Handle Forceps 6" Cvd	1
5	Micro Round Handle Forceps 7" Str (Vessel Dilator)	1
6	Micro Round Handle Forceps 7" Cvd	1
7	Micro Needle Holder 7" fine Str	1
8	Micro Needle Holder 6" Cvd	1
9	Micro Scissors Str 6"	1
10	Micro Scissors Cvd 6"	1
11	Micro Vesel Clamps 3V+3A Single	2
12	Micro Vesel Clamps Double	1
13	Slicon Pad	1
14	Instruments Box	1
TOTAL QTY :-		15

→ USA, Europe,
& Spain.

GENERAL PLASTIC SURGERY SET

S#	DESCRIPTION	QTY
1	Barron Handle	1
2	Mcindoe NF Forceps	1
3	Gillies Toothed Forceps	1
4	Adson Toothed Forceps fine	1
5	Adson Toothed Forceps Medium	1
6	Adson Brown Dissecting Forceps	1
7	Mcindoe Scissors Long	1
8	Supercut Straight Iris Scissors Sharp Point 4"	2
9	Curved Strabismus Scissors Blunt Point	1
10	Super cut Scissors 6" Cvd (Black)	1
11	Mayo Scissors Cvd	1
12	Kilner Skin Hooks	4
13	Cats Paw Retractor	2
14	Ruler 6"	1
15	Mapping Pen	1
16	Howarth Elevator	1
17	American Pattern Suction Cannula	1
18	Towel Clips	6
19	Mosquito Artery Forceps On Pin	6
20	Sponge Holding Forceps	1
21	Halslay Needle Holder	2

lower limb for gut adult ——— ①
 " " " paed's ——— ①
 upper limb for gut adult ——— ①
 " " " paed's ——— ①

1198

22	Inkpot	1
23	Tenotomy Scissors Cvd Small	2
24	Bowl	1
25	Kidney Tray	1
26	Cliper	1
27	Massing Needle Holder T/c Tip	1
28	Instruments Box 10x12x4 Perforated	1
TOTAL QTY :		45

CLEFT PALATE SET

S#	DESCRIPTION	QTY
1	Cleft Palate Mouth Gauge Set <i>Dingman mouth gag</i>	1
2	Barron Handle Long 8"	1
3	Meindoe NT Forceps	1
4	Adson toothed forceps Fine	1
5	Adson toothed forceps Medium	1
6	Dissecting Forceps Palis fine 8"	1
7	Meindoe Palate Respiratories Different	6
8	Meindoe Scissors	1
9	Cleft Palate Needle Holder 7"	1
10	Long Adson Forceps 3"	1
11	Kilner Skin Hooks	4
12	Ruler 6"	1
13	Mosquito Artery Forceps Cvd On Pin	3
14	Towel Clips	4
15	Sponge Holding Forceps	1
16	Kidney Tray	1
17	Stilles Scissors Long	1
18	Inkpot	1
19	Mapping Pen	1
20	Bowl	1
21	Instruments Box	1
TOTAL QTY :-		37

HAND SURGERY SET

S#	DESCRIPTION	QTY
1	Lead Hand Large	
2	Hand surgery Osteotome set	
3	Bone Cutter	
4	Nerve Hook	
5	Tendon Stripper	
6	Tendon Examiner	
7	Double Hook	

→ USA, Europe .

- Bone nibbler ————— ①
- K-wire cutter ————— ①
- K-wire Bender ————— ①
- Hand chuck ————— ①
- Towel clamps ————— ④

• Kindey tray — ①
 • Mollison self retaining retractor — ①

8	Awl (HS 320-12 X)	
9	Barrons handle	
10	Mcindoe NT forceps	
11	Adson toothed forceps fine	
12	Adson toothed forceps medium	2
13	Mcindoe Scissors Long	
14	Supercil Straight Iris Scissors Sharp Point 4"	
15	Curved Strabismus scissors blunt point	
16	Kilner skin hooks	4
17	Cats paw retractors	2
18	Ruler 6"	
19	Mapping Pen	
20	Howarth elevator	
21	American pattern sucker Cannula	
22	Mayo Dressing scissors	
23	Mosquito Artery forceps on pin	
24	Neiverts Needle Holder 6" Tie	
25	Gallipot	
26	Stille Stevens Scissors curved 5"	2
27	Instruments box	
TOTAL QTY :-		37

RHINOPLASTY SET / NASAL SET

S#	DESCRIPTION	QTY
1	Alfrights Nasal Retractor	
2	Nasal Speculum	
3	Straight S/W Artery forceps	
4	Scissors Angled on flat	②
5	Ballinger Bone Forceps	X
6	Septum nasal forceps right and left Waltheim	
7	Septum forceps Str (Ach)	
8	Metzenbaum Scissors Cvd on flat 8"	
9	Stoz nasal saws right and left	2
10	Padgett nasal rasp fine and coarse	
11	Joseph nasal Resectory	
12	Joseph skin holder	
13	Kilner/Alze retractor	1
14	Heath Mallet	
15	Set I McIndoe Chisels 5,7,9,11,15mm	
16	Tillys Nasal Forceps	
17	McIndoe Non Toothed Forceps 6"	
18	Mastard's Toothed Forceps 6"	
19	Adson Toothed Forceps Fine	
20	Adson Toothed Forceps Medium	

caliper ————— ①
 cattle cartilage crusher — ①
 Turbectomy scissors — ①
 Gubich retractors — ①

Freezes septum elevator — ①
 coffee septum elevator — ①

21	American pattern suction cannula	
22	Valkmann curette	
23	Towel Clips	4
24	Marking pen	
25	Inkpot	
26	Rhino Osteotome with guarded R.F.E.	2
27	Instruments Box	
TOTAL QTY:		38

Liosuction Cannula Set		
1	Liposuction Cannula For Face (set of 3)	01Set
2	Liposuction Cannula Horizontal Holes 3mm, 6"	2
3	Liposuction Cannula Horizontal Holes 6mm, 6"	2
4	Liposuction Cannula Horizontal Holes 3mm, 12"	1
5	Liposuction Cannula Horizontal Holes 6mm, 12"	1
6	Liposuction Cannula Vertical Holes 3mm, 6"	1
7	Liposuction Cannula Vertical Holes 6mm, 6"	1
8	Liposuction Cannula Vertical Holes 3mm, 12"	1
9	Liposuction Cannula Vertical Holes 6mm, 12"	1
10	Handle for Cannula	
11	Harvesting Cannula	
12	Initiation Cannula	
13	Fat core grafting set	①
14	Micro injector	

②
 ②
 ②
 ②

- ⑮ liposuction cannula Basket tip 6mm, 18" — ②
- ⑯ liposuction cannula Basket tip 6mm, 12" — ②
- ⑰ V. dissector toledo cannula — 2mm — ①
- ⑱

HAND HELD DOPPLER

Specification Item	Typical / Recommended Values
Probe Frequency	4 MHz, 5 MHz, or 8 MHz (depending on vascular application)
Audio Bandwidth	~350 Hz – 2 kHz (for vascular Doppler)
Battery	Rechargeable lithium / NiMH; capacity to support several 1-minute examinations per charge
Battery Life	E.g., 500+ 1-minute uses per full charge (or similar)
Weight	Lightweight, e.g., ~300 g (\pm a small tolerance)
Display / Interface	With / without LCD (for simple vascular Doppler, sometimes no screen)
Connectivity	Optional USB port; possibly Bluetooth / data export if needed
Certifications	CE, ISO 13485, FDA (if required) — KPPRA often requires quality certifications
Accessories	Probes (interchangeable), gel, charging system, carry pouch
Warranty	At least 1 year; spare parts availability (as required by BSD)

NERVE STIMULATOR

Specification	Requirement
Channels	Dual, isolated between channels
Display	5" LED or LCD
Pulse Rate (Frequency)	2 Hz – 150 Hz, in 1 Hz steps
Pulse Width	30 – 300 microseconds, in steps of 10 μ s
ON Time	2 – 90 seconds, 1-second steps
OFF Time	0 – 90 seconds, 1-second steps
Modes (TENS)	5 modes: Burst (B), Normal (N), Modulation (M), SD1, SD2
Modes (EMS)	2 modes: Synchronous (S), Alternate (A)
Spare Parts / Maintenance	10 years parts availability required.
Quality / Documentation	Must submit catalogues / data sheets / technical literature highlighting these specs.

