

Government of Khyber Pakhtunkhwa Health Department Procurement Cell (DGHS)

Standard Bidding Documents

For National Competitive Bidding Pakistan

For

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, GENERATORS, AMBULANCES WITH AMBULATORY ITEMS, MEDICAL WASTE TREATMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES ETC FOR THE YEAR 2017-18

April 2017

Revised and Final SBDs after Pre Bid meetings held w.e.f 24.04.2017 to 26.04.2017

PART ONE (UNCHANGEABLE)

- Instructions to Bidders (ITB)
- □ □ General Conditions of Contract (GCC)

PREFACE

These Bidding Documents have been prepared for use by Procuring Entities and their implementing agencies in the procurement of Goods through National Competitive Bidding (NCBs) under Rule (06) as well International Competitive Bidding (ICBs) Rule 41(g) KPPRA Rules 2014. These SBDs are prepared for Rate Contract under Government of Khyber Pakhtunkhwa District Govt Rules of Business 2015, 2nd Schedule Rule 3 (2), and Serial No.11 (Health) Sub-rule xiii for procurement of Equipment

In order to simplify the preparation of bidding documents for all procurement, the Bidding Documents are grouped in two parts based on provisions, which would remain the same for all the related procurements and that which are specific for each procurement Provisions, which are intended to be used un-changed are in <u>Part one</u>, which includes **Section I**, <u>Instructions to Bidders</u>, and <u>Section II</u>, <u>General Conditions of Contract</u> Data and provisions specific to each procurement and contract are included in <u>Part Two</u> which is further organized into six sections. <u>Sections I</u>, <u>II</u>, <u>III</u>, <u>IV</u>, <u>and V</u>, respectively contain <u>Invitation for Bids</u>; <u>Bid Data Sheet</u>; <u>Special Conditions of Contract</u>; <u>Schedule of Requirements</u>; <u>Technical Specifications</u>; <u>and the forms to be used</u>, while <u>Section VI</u> is about <u>Sample Forms</u>.

This is Part one, which is fixed and contains provisions, which are to be used, unchanged. Each section is prepared with notes intended only as information for the Procuring agency or the person drafting the bidding documents. They shall not be included in the final documents.

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Part One – Section 1

<u>Instructions to Bidders</u>

Notes on the Instructions to Bidders

This section of the bidding documents provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring agency. It also provides information on bid submission, opening, and evaluation, and on the award of contract.

Part One Section I contains provisions that are to be used unchanged. Part Two Section II (Bid Data Sheet) consists of provisions that supplement, amend, or specify in detail information or requirements included in Part One Section I and which are specific to each/every procurement

Matters governing the performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are not normally included in this section, but rather under Part one Section II, General Conditions of Contract, and/or P art Two Section III, Special Conditions of Contract. If duplication of a subject is inevitable in the other sections of the document prepared by the Procuring agency, care must be exercised to avoid contradictions between clauses dealing with the same matter.

These Instructions to Bidders will not be part of the contract.

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Instructions to Bidders

A. Introduction

1. Source of Funds	1.1	The Procuring agency/ies have received/applied for Loan/grant/federal/provincial/local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project /schemes specified in the bidding data and it is intended that part of the proceeds of this loan/grant/funds/ will be applied to eligible payments under the contract for which these bidding documents are issued.
	1.2	The funds referred to above in addition shall be —Public Fundl which according to 2 (l) of KPPRA Rules 2014 means (i) Provincial Consolidated Fund; (ii) foreign assistance; (iii) all moneys standing in the Public Account; and (iv) Funds of enterprises wholly or partly owned or managed or controlled by Government.
	1.3	Payment by the Fund will be made only at the request of the Procuring agency and upon approval by the Government of Khyber Pakhtunkhwa, and in case of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibits a withdrawal from the allocated fund account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Federal Government/ Khyber Pakhtunkhwa Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.
2. Eligible Bidders	2.1	This Invitation for Bids is open to all eligible bidders from eligible source as defined in the KPPRA Rules, 2014 and its Bidding Documents except as provided hereinafter.
	2.2	Bidders should not be associated, or have been associated in the Past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency 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 this Invitation for Bids.
	2.3	Government-owned enterprises in the Province of Khyber Pakhtunkhwa may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Khyber Pakhtunkhwa.
	2.4	Bidders shall not be eligible to bid if they are under a declaration of Ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with the Section 44(1) KPP Rules 2014.