SURGICAL LOUPES → USA, Europe

Specification Item	Requirement / Description
Product Type	Surgical / Dental Loupes (binocular, Galilean or Kepler)

Magnification Options	Multiple options (e.g., 2.3×, 2.5×, 3.0×, 3.5×, 4.0×)
Working Distance	Customizable working distances (e.g., 300 mm, 350 mm, 400 mm, 420 mm, etc.)
Field of View (FOV)	Measured FOV for each magnification
Depth of Field (DOF)	Depth of field range for each magnification
Optical Design & Quality	Specify whether Galilean or Kepler; require anti-reflective / multi-layer coated optics; "truth-in-magnification" certification / test data
Frame / Mounting	Options: safety frame, flip-up frame, loupe-only (headband); adjustable interpupillary distance (IPD)
Prescription / Correction	Option for prescription lens inserts (near / far); method of inserting / replacing prescription lenses; turnaround time for custom lenses
Illumination (Optional / Required)	LED headlight (if supplied): lumen output, beam angle, battery type, runtime, mounting details
Weight	Maximum acceptable weight (e.g., optics < 300 g, weight of frame + loupes + optional light)
Ergonomics / Tilt / Declination	Declination / tilt angle; design to minimize neck strain; working posture recommendations
Materials & Durability	Frame material (e.g., titanium or alloy), scratch-resistant lenses, durability in surgical environment, service life expectations
Standards & Certifications	CE marking, ISO 13485 (or equivalent), declaration of conformity, quality assurance certificates
Accessories	Carry case, cleaning cloth, spare screws, battery charger (if light), spare battery, spare parts list
Warranty & Service	Minimum 1 year warranty; spare parts / service support for 5–10 years (state lead times)

HEAD LAMPS

Specification Item	Requirement / Description
Light Source / Technology	LED with a life of $\geq 50,000$ hours
Color Temperature	~4350 Kelvin (color correction)
Light Intensity Control	Intensity control (dimmer) / adjustable brightness
Lamp Head Positioning	Multi-flexible (multi-flex arm) for "ultimate flexibility" in positioning the lamp head.
Electrical Supply	220 V, 50 Hz AC
Safety / Protection	Reversible overload protection and short-circuit protection built-in.
Backup Power	Built-in backup power system using rechargeable dry batteries (branded) with at least 3 hours of backup time.

HUMMBY KNIFE

Specification Item Requirement / Description	
Instrument Type	Humby Dermatome / Skin-Grafting Knife (manually operated split-thickness graft knife)
Length	Typical lengths: 310 mm, 320 mm ; confirm exact model length
Material	High-grade stainless steel (e.g., surgical stainless) for durability & sterilization.
Finish	Passivated / dull-polished / hand-matt-polished to reduce glare & improve handling.
Cleaning / Sterilization	Should be autoclavable; ultrasonic cleaned manufacturing recommended. (Some suppliers mention ultrasonic cleaning.)
Rust Prevention / Corrosion Resistance	Material must be treated (passivation) to resist corrosion.
Blade / Graft Thickness Adjustment	Adjustable guard or roller to control depth (thickness) of harvested graft.
Blade Compatibility	Compatible with standard skin graft blades (e.g. 158 mm graft blades) depending on handle design.
Reusable / Disposable	Reusable: the knife body is reusable; blades may be replaceable/disposable. (Specify which)
Ergonomics	Handle should have good grip, ideally designed for steady harvesting, minimal fatigue.
Packing	Each knife should be individually packed, preferably in protective instrument tray or box.
Warranty / Service	Define warranty (e.g. 1 year) and service or replacement policy for the handle and spare parts.

**Operation Microscope
for Plastic & Reconstructive Surgery on Floor Stand:**

- . Microscope carrier with three step magnification changer and tilting mechanism
- . Motorized fine focusing
- . Objective f=300mm
- . Wide field high eye point 12.5x eyepieces
- . Light emission diode illumination with adjustment of intensity
- . Heat absorbing, blue correction, cobalt blue and green filters
- . Inclined binocular tube
- . Water proof foot control panel
- . Mobile floor stand with integrated operating panel, integrated light source and counterbalanced suspension arm
- . Inclined coupling
- . Digital video imaging integration with full high definition sensor, external high definition recorder with hard disk drive and 40" LED TV screen

→ USA, Europe

Drill Specs.

S#	Tender specifications	Qty
	Highspeed Power System for Plastic Surgery	
	Features:	
	Ideal for minimally invasive surgery	
	Dedicated for Plastic/reconstructive surgery	
	Dedicated for Cranio-maxillofacial surgeries	
	having options to be use in orthopedic procedures as well	
	System should be Hand/Foot pedal control	
	Optional handle (change from a pencil style handpiece to pistol style Handpiece)	
	On-Screen Information on Console display	
	Irrigation tubing with Sprayclip	
	Program (six programs, detailed information	
	Coolant supply	
	Console touch screen/digital with built in irrigation system	
	Foot pedal	
	Motor speed should be 300-1500 Rpm or better	
	Torque of motor should be 9 Ncm or better	
	Motor weight should be minimum as 0.43kg	
	Cable length should be 3.5m or better	
	Applied part type: Type BF	
	Attachments:	
	Coupling Geometries of Round shank with attachment (Facial contouring & Maxillofacial)	
	Coupling Geometries Dental with attachment (for delicate bone/burr work)	
	Coupling Geometries of Twist drill AO (mini quick) with attachment (Osteotomies, mandible plating, mid face, craniofacial & reconstructive surgeries)	
	Coupling Geometries J-notch with attachment (Rhinoplasty or orbital decompression)	
	All the related consumables should be quote for plastic surgery procedures	
	Troney should be quote as per OEM	

↳ USA, Europe

HAND/FOOT BASIC SURGERY INSTRUMENTS SET FOR PLASTIC & BURN SURGERY

S.NO	Items Description	QTY.
1	GROSS Sponge-/Dressing Forceps, curved, 200 mm (7 7/8"), jaw: serrated	2
2	Aluminium Hand, 270 mm, 10 5/8", width: 190 mm, for children	2
3	Aluminium Hand, 410 mm, 16 1/8", width: 280 mm, for adults	2
4	KIDNEY TRAY STAINLESS STEEL 250MM	2
5	LABORATORY DISH 0.3 L	2
6	LABORATORY DISH 0.16 L	2
7	TOWEL CLAMP FOR PAPER CLOTHS 115MM	12
8	SCALPEL HANDLE #3 125MM	2
9	Tissue Forceps, straight, medium, 160 mm (6 1/4"), jaw width 1.70 mm, 1 x 2 teeth	2
10	ADSON (MICRO) Tissue Forceps, straight, delicate, 150 mm (6"), jaw width 0.90 mm, 1 x 2 teeth	2
11	DE'BAKEY ATR.FCPS 2.0MM STR150MM	2
12	Surgical Scissors, straight, standard, sharp/blunt, 145 mm (5 3/4")	1
13	DUROTIP Delicate Scissors (Iris Scissors), curved, TC, delicate pattern, sharp/sharp, 110 mm (4 1/4")	1
14	MAYO-LEXER DUROTIP Dissecting Scissors, curved, TC, blunt/blunt, 165 mm (6 1/2")	1
15	Dissecting Scissors, curved, delicate pattern, sharp/sharp, 150 mm (6")	1
16	JAMESON Dissecting Scissors, curved, delicate pattern, blunt/blunt, 150 mm (6")	1
17	METZENBAUM (BABY) Noir Dissecting Scissors, curved, TC, delicate pattern, blunt/blunt, 145 mm (5 3/4")	1
18	DUROTIP Suture Scissors, curved, TC, wave cut, blunt/blunt, 145 mm (5 3/4")	1
19	PEAN Hemostatic Forceps, curved, 140 mm (5 1/2"), serrated	2
20	HALSTED (MOSQUITO) Hemostatic Forceps (Mosquito Forceps), curved, 125 mm (5"), delicate, serrated	12
21	KOCHER Hemostatic Forceps, straight, 140 mm (5 1/2"), 1 x 2 teeth	2
22	HALSTED (MOSQUITO) Hemostatic Forceps (Mosquito Forceps), straight, 125 mm (5"), delicate, 1 x 2 teeth	12
23	MICRO-ADSON Dissecting a. Ligature Forceps, curved, 140 mm (5 1/2"), serrated	2
24	BABY-MIXTER Dissecting a. Ligature Forceps, curved, 140 mm (5 1/2"), serrated	2
25	MAYO-HEGAR DUROGRIP Needle Holder, TC, straight, 150 mm (6"), jaw: with 0.5 mm pitch of serration, for suture up to 3/0	2
26	CONVERSE DUROGRIP Needle Holder, TC, straight, 130 mm (5 1/8"), jaw: with 0.2 mm pitch of serration, for suture 6/0 - 10/0	2
27	HOOK Retractor, large curve, 165 mm (6 1/2"), 1 prong, jaw depth: 9.50 mm, blunt	1
28	LANGENBECK-GREEN Retractor, 160 mm (6 1/4"), jaw depth: 24 mm, jaw width 6 mm	2
29	FREER Skin Retractor (Dura Retractor), 150 mm (6"), 2 prongs, jaw depth: 4 mm, jaw width 3.20 mm, sharp	2
30	Retractor (Rake), 160 mm (6 1/4"), 2 prongs, jaw depth: 5.20 mm, jaw width 4.50 mm, sharp	2
31	Retractor (Rake), 160 mm (6 1/4"), 1 prong, jaw depth: 8.50 mm, sharp	2
32	MANNERFELT (MODIF.) Retractor, 135 mm (5 1/4"), 1 prong, jaw depth: 3.50 mm, sharp	2
33	Retractor, large curve, 165 mm (6 1/2"), 2 prongs, jaw depth: 9.20 mm, jaw width 7.50 mm, sharp	2
34	LANGENBECK-GREEN Retractor, 160 mm (6 1/4"), jaw depth: 16 mm, jaw width 6 mm	2
35	Vein Retractor, 160 mm (6 1/4"), jaw depth: 10 mm, jaw width 13.70 mm	2
36	WEITLANER Retractor (self-retaining), 110 mm (4 1/4"), 2 x 3 prongs, jaw depth: 14 mm, jaw width 11.70 mm, semi-sharp	1
37	ALM Retractor (self-retaining), 100 mm (4"), 4 x 4 prongs, jaw depth: 7 mm, jaw width 9 mm, semi-sharp	1

38	HOHMANN Bone Lever, curved, 220 mm (8 3/4"), tip: sharp, width: 2.600 mm, jaw width 10 mm	1
39	Bone Lever, curved, 160 mm (6 1/4"), tip: sharp, width: 2 mm, jaw width 6 mm	2
40	Bone Lever, curved, 160 mm (6 1/4"), tip: sharp, width: 2 mm, jaw width 8 mm	2
41	Bone Lever, curved, 125 mm (5"), tip: sharp, width: 2 mm, jaw width 15 mm	2
42	FREER Elevator (Dissector), curved, 185 mm (7 1/4"), double ended, sharp/blunt, jaw width 4 mm/4 mm	1
43	Myrtle Leaf Probe, straight, 145 mm (5 3/4"), malleable, bulb-headed tip, Ø 1.50 mm	1
44	STEEL RULER 150MM	2
45	REAMER NARR SHAFT 150MM	1
46	Wire Extraction Pliers, straight, 180 mm (7"), jaw: serrated, tapered, double action	1
47	Wire Extraction Pliers, straight, 165 mm (6 1/2"), jaw: serrated, tapered, double action	1
48	DUROGRIP, Wire Cutting Pliers, TC, angled, 180 mm (7"), double action	1
49	HAJEK Mallet, 220 mm (8 3/4"), weight: 205.00 g, weight of head: 140 g, head Ø 27.00 mm	1
50	LAMBOTTE OSTEOTOME STR.4MM 125MM	1
51	LAMBOTTE OSTEOTOME STR.6MM 125MM	1
52	LAMBOTTE OSTEOTOME STR.8MM 125MM	1
53	LAMBOTTE OSTEOTOME STR.10MM 125MM	1
54	LAMBOTTE OSTEOTOME STR.12MM 125MM	1
55	LAMBOTTE OSTEOTOME STR.2MM 125MM	1
56	LAMBOTTE OSTEOTOME STR.3MM 125MM	1
57	BONE TAMPER 3MM DIA 160MM	1
58	Bone Rongeur, curved, 180 mm (7"), blade length: 17 mm, jaw width 3.80 mm	2
59	STELLBRINK Synovectomy Forceps, curved, 180 mm (7"), blade length: 6.50 mm, jaw width 2.10 mm	1
60	LUER-FRIEDMANN Bone Rongeur, curved, 145 mm (5 3/4"), blade length: 11.50 mm, jaw width 2.70 mm	1
61	Bone Holding Forceps, with thread fixation, curved to side, 145 mm (5 3/4"), jaw: serrated, jaw width 3 mm	2
62	Reposition Forceps, curved, 140 mm (5 1/2"), jaw: serrated	2
63	Reposition Forceps, curved, 135 mm (5 1/4"), jaw: 1 x 1 teeth	2
64	Reposition Forceps, curved, 95 mm (3 3/4"), jaw: 1 x 1 teeth, tapered	2
65	Bone Curette, #00, straight, 180 mm (7"), sharp, rigid, jaw width 4.40 mm	1
66	Bone Curette, #0000, straight, 180 mm (7"), sharp, rigid, jaw width 2.80 mm	1
67	Raspatory, curved, 200 mm (7 7/8"), rounded blade, sharp, jaw width 6 mm	1
68	Raspatory, curved, 200 mm (7 7/8"), rounded blade, sharp, jaw width 3 mm	1
69	TRAY WITH LID FOR REDON GUIDE NEEDLES	1
70	Redon Spike (Guiding Needle), slightly curved, 190 mm (7 1/2"), Ø Charr. 10, knife tip, threaded	1
71	Redon Spike (Guiding Needle), slightly curved, 190 mm (7 1/2"), Ø Charr. 8, knife tip, threaded	1
72	MCCALL SCALER ANG BLUNT150MM	1
73	WOERRLEIN Reposition Tamper, straight, 165 mm (6 1/2"), round, Ø 8 mm	1
74	BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM	2
75	PRIMELINE PRO 1/1 LID GOLD	2
76	1/1 SIZE PERF BASKET 540X253X76MM	2
77	SILICONE CUSHIONING PAD 1/1 SIZE	2
78	LUBRICATION OIL SPRAY BOX	2

MICRO VASCULAR SURGERY INSTRUMENT SET FOR PLASTIC & BURN SURGERY

S.NO	Items Description	QTY.
1	Needle Case, perforated, 150 mm (6"), width: 90 mm, height: 15.000 mm	1
2	NOIR SUPREME Atraumatic Micro Forceps, straight, 185 mm (7 1/4"), without weight, jaw width 1 mm, toothing DE BAKEY, round handle	1
3	NOIR SUPREME Micro Ring Forceps, straight, 185 mm (7 1/4"), ring tip, without weight, jaw ϕ : 1 mm, tungsten carbide coated, round handle	1
4	Micro Vascular Dilator, angled, 115 mm (4 1/2"), jaw width 0.40 mm, smooth, flat handle	1
5	NOIR SUPREME Micro Plateau Forceps, straight, 185 mm (7 1/4"), platform tip, without weight, jaw width 0.60 mm, tungsten carbide coated, round handle	1
6	NOIR SUPREME Micro Scissors, curved, blade length: 10 mm, very delicate blade, sharp/sharp, 165 mm (6 1/2"), round handle	1
7	NOIR SUPREME Micro Scissors, straight, blade length: 10 mm, very delicate blade, sharp/sharp, 165 mm (6 1/2"), round handle	1
8	NOIR SUPREME Micro Scissors, angled, 125 °, blade length: 10 mm, very delicate blade, sharp/sharp, 165 mm (6 1/2"), round handle	1
9	NOIR SUPREME Micro Scissors, angled, 45 °, blade length: 10 mm, very delicate blade, sharp/sharp, 165 mm (6 1/2"), round handle	1
10	BIEMER Micro Scissors (Vein Scissors), straight, with eye for vein, blunt/blunt, 130 mm (5 1/8"), flat handle, cross serration	1
11	Bulldog Clamp, curved, 34 mm (1 3/8"), jaw length: 13 mm, micro	2
12	BIEMER Micro Vascular Clip, straight, Stainless Steel, 15 mm, blade length: 6 mm, jaw width 1 mm, closing force: 0.29 N - 0.39 N/30 g - 40 g	2
13	BIEMER Micro Vascular Clip, straight, Stainless Steel, 18 mm, blade length: 9 mm, jaw width 1 mm, closing force: 0.29 N - 0.39 N/30 g - 40 g	2
14	BIEMER Micro Vascular Clip, straight, Stainless Steel, 18 mm, blade length: 9 mm, jaw width 0.60 mm, closing force: 0.20 N - 0.25 N/20 g - 25 g	2
15	MUELLER ALPHA Vessel Clip, atraumatic, angled to side, for vein, 45 °, Stainless Steel, 39 mm, blade length: 16 mm, jaw width 1.70 mm, closing force: 0.50 N/50 g	2
16	BIEMER-MUELLER Micro Approximator, straight, Stainless Steel, 18 mm, blade length: 9 mm, closing force: 0.25 N - 0.29 N/25 g - 30 g	1
17	BIEMER-MUELLER Micro Approximator, straight, Stainless Steel, 18 mm, blade length: 9 mm, closing force: 0.25 N - 0.29 N/25 g - 30 g	1
18	MUELLER ALPHA Vessel Clip, atraumatic, straight, for vein, Stainless Steel, 38 mm, blade length: 12 mm, jaw width 1.70 mm, closing force: 0.50 N/50 g	2
19	MUELLER ALPHA Vessel Clip, atraumatic, curved, for vein, Stainless Steel, 37 mm, blade length: 12 mm, jaw width 1.70 mm, closing force: 0.50 N/50 g	2
20	ACLAND Approximator, straight, for artery, Stainless Steel, 24 mm, jaw width 2.20 mm, closing force: 0.44 N - 0.56 N/44 g - 56 g	1
21	ACLAND Approximator, straight, for vein, Stainless Steel, 24 mm, jaw width 2.20 mm, closing force: 0.44 N - 0.56 N/44 g - 56 g	1
22	ACLAND Vessel Clip, straight, for artery, Stainless Steel, 11 mm, jaw width 1.50 mm, closing force: 0.15 N - 0.19 N/15 g - 19 g	2
23	ACLAND Vessel Clip, straight, for vein, Stainless Steel, 11 mm, jaw width 1.50 mm, closing force: 0.15 N - 0.19 N/15 g - 19 g	2