3. Eligible Goods & Services	3.1	All goods and related services to be supplied under the contract Shall have their origin in eligible source countries of the world with whom the Islamic Republic of Pakistan has commercial relations and its Bidding Documents and all expenditures made under the contract will be limited to such goods and services. For purposes of this clause, —origin means the place where the Goods are mind, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility
	3.3	from its components. The origin of goods and services is distinct from the nationality of the Bidder.
4. Cost of bidding	4.1	The Bidder shall bear all costs associated with the preparation and Submission of its bid, and the Procuring agency named in the Bid Data Sheet, hereinafter referred to, as —the Procuring agency, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
5. Content of Bidding	5.1	B.The Bidding Documents The bidding documents include: a) Instructions to Bidders (ITB)
Documents		b) Bid Data Sheet c) General Conditions of Contract (GCC) d) Special Conditions of Contract (SCC) e) Schedule of Requirements f) Technical Specifications g) Bid Form and Price Schedules h) Bid Security Form i) Contract Form j) Performance Security Form k) Manufacturer's Authorization Form
	5.2	The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.
6. Clarification of Bidding Documents	6.1	An interested Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing. The Bidding Procuring agency will respond in writing to any request for Documents clarification of the bidding documents which it receives no later than three working days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Procuring agency's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.

7. Amendment of Bidding Documents	7.1	At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by an interested Bidder, may modify the bidding documents by amendment.
	7.2	All interested bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding On them.
	7.3	In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.
		C. Preparation of Bids
8. Language of Bid	8.1	The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the language specified in the Bid Data Sheet. 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 the language specified in the Bid Data Sheet, in which case, for purposes of interpretation of the Bid, the translation shall govern.
9. Documents Comprising the Bid	9.1	The bid prepared by the Bidder shall comprise the following components: a) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12 b) Documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted; c) Documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and d) Bid security furnished in accordance with ITB Clause 15.
10. Bid Form	10.1	The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.
11. Bid Prices	11.1	The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.
	11.2	Prices indicated on the Price Schedule shall be delivered duty paid (DDP) prices. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately.
	11.3	The Bidder's separation of price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating

	11.4	the comparison of bids by the Procuring agency and will not in any way limit the Procuring agency's right to contract on any of the terms offered. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A bid submitted with an adjustable price quotation will be treated as nonresponsive and will be rejected, In pursuance to ITB Clause 24. If, however, in accordance with the Bid Data Sheet, prices quoted by the Bidder shall be subject to adjustment during the performance of the contract, a bid submitted with a fixed price quotation will not be rejected, but the price adjustment would be treated as zero.
12. Bid Currencies	12.1	Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.
13. Documents Establishing Bidder's	13.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
Eligibility and Qualification	13.2	The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 3.
	13.3	The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted, shall establish to the Procuring agency's satisfaction: a) That, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country; b) That the Bidder has the financial, technical, and production capability necessary to perform the contract; c) That, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or technical Specifications; and d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.
14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents	14.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services, which the Bidder proposes to supply under the contract.

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14.2	The documentary evidence of the eligibility of the goods and
	services shall consist of a statement in the Price Schedule of the
	country of origin of the goods and services offered which, shall be
	confirmed by a certificate of origin issued at the time of shipment
14.3	The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of: a) A detailed description of the essential technical and performance characteristics of the goods; b) A list giving full particulars, including available e sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and c) An item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
14.4	For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.
15.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
15.2	The bid security is required to protect the Procuring agency against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
15.3	The bid security shall be in Pak. Rupees 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 Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or b) Irrevocable en-cashable on-demand Bank call-deposit.
	14.4 15.1

	15.4	Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as non-responsive, pursuant to ITB Clause 24.
	15.5	Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the procuring agency pursuant to ITB Clause 16.
	15.6	The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.
	15.7	The bid security may be forfeited: a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or b) In the case of a successful Bidder, if the Bidder fails: i. To sign the contract in accordance with ITB Clause 32; Or ii. To furnish performance security in accordance with ITB Clause 33.
16. Period of Validity of Bids	16.1	Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as non -responsive.
	16.2	In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.
17. Format and Signing of Bid	17.1	The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.
	17.2	The original and the copy or copies of the 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 bidder/ person or persons signing the bid shall initial all pages of the bid, except for un-amended printed literature.
	17.3	Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
_	17.4	The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to the contract execution if the Bidder is

	1	Awarded the contract.
		D. Submission of Bids
18. Sealing and Marking of Bids	18.1	The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an Outer envelope.
	18.2	The inner and outer envelopes shall:
		a. Be addressed to the Procuring agency at the address given in the Bid Data Sheet; and b. Bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.
	18.3	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 "late".
	18.4	If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid's misplacement or premature opening.
19. Deadline for Submission of Bids	19.1	Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 no later than the time and date specified in the Bid Data Sheet.
	9.2	The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
	9.3	In order to avoid the delays, the Procuring agency will hold a pre-bid meeting under section 24 (6) of KPPRA Act 2012 as per details given in Bid Data Sheet. The purpose of the pre-bid meeting is to clarify the functional requirements of the Procuring agency and the feedback from the bidders so offered. This is in line with the general principles of procurement as enunciated under section 03 of the KPPRA Act 2012
20. Late Bids	20.1	Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.
21. Modification And Withdrawal Of Bids	21.1	The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.
	21.2	The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18 by a signed confirmation copy, postmarked no later than the deadline for submission of bids.