24	NOIR SUPREME Micro Needle Holder, straight, 185 mm (7 1/4"), jaw: tungsten carbide coated, round handle, with ratchet, for suture up to 5/0	1
25	Noir Micro Needle Holder, curved, 170 mm (6 3/4"), Ø 0.50 mm, work. length: 80 mm, jaw: tungsten carbide coated, round handle, with ratchet	1
26	BIEMER Applying Forceps, straight, 145 mm (5 3/4"), with ratchet	1
27	ACLAND Applying Forceps, 140 mm (5 1/2"), used with 14-36 mm clips	1
28	ACLAND Applying Forceps, 140 mm (5 1/2"), used with 8-11 mm clips	1
29	KRAYENBUEHL Nerve- and Vessel Hook, angled, 90 °, 185 mm (7 1/4"), straight, 1 prong, jaw depth: 2.50 mm, blunt	1
30	VESSEL SPREADER BIEMER 165MM	1
31	VESSEL DILATOR D:1.0MM 125MM	1
32	BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM	2
33	PRIMELINE PRO 1/1 LID	2
34	1/1 SIZE PERF BASKET 540X253X76MM	2
35	SILICONE CUSHIONING PAD 1/1 SIZE	2
36	LUBRICATION OIL SPRAY BOX	2

RHINOPLASTY SET FOR PLASTIC & BURN SURGERY

S.NO	Items Description	QTY.
1	GROSS Sponge-/Dressing Forceps, curved, 200 mm (7 7/8"), jaw: serrated	1
2	TOWEL CLAMP FOR PAPER CLOTHS 115MM	12
3	SCALPEL HANDLE #3 125MM	2
4	SCALPEL HANDLE #7 ENGLISH NO.5 160MM	2
5	COTTLE Plastic Knife (Nasal Knife), straight, 140 mm (5 1/2"), blade width: 5 mm, rounded edge / blade	1
6	MASING Cartilage Slitting Knife (Lancet Knife), curved, 130 mm (5 1/8"), blade width: 4 mm	1
7	COTTLE-MASING Dissecting Scissors (Nasal Scissors), curved, delicate pattern, sharp/sharp, 105 mm (4 1/8")	1
8	COTTLE-KNAPP Dissecting Scissors, curved, delicate pattern, blunt/blunt, 105 mm (4 1/8")	1
9	FOMON Nasal Scissors, strongly curved, blunt/blunt, 135 mm (5 1/4")	1
10	COTTLE Nasal Scissors, angled, blunt/blunt, 165 mm (6 1/2"), angled handle	1
11	HEYMANN-KNIGHT Nasal Scissors, angled, knee bend, blunt/blunt, 175 mm (6 7/8")	1
12	GRAEFE Delicate Scissors (iris Scissors), angled on flat, delicate pattern, blunt/blunt, 100 mm (4")	1
13	JOSEPH Dissecting Scissors, curved, delicate pattern, sharp/sharp, 150 mm (6")	1
14	COTTLE Columella Clamp, 100 mm (4"), jaw width 11.80 mm, serrated	1
15	COTTLE Tissue Forceps, bayonet-shaped, 140 mm (5 1/2"), jaw width 1.80 mm, serrated, toothed	1
16	ADSON-BROWN Tissue Forceps, straight, 120 mm (4 3/4"), jaw width 1.80 mm, toothed	2
17	BROWN Tissue Forceps, straight, 150 mm (6"), jaw width 2.30 mm, toothed	2
18	JANSEN Dressing Forceps (Tweezers), straight, bayonet-shaped, 160 mm (6 1/4"), work. length: 65 mm, jaw width 1.80 mm, serrated	1
19	CONVERSE DIBROCRIP Needle Holder, TC, straight, 130 mm (5 1/8"), jaw: with 0.2 mm pitch of serration, for suture 6/0 - 10/0	1
20	CRILE-WOOD (BABY) DUBROCRIP Needle Holder, TC, straight, 150 mm (6"), jaw: with 0.4 mm pitch of serration, for suture 4/0 - 6/0	1
21	LATHBURY-FAPRELL Cotton Applicator, straight, triangular, 160 mm, 6 1/4", Ø 1.20 mm, jaw: serrated	2
22	COTTLE Retractor, 140 mm (5 1/2"), jaw depth: 10 mm, jaw width 12 mm	1
23	COTTLE Alar Retractor, 100 mm (7 7/8"), double ended, 2 prongs, jaw depth: 7 mm/7 mm, jaw width 12 mm/4.5 mm, blunt/blunt	1
24	JOSEPH Skin Retractor (Dura Retractor), 160 mm (6 1/4"), 2 prongs, jaw depth: 4.20 mm, jaw width 6 mm, sharp	1
25	MC INDOE Skin Retractor (Dura Retractor), 160 mm (6"), 2 prongs, jaw depth: 3.50 mm, jaw width 10 mm, sharp	1
26	COTTLE Skin Retractor (Dura Retractor), angled, 120°, 160 mm (6 1/4"), 1 prong, jaw depth: 3.80 mm, sharp	1
27	COTTLE Skin Retractor (Dura Retractor), strongly curved, 180°, 160 mm (6 1/4"), 1 prong, jaw depth: 4 mm, sharp	1
28	LANGE Fistula Hook (Choana Hook), 230 mm (9"), 1 prong, jaw depth: 9 mm, bulb-headed tip	1
29	FOMON Alar Retractor, 145 mm (5 3/4"), 2 prongs, jaw depth: 7.40 mm, jaw width 12.50 mm, blunt/blunt	1
30	COTTLE Alar Retractor, 145 mm (5 3/4"), 2 prongs, jaw depth: 7.60 mm, jaw width 12.50 mm, blunt/sharp	1
31	COTTLE Alar Retractor, 145 mm (5 3/4"), 2 prongs, jaw depth: 7.60 mm, jaw width 12.50 mm, blunt/sharp	1
32	AUFRECHT Nasal Retractor, 135 mm (5 1/8"), work. length: 45 mm, jaw width 10 mm	1

33	COTTLE Nasal Specula, 155 mm (6 1/8"), work length: 38 mm, jaw width 6 mm, Fig. 2	1
34	COTTLE Nasal Specula, 165 mm (6 1/2"), work length: 60 mm, jaw width 6.50 mm, Fig. 4	1
35	COTTLE Nasal Specula, 155 mm (6 1/8"), work length: 41 mm, jaw width 7.50 mm, Fig. 3	1
36	COTTLE Nasal Specula, 150 mm (6"), work length: 20 mm, jaw width 6 mm, Fig. 1	1
37	COTTLE Nasal Specula, 145 mm (5 3/4"), work length: 75 mm, jaw width 7 mm, Fig. 3	1
38	COTTLE Nasal Specula, 150 mm (6"), work length: 90 mm, jaw width 7 mm, Fig. 4	1
39	KILLIAN Nasal Specula, 145 mm (5 3/4"), work length: 75 mm, jaw width 7 mm, Fig. 3	1
40	KILLIAN Nasal Specula, 150 mm (6"), work length: 90 mm, jaw width 7 mm, Fig. 4	1
41	COTTLE Nasal Specula, 140 mm (5 1/2"), work length: 50 mm, jaw width 6 mm	1
42	KILLIAN Nasal Specula, 135 mm (5 1/4"), work length: 36 mm, jaw width 7 mm, Fig. 1	1
43	KILLIAN Nasal Specula, 140 mm (5 1/2"), work length: 55 mm, jaw width 7 mm, Fig. 2	1
44	OSTEOTOME 2MM 190MM	1
45	OSTEOTOME 3MM 190MM	1
46	OSTEOTOME 4MM 190MM	1
47	COTTLE CHISEL/OSTEOTOME W/MPX7MM180MM	1
48	COTTLE CHISEL/OSTEOTOME W/MPX9MM180MM	1
49	COTTLE CHISEL/OSTEOTOME W/MRI 12MM 180MM	1
50	COTTLE OSTEOTOME 6MM 180MM	1
51	MASING OSTEOTOME LIT. CYSGGUARD175MM	1
52	MASING OSTEOTOME 9.14MM SGGUARD175MM	1
53	MASING OSTEOTOME 8.14MM SGGUARD175MM	1
54	COTTLE Mallet, 185 mm (7 1/4"), weight: 320.00 g, weight of head: 255 g, head Ø 30.00 mm	1
55	FREER Elevator S/B180MM	1
56	COTTLE Elevator, curved, 200 mm (7 7/8"), graduated, double ended, sharp/blunt, jaw width 3.50 mm/2 mm	1
57	MASING Elevator, curved, 200 mm (7 7/8"), graduated, double ended, sharp/blunt, jaw width 5.20 mm/4 mm	1
58	COTTLE Elevator, curved, 200 mm (7 7/8"), double ended, sharp/sharp, jaw width 4.50 mm/4.50 mm	1
59	MC KENZIE Resectory (gentium Resectory), curved, 150 mm (6"), sharp, jaw width 4.50 mm	1
60	JOSEPH RASPATORY curved, 180MM	1
61	Suction Raspator, curved, 200 mm (7 7/8"), bayonet shaped, sharp, jaw width 4 mm	1
62	Suction Raspator, curved, 200 mm (7 7/8"), bayonet shaped, sharp, jaw width 5 mm	1
63	FERGUSSON Suction Saw, 195 mm (7 3/4"), curved, 45°, Ø 9FR, Ø 2.50 mm, rigid, cylindrical, work length: 110 mm	1
64	FERGUSSON Suction Saw, 195 mm (7 3/4"), curved, 45°, Ø 9FR, Ø 3 mm, cylindrical, rigid, work length: 110 mm	1
65	FERGUSSON Suction Saw, 195 mm (7 3/4"), curved, 45°, Ø 12FR, Ø 4 mm, rigid, cylindrical, work length: 110 mm	1
66	FERGUSSON Suction Saw, 195 mm (7 3/4"), curved, 45°, Ø 15FR, Ø 5 mm, rigid, cylindrical, work length: 110 mm	1
67	FOMON Bone File, serrated, 215 mm (8 1/2"), double ended, serrated (cross), jaw width 6.50 mm/1.70 mm	1
68	FOMON Bone File (No. 10) serrated, 215 mm (8 1/2"), double ended, one side fine, one side coarse, push, jaw width 6.50 mm/7.75 mm	1
69	MALIZ Bone File (No. 10) straight, 220 mm (7 1/4"), single ended, cut on down stroke, serrated, push, jaw width 6 mm	1
70	DUROGIP Bone File, serrated, 210 mm (7 7/8"), double ended, 16/20 teeth, jaw width 6 mm	1

71	JOSEPH Nasal Saw, bayonet-shaped, 135 mm (7 3/4"), blade right, width: 4 mm	1
72	JOSEPH Nasal Saw, bayonet-shaped, 135 mm (7 3/4"), blade left, width: 4 mm	1
73	CASTROVICIO Measuring Caliper, 75mm, 3", open, width: 15 mm	2
74	BONE CRUSHER	1
75	WEIL-BLAKESELEY Bonegras (Beak) Forceps, straight, 185 mm (7 1/4"), work. length: 120 mm, jaw width 4.20 mm	1
76	WEIL-BLAKESELEY Bonegras (Beak) Forceps, straight, 185 mm (7 1/4"), work. length: 120 mm, jaw width 3 mm	1
77	WEIL-BLAKESELEY Bonegras (Beak) Forceps, straight, 185 mm (7 1/4"), work. length: 120 mm, jaw width 3.00 mm	1
78	COTTLE-WALKER AM Separation Forceps, straight, 220 mm (8 3/4"), jaw: smooth	1
79	Bone Cutting Forceps, straight, 170 mm (6 3/4"), double action	1
80	JANSEN-MIDDLETON Section Forceps (Nasal Forceps), angled, 180 mm (7"), through cutting, double action	1
81	JANSEN-MIDDLETON Section Forceps (Nasal Forceps), spoon shaped, angled, 180 mm (7"), double action	1
82	LABORATORY DISH # 15	2
83	LABORATORY DISH # 16	2
84	WEIL-BLAKESELEY Bonegras (Beak) Forceps, upwards cutting, 140°, 180 mm (7"), work. length: 115 mm, jaw width 4.40 mm	1
85	BOTTOM BOARD (1) CONTAINER #168107 3MM	2
86	PRIME LINE #168107 3MM	2
87	1/1 SIZE PERF. CASSETTE 540X350X76MM	2
88	SILICONE DISH #168107 3MM	2
89	LUBRICATION #168107 3MM	2

CLEFT PALATE REPAIR SET FOR PLASTIC & BURN SURGERY

S.NO	Items Description	QTY.
1	GROSS Sponge-/Dressing Forceps, curved, 200 mm (7 7/8"), jaw: serrated	2
2	TOWEL CLAMP FOR PAPER CLOTHS 115MM	12
3	DAVIS-BOYLE Mouth Gag (Tongue Depressor), frame only, 135 mm (5 1/4"), width: 80 mm, w/silicone padding, for children	1
4	DAVIS-BOYLE Mouth Gag (Tongue Depressor), blade only, 135 mm (5 1/4"), w/o anesthesia channel, jaw depth: 25 mm, jaw width 19 mm	1
5	DAVIS-BOYLE Mouth Gag (Tongue Depressor), frame only, 170 mm (6 3/4"), width: 110 mm, w/silicone padding, for adults	1
6	DAVIS-BOYLE Mouth Gag (Tongue Depressor), frame only, 145 mm (5 3/4"), width: 90 mm, w/silicone padding, for adolescents	1
7	DAVIS-MEYER Mouth Gag, silicone insert, 25 mm (1"), width: 13 mm, silicone	1
8	RUSSEL-DAVIS Mouth Gag, blade only, 135 mm (5 1/4"), w/groove for endotrach. tubes, jaw depth: 67 mm, jaw width 29 mm	1
9	RUSSEL-DAVIS Mouth Gag (Tongue Depressor), blade only, 135 mm (5 1/4"), w/groove for endotrach. tubes, jaw depth: 75 mm, jaw width 33 mm	1
10	RUSSEL-DAVIS Mouth Gag (Tongue Depressor), blade only, 135 mm (5 1/4"), w/groove for endotrach. tubes, jaw depth: 85 mm, jaw width 38 mm	1
11	RUSSEL-DAVIS Mouth Gag (Tongue Depressor), blade only, 135 mm (5 1/4"), w/groove for endotrach. tubes, jaw depth: 92 mm, jaw width 40 mm	1
12	HARTMANN Tongue Depressor, angled, 150 mm (6"), serrated, jaw width 23 mm	2
13	SCALPEL HANDLE #7 ENGLISH NO.5 160MM	2
14	KILNER Dissecting Scissors (Undermining Scissors), curved, delicate pattern, special flat blunt tip, 150 mm (6")	2
15	METZENBAUM (BABY) DUROTIP® Dissecting Scissors, curved, TC, delicate pattern, blunt/blunt, 145 mm (5 3/4")	2
16	JOSEPH Dissecting Scissors, straight, delicate pattern, sharp/sharp, 150 mm (6")	1
17	DUROTIP Suture Scissors, curved, TC, wave cut, blunt/blunt, 180 mm (7")	1
18	Surgical Scissors, straight, standard, sharp/blunt, 145 mm (5 3/4")	2
19	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), jaw width 2 mm, toothing DE BAKEY	2
20	DE BAKEY ATRAUMATA Atraumatic Forceps, angled, 40°, 150 mm (6"), jaw width 2 mm, toothing DE BAKEY	2
21	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), jaw width 2 mm, toothing DE BAKEY	2
22	Tissue Forceps, straight, medium, 160 mm (6 1/4"), jaw width 1.70 mm, 1 x 2 teeth	2
23	MICRO-HALSTED FORCEPS DEL CVD 125MM	12
24	ROCHESTER-PEAN Hemostatic Forceps, curved, 160 mm (6 1/4"), serrated	1
25	CRILE-WOOD (BABY) DUROGRIP Needle Holder, TC, straight, 150 mm (6"), jaw: with 0.4 mm pitch of serration, for suture 4/0 - 6/0	2
26	DE BAKEY DUROGRIP Needle Holder, TC, straight, 180 mm (7"), jaw: with 0.4 mm pitch of serration, for suture 4/0 - 6/0	2
27	GILLIES Skin Retractor (Dura Retractor), 180 mm (7"), large, 1 prong, jaw depth: 5 mm, sharp	2
28	FREER Elevator (Dissector), curved, 185 mm (7 1/4"), double ended, sharp/blunt, jaw width 4 mm/4 mm	1
29	HOWARTH Elevator, curved, 215 mm (8 1/2"), double ended, sharp/blunt, jaw width 5.30 mm/4.50 mm	1

30	Raspatory, curved to left, 140 mm (5 1/2"), sharp, jaw width 4.50 mm	1
31	Raspatory, curved to right, 140 mm (5 1/2"), sharp, jaw width 4.50 mm	1
32	FERGUSSON Suction Cannula, 195 mm (7 3/4"), curved, 45 °, Ø 7,5FR, Ø 2.50 mm, rigid, cylindrical, work. length: 110 mm	2
33	FERGUSSON Suction Cannula, 195 mm (7 3/4"), curved, 45 °, Ø 9FR, Ø 3 mm, cylindrical, rigid, work. length: 110 mm	2
34	FERGUSSON Suction Cannula, 195 mm (7 3/4"), curved, 45 °, Ø 12FR, Ø 4 mm, rigid, cylindrical, work. length: 110 mm	2
35	LABORATORY DISH 0.16 L	2
36	BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM	2
37	PRIMELINE PRO 1/1 LID	2
38	1/1 SIZE PERF BASKET 540X253X76MM	2
39	SILICONE CUSHIONING PAD 1/1 SIZE	2
40	LUBRICATION OIL SPRAY BOX	2

LIPOSUCTION INSTRUMENT SET

S.NO	Items Description	QTY.
	Power assisted liposuction device with infiltration system having flow rate 300ml/min or better Suction system jars from the same manufacturer Suction jar capacity 2L or better at rate of 50-60 L/min	01
	Hand piece featuring 2mm/3mm reciprocating cannula movement at rate of 3000-3600 strokes per minute or better	01
	Reuse able cannulas for multi-use-purpose	
	Reusable infiltration cannula, 3.0mm diameter, 25cm length	1
	Reusable cannula, 2-3mm diameter, 15-20cm length, 18-22 hole, Straight	1
	Reusable cannula, 3-4mm diameter, 25-30cm length, Mercedes	1
	Reusable cannula, 3-5mm diameter, 30cm length,	1
	Reusable cannula, 4.0mm diameter, 25cm length, T	1
	Reusable cannula, 2-3mm diameter, 15-20cm length, Single hole Standard	1
	Cannula handle connector with air vent	1
	Cannula handle connector without air vent	1
	Luer Lock Adapter	1
1	Infiltration needle,	1
2	Electric hand piece with handle	1
3	Electronic micro-motor with 4 meter cable, autoclavable	1
	Quiver for electric hand piece with holder, 30cm, autoclavable	1
	Suction system with 2 jars from the same manufacturer	1
	Infiltration tubing set, 4 meter, disposable, sterile (100 tubing)	1
	Aspiration tubing set, 4 meter, disposable, sterile (100 tubing)	1
	Bacterial filters for suction (10pcs)	1

Foot pedal for liposuction and suction system	1
Imported Mobile trolley for electric console, suction system and accessories	1
Sterilization Case with Lid	1
Power cable	1

PLASTIC SURGERY BASIC INSTRUMENTS SET

S.NO	Items Description	QTY.
1	MAIER Sponge-/Dressing Forceps, curved, 260 mm (10 1/4"), jaw: serrated	2
2	Sponge-/Dressing Forceps, curved, 175 mm (6 7/8"), jaw: serrated	2
3	WATSON SKIN GRAFT KNIFE, 290 mm (11 1/2")	1
4	SKIN GRAFT BLADES 10/PKG, sterile, disposable	1
5	BRAND Grasping Forceps, curved, 185 mm (7 1/4"), jaw width 2 mm, 1 x 2 teeth	1
6	BRAND Grasping Forceps, straight, 150 mm (6"), jaw width 2 mm, 1 x 2 teeth	1
7	Aluminium Hand, 270 mm, 10 5/8", width: 190 mm, for children	2
8	Aluminium Hand, 410 mm, 16 1/8", width: 280 mm, for adults	2
9	OBWEGESER Spina-Nasalis Retractor, 215 mm (8 1/2"), 2 prongs, jaw depth: 42 mm, jaw width 10 mm	1
10	Ramus Retractor, 220 mm (8 3/4"), 2 prongs, jaw depth: 68 mm, jaw width 11 mm	1
11	WASSMUND Retractor, 220 mm (8 3/4"), 2 prongs, jaw depth: 30 mm, jaw width 20 mm	1
12	KIDNEY TRAY STAINLESS STEEL 250MM	2
13	LABORATORY DISH 0.3 L	2
14	LABORATORY DISH 0.16 L	2
15	BACKHAUS TOWEL CLAMP 110MM	2
16	TOWEL CLAMP FOR PAPER CLOTHS 115MM	24
17	SCALPEL HANDLE #3 125MM	2
18	Tissue Forceps, straight, medium, 160 mm (6 1/4"), jaw width 1.70 mm, 1 x 2 teeth	2
19	ADSON (MICRO) Tissue Forceps, straight, delicate, 120 mm (4 3/4"), jaw width 0.90 mm, 1 x 2 teeth	2
20	DE BAKEY ATRAUMATA® Atraumatic Forceps, straight, 150 mm (6"), jaw width 1.50 mm, toothing DE BAKEY	2
21	ADSON DUROGRIP Dressing Forceps (Tweezers), TC, straight, 120 mm (4 3/4"), jaw width 1.20 mm, serrated (cross)	2
22	Surgical Scissors, straight, standard, sharp/blunt, 145 mm (5 3/4")	1
23	METZENBAUM Noir Dissecting Scissors, curved, TC, delicate pattern, blunt/blunt, 180 mm (7")	1
24	MAYO-LEXER DUROTIP Dissecting Scissors, curved, TC, blunt/blunt, 165 mm (6 1/2")	1
25	KILNER Dissecting Scissors (Undermining Scissors), curved, delicate pattern, special flat blunt tip, 150 mm (6")	1
26	JAMESON Dissecting Scissors, curved, delicate pattern, blunt/blunt, 150 mm (6")	1
27	METZENBAUM (BABY) Noir Dissecting Scissors, curved, TC, delicate pattern, blunt/blunt, 145 mm (5 3/4")	1
28	Noir Delicate Scissors (Iris Scissors), curved, TC, delicate pattern, sharp/sharp, 110 mm (4 1/4")	1
29	DUROTIP Suture Scissors, curved, TC, wave cut, blunt/blunt, 180 mm (7")	1
30	GORNEY Dissecting Scissors (Facelift Scissors), curved, serrated (inside fine), blunt/blunt, 195 mm (7 3/4")	1
31	PEAN Hemostatic Forceps, curved, 140 mm (5 1/2"), serrated	2
32	MICRO-HALSTED FORCEPS DEL CVD 125MM	12

33	HARTMANN MOSQUITO FCPSDELCDV100MM	12
34	KOCHER Hemostatic Forceps, straight, 140 mm (5 1/2"), 1 x 2 teeth	2
35	MICRO-HALSTED Hemostatic Forceps (Mosquito Forceps), straight, 125 mm (5"), delicate, 1 x 2 teeth	12
36	BABY-MIXTER Dissecting a. Ligature Forceps, curved, 180 mm (7"), serrated	2
37	CZERNY Tenaculum Forceps, straight, 200 mm (7 7/8"), jaw: 4 x 4 teeth, jaw width 12 mm	1
38	MAYO-HEGAR DUROGRIP Needle Holder, TC, straight, 185 mm (7 1/4"), jaw: with 0.5 mm pitch of serration, for suture up to 3/0	2
39	CRILE-WOOD (BABY) DUROGRIP Needle Holder, TC, straight, 150 mm (6"), jaw: with 0.4 mm pitch of serration, for suture 4/0 - 6/0	2
40	RYDER Dia Dust Needle Holder, straight, very delicate, 140 mm (5 1/2"), jaw: tungsten carbide coated, for suture up to 5/0	1
41	HALSEY DUROGRIP Needle Holder, TC, straight, 130 mm (5 1/8"), jaw: with 0.4 mm pitch of serration, for suture 4/0 - 6/0	1
42	HOOK Retractor, large curve, 165 mm (6 1/2"), 1 prong, jaw depth: 9.50 mm, blunt	1
43	LANGENBECK-GREEN Retractor, 160 mm (6 1/4"), jaw depth: 24 mm, jaw width 6 mm	2
44	GILLIES Skin Retractor (Dura Retractor), 180 mm (7"), large, 1 prong, jaw depth: 5 mm, sharp	2
45	GILLIES Skin Retractor (Dura Retractor), 180 mm (7"), small, 1 prong, jaw depth: 4 mm, sharp	2
46	VOLKMANN Retractor (Rake), 220 mm (8 3/4"), 4 prongs, jaw depth: 8.50 mm, jaw width 19 mm, semi-sharp	2
47	VOLKMANN Retractor (Rake), 220 mm (8 3/4"), 6 prongs, jaw depth: 8.50 mm, jaw width 29 mm, semi-sharp	2
48	Retractor (Rake), 160 mm (6 1/4"), 1 prong, jaw depth: 8.50 mm, sharp	1
49	KOCHER Retractor, 230 mm (9"), jaw depth: 60 mm, jaw width 20 mm	2
50	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), jaw depth: 41 mm, jaw width 11 mm	2
51	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), jaw depth: 35 mm, jaw width 11 mm	2
52	Vein Retractor, 160 mm (6 1/4"), jaw depth: 10 mm, jaw width 13.70 mm	2
53	DESMARRES Lid Retractor (Vein Retractor), 140 mm (5 1/2"), jaw depth: 9 mm, jaw width 12 mm	2
54	Double Ended Probe, straight, 180 mm (7"), malleable, double ended, bulb-headed tip, Ø 2 mm	1
55	Double Ended Probe, straight, 160 mm (6 1/4"), malleable, double ended, bulb-headed tip, Ø 1.50 mm	1
56	Double Ended Probe, straight, 145 mm (5 3/4"), double ended, malleable, bulb-headed tip, Ø 1 mm	1
57	STEEL RULER 300MM	1
58	CURETTE 4.4MM 180MM	1
59	CURETTE 10MM 180MM	1
60	CURETTE 6.8MM 180MM	1
61	TRAY WITH LID FOR REDON GUIDE NEEDLES BBRAUN CODE: JF155R	1
62	Redon Spike Guiding Needle, slightly curved, 190 mm (7 1/2"), Ø Charr. 10, knife tip, threaded	1
63	Knife Electrode, monopolar, curved, 65 mm (2 1/2"), short shaft, Ø 4 mm, work. length: 30	1

64	Ball Electrode, monopolar, straight, 50 mm (2"), short shaft, Ø 4 mm, Ø ball: 4.0 mm	1
65	Knife Electrode, monopolar, straight, 60 mm (2 3/8"), short shaft, Ø 4 mm, work. length: 13 mm	1
66	HF-HANDLE LG.2 BUTTON 4MM 3-PIN PLUG	1
67	BOTTOM FOR 1/1 CONTAINER HEIGHT:120MM	2
68	PRIMELINE PRO 1/1 LID GOLD	2
69	1/1 SIZE PERF BASKET 540X253X76MM	2
70	SILICONE CUSHIONING PAD 1/1 SIZE	2
71	LUBRICATION OIL SPRAY BOX	2

**MEDICAL TEACHING INSTITUTION
AYUB TEACHING HOSPITAL
Radiology & Imaging Department**



No. 1132 /2026


Date: 28/01/2026

Deputy Director (EM)
Medical Teaching Institution
Ayub Teaching Hospital
Abbottabad.

Subject: Specification of Electro medical/Radiological Equipment for IBPP.

Reference to your letter no.ATH/EME/13-15/2026 dated 21-01-2026 regarding the subject cited above; the specification of the following Radiological equipment is enclosed herewith for further necessary action.

S.NO	Equipment Description	Specification pages
1.	X-ray machine with CR System	Total 03 pages
2.	Color Doppler Ultrasound Machine	Total 02 pages


Associate Prof. Dr. Azmat Ali
Chairperson (Radiology Department)

Copy to:

1. The Hospital Director, MTI Abbottabad.
2. The SM (Material Management), MTI Abbottabad.

COLOR DOPPLER ULTRASOUND WITH ELASTOGRAPHY

The vendors should quote their latest and high end models.

A. Ultrasound system

1. Must have a minimum of 21 inch or better LCD/LED and 10 inch or better touch screen, high-definition monitor easy viewing in virtually any environment.
 2. Full sized, floating keyboard allows you to enter data right where you are, reducing the strain of a reach.
Highly intuitive control layout positions your most used keys around the trackball, so you can focus on the patient instead of searching for the key.
Motorized/ hydraulic adjustable height to fit the system to the needs of the user with the simple touch of a button & tilting monitor.
 3. Frame rate 2000 FPS or better.
 4. Scanning depth 40 cm or better.
 5. Processing channels 150000 or more.
 6. 04 Active Transducer connector.
 7. Must support frequency range up to 18MHz or more.
 8. Support raw data storage with possibility to change.
 9. Must have multi modality query retrieve function that allows for the viewing of DICOM CT, Mammography, MRI and ultrasound images that can be reviewed while live imaging or equal.
 10. System should be capable of comparing old stored exam to current exam using automatically generated same imaging parameters.
 11. 500 GB or more HDD/SDD built in to the system.
 12. System should have tissue Doppler imaging.
 13. Must have Retrospective and prospective clip capture to internal drive or removable media or equal.
 14. Must have color power Doppler, Micro CPA/SMI/Vascular enhancement /B flow HD Color/Micro-V with color/Spectral to clearly show blood flow in tiny vessels.
 15. Must have 2D, M-Mode, Anatomic M-Mode, color flow Doppler, Pulsed wave Doppler (PW), High PRF=1 to 20 KHZ or better PW, continuous wave Doppler.
 16. Strain & Shear-wave elastography.
 - Support strain elastography with quantification software.
 - Strain & Shear-wave elastography for liver, breast, prostate, thyroid and uterus.
- B. Transducers and Accessories**
1. 02-05 MHz or better multi-frequency convex probe for B/M/CDI/PW & strain and share-wave elastography.

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MHz or better multi-frequency linear probe for B/M/CDI/PW & strain & Shear wave elastography.

3. 4 to 10 MHz or better Multi-frequency endocavity probe/TVS for B/M/CDI/PW & strain and shear-wave elastography.
4. Small foot print linear array transducer/hockey stick probe (08-18MHZ or better).
5. Attenuation imaging to provide the capability to measure and visualize the attenuation coefficient of the tissue for fatty liver evaluation.
6. Online UPS with at least 30 minutes backup.
7. Thermal printer and DVD Writer

Optional

5 to 10 MHz multi-frequency Endo rectal probe for prostate studies
4D light weight standard probe convex/linear.

Note: Probes and main unit should be of the same company/manufacturer.

C. Other items:(standard)

1. Synchronizing other modality volume set with ultrasound live image with ability to fusion, overlay – the more modalities it supports the better and higher technical score
2. Needle navigation/needle enhancement.
3. Ability to track needle in and out of plane to support interventional procedures.
4. Strain & shear-wave Elastography.
5. Support strain & Shear-wave Elastography with Quantification software.
6. Every manufacturer should submit their MODEL NO/SOFT WARE VERSION/CAT/PART NO in the technical specification.
7. Every manufacturer should submit their foreign application/Technical expert contact details (E mails etc) with the technical specifications.
8. All the manufacturers should submit original brochures and TDS endorsed by the principal.
9. Technical training and service manual.

10. Quality certificates

FDA (Mandatory)

CE/MHWL/JIS (any two)

Country of Origin must be Europe/USA/JAPAN.

Comprehensive warranty of 05 years with parts.

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SPECIFICATION FOR X-RAY MACHINE 500 mA (Floor Mounted)

- Micro processor based.
- 50 KW or more x-ray generator and up-to 50 KHz high frequency.
- mA: up-to 500 mA or more KV: 40 – 150 KV
- Should be preset for Automatic exposure control (AEC) with at least 100 programs
- Rotating Anode tube with double focus x-ray tube
- Dual focal spot sizes must be (0.6mm / 1.2mm) or better.
- Exposure Time range: 1ms-10 sec or more.
- Anode heat storage capacity of 300 KHU or more
- Digital display of parameters.
- Should have manual/automatic collimator.
- Rotating anode speed: 2700/min or more.
- Tube stand should be floor to ceiling mounted.
- Hand switches for Radiography.
- Automatic main line compensation.
- Four way moving table top Bucky tables should be capable of bearing patient weight of up to 150 kg or more.
- Should be capable to accept cassette sizes up to 14x17 inches or more when placed in either direction in the tray.
- Vertical Bucky Stand with Grid for all cassettes sizes.
- Manual movement with electromagnetic or mechanical braking.
- Three phase input power.
- Protective Lead Goggle (01), Gonadal shield (02) and 04 Lead Apron should be provided.
- Electrification, cooling, cabling, **leading of site, setting up and leading of operator console etc** will be the responsibility of the bidder.

Quality Certificates

- a. FDA (Mandatory)
- b. JIS/CE/MHLW (any two).

Country of Origin must be Europe/USA/JAPAN.

- **Comprehensive warranty of 05 years with parts including tube.**

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CR SYSTEM (COMPUTERIZED RADIOGRAPHY SYSTEM).

Digitizer Exposure size:

14x17, 14x14/11x14/10x14, 10x12, 08x10, 18x24cm(for Mammography)

Sampling pitch:

2 Types: up to 200 um or better. Digital Gradation level 4096 Levels (16 Bit)

Processing Capability

Up to 60 plates per/hour or better

Console

Image processing:

Automatic Body part Recognition Automatic Processing

Parameter study. Image Output:

Maximum:

Host: 2ch for Normal. 1ch for backup printer: 1ch for Normal, 1ch for backup.

DICOM Support:

Basic Gray scale print Management (SCU) Storage (SCU) Modality Work list Management

Modality performed procedure step.

Should be capable to enter & edit patient ID.

Gray scale Standard Display Function (Print output)

Computer Desktop (as per OEM manufacturer)

CPU Core i7 (13th generation) processor: 3.4 GHz Bit processing: 64 Bits or better.

Hard Disk NVME: 1 TB or better

Number of memory/Ram Slots: 02

Minimum Memory Ram Size: 16 Giga Byte, supported up to 32 Giga Byte USB

06 USB ports or better.

Graphics card:01 GB or better.

Monitor

Size: 24" or better.

Resolution: 1280x1024 or better. Brightness: 300 Cd/m² or

Better. Contrast Ratio: 2000:1 or better with Brightness stabilization

Back light sensor. Power saving mode & USB port.

Accessories: AC power cord, Signal Cable, USB cable.

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Cassettes/imaging plates Active dual tray system:

Different sizes cassettes/imaging plates.

14x17 (3 Nos)

14x14/ 11x14 (3 Nos)

10x12 (3 Nos)

8x10 (3 Nos)

Compatible printer online dual tray system

Films size options 14x17, 14x14/11x14/10x14, 10x12, and 8x10

Film: Dry image recording film.

Film supply day light setting.

Image Memory: Print Memory (64MB/Standard) Number of pixels: 50 um or better

Image Data input: 8-Bits/12-Bits.

Output Gradation: 16834 levels (14-Bits)

Image Mode: pixel Replication/ Function interpolation process processing Capability:

Print 80-Sheets/ hour or better

Protocol: DICOM print Management.

UPS

Online UPS with at least 30 minutes backup

Quality certificates

- a. FDA (Mandatory)
- b. CE/MHWL/JIS (any two)

Country of Origin must be Europe/USA/JAPAN.

Comprehensive warranty of 05 years with parts

Note: DICOM/PACS connectivity support will be provided by the vendor.

Handwritten signature and date: 28/01/26.

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AYUB MEDICAL TEACHING INSTITUTION (MTI)
Department Of Ophthalmology
Office of the Chairperson

ASSISTANT PROFESSOR DR. BUSHRA AAQIL
FCPS, MBBS (Gold Medalist)
Chairperson Ophthalmology Dept
AMC, ATH, ATD.

NO: 1406 PA/EAW/ATH/ATD
Dated: 29/09/2025

To

Deputy Director EM
Ayub Teaching Hospital
Abbottabad.

Subject:

SPECIFICATION OF ELECTRO MEDICAL EQUIPMENT

Reference your letter no. ATH/EME/1930-32/2025 dated 01-09-2025. Please find the attached list of specifications as required by you.

Thank you

Bushra Aaqil

Dr. Bushra Aaqil
Chairperson Eye Dept
ATH, ATD.

DR. BUSHRA AAQIL
MBBS, FCPS
CHAIRPERSON EYE UNIT
AMC ABBOTTABAD

Specifications of Equipments

Ophthalmoscope:

Light Source: LED.

Optics: Dust-free sealed optics with reflex-free imaging.

Filters:

Red-free filter (for vessel examination).

Cobalt blue filter (for corneal abrasions with fluorescein dye).

Apertures & Graticules:

Aperture Options: Large spot, small spot, slit, fixation cross.

Handle: Universal convertible handle.

Battery: Rechargeable lithium-ion.

Spare Parts: Includes spare bulbs and optional accessories.

Optical Features:

Diopter Compensation: ± 0 to $\pm 35D$

Retinoscope:

Illumination Source:

LED bulb

Light Control:

Adjustable brightness

Linear beam rotation

Power Supply:

Rechargeable lithium-ion.

Build & Design

Material: Lightweight engineering plastics or metal alloy

Portability: Compact and handheld

Accessories: Charger, carrying case, teaching mirror (optional)

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Air Puff Tonometer:

IOP Measuring Range: 1–60 mmHg (precision: 1 mmHg)

Measurement System: Dual sensor (light and pressure)

Working Distance: ≥ 11 mm

Measurement Frequency: 10 readings per eye; prints 3 results per eye

Modes: Auto/manual

Focus Detection: Auto mode with luminous spot alignment

Safety Features:

Safety limit button for head-patient distance

Printing: Built-in printer for IOP results

Biometry Machine with Keratometer and A Scan:

A-Scan Ultrasound Biometry Specifications

Probe Frequency: 10 MHz

Measurement Range:

Axial Length: 12.0 mm to 40.0 mm

Anterior Chamber Depth (ACD): 2.0 mm to 6.0 mm

Lens Thickness: 2.0 mm to 7.5 mm

Accuracy: ± 0.1 mm

Measurement Modes: Immersion / Contact; Auto / Manual

IOL Calculation Formulae: SRK-T, SRK-II, Holladay, Hoffer-Q, Haigis, Binkhorst, AME, Hill-RBF, Barrett, Olsen

Keratometer Specifications

Measurement Type: Dual-zone keratometry

Corneal Curvature: Measures radius and power in diopters

Astigmatism & Axis Orientation: High precision with optional topography

Applications: Contact lens fitting, IOL power calculation, keratoconus assessment

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Infrared Diode Laser Micropulse Trans scleral Laser:

Wavelength: 810 nm infrared

Laser Parameters

Exposure Duration (CW-Pulse): 10 ms – 9000 ms; continuous pulse up to 60 seconds

Exposure Interval (CW-Pulse): 10 – 3000 ms

MicroPulse Duration: 0.05 – 1.0 ms

MicroPulse Interval: 1.0 – 10.0 ms

MicroPulse Duty Cycle: Adjustable from 0.5%–50%

Treatment Power: 50 – 3000 mW (depending on delivery device)

Aiming Beam: Diode laser, 635 nm nominal

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