	21.3	No bid may be modified after the deadline for submission of bids.
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	21.4	No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 15.7.
		E. Opening and Evaluation of Bids
22. Opening of Bids by the Procuring Agency	22.1	The Procuring agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.
	22.2	The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.
	22.3	Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.
	22.4	The Procuring agency will prepare minutes of the bid opening.
23. Clarification of Bids	23.1	During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The Bids request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted. The minor informality as indicated in ITB 24 will be waived of by getting written clarification regarding authenticity/visibility/health of the bids submitted. This communication shall be with the prior approval of chairman T&E committee
24. Preliminary Examination	24.1	The Procuring agency will 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.
	24.2	Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will 1 be rejected, and its bid security
	24.3	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.

	24.4	Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. 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.
	24.5	If a bid is not substantially responsive, it will be rejected by the
		Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity. The bids upon preliminary examinations would be dropped from detailed evaluation by declaring them NON-RESPONSIVE in the first phase, if they lack any of primary/mandatory documents in their technical bid.
25. Evaluation and Comparison of Bids	25.1	The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
	25.2	The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing duties and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
	25.3	The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:
		 a. Incidental costs b. Delivery schedule offered in the bid; c. Deviations in payment schedule from that specified in the Special Conditions of Contract; d. The cost of components, mandatory spare parts, and service; e. The availability Procuring agency of spare parts and after - sales services for the equipment offered in the bid; f. The projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and/or g. Other specific criteria indicated in the Bid Data Sheet and/or h. In the Technical Specifications.
	25.4	For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:
		a. Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at the final destination
		b. Delivery schedule. (i) The Procuring agency requires that the goods under the Invitation for Bids shall be delivered at the time Specified in the Schedule of Requirements, which will be treated as the base, a delivery "adjustment" will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery OR

		(ii) The goods covered under this invitation are (shipped), within an acceptable range of weeks a Schedule of Requirement. No credit will be g deliveries, and bids offering delivery beyond this treated as non-responsive. Within this accepta adjustment per week, as specified in the Bid Data added for evaluation to the bid price of bids offering than the earliest delivery period specified in the Requirements. OR (iii) The goods covered under this invitation are delivered in partial shipments, as specified in the Requirements. Bids offering deliveries earlier or specified deliveries will be adjusted in the evaluation the bid price a factor equal to a percentage, specified Sheet, of DDP price per week of variation frow delivery schedule.	specified in the given to earlier as range will be able range, and a Sheet, will be a deliveries later the Schedule of the Schedule of the later than the conduction on the bid ified in the Bid
		Specified under the relevant provision in Specifications to be considered responsive. Eval based on the cost per unit of the actual product offered in the bid, and adjustment will be added using the methodology specified in the Bid Data Technical Specifications. h. Specific additional criteria indicated in the and/or in the Technical Specifications. The relevant evaluation method shall be detailed Data Sheet and/or in the Technical Specification.	uation shall be tivity of goods to the bid price Sheet or in the Bid Data Sheet
Alternative	25.4	25.4 Merit Point System:	
		The following merit point system for weighing evaluation be applied if none of the evaluation methods listed has been retained in the Bid Data Sheet. The number allocated to each factor shall be specified in the Bid Sheet.	in 25.4 above per of points
		[In the Bid Data Sheet, choose from the range of]	
		Evaluated price of the goods	60 to 90
		Cost of common list spare parts	0 to 20
		Technical features, and maintenance & operating costs	0 to 20
		Availability of service and spare parts	0 to 20
		Standardization	0 to 20
		Total	100
		The bid scoring the highest number of points will be lowest evaluated bid.	deemed to be the
26. Contacting the Procuring Agency		Subject to ITB Clause 23, no Bidder shall contact agency on any matter relating to its bid, from the opening to the time the contract is awarded. If the Ebring additional information to the notice of the Prit should do so in writing.	time of the bid Bidder wishes to

	26.2	Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.
		F. Award of Contract
27. Post- qualification	27.1	In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.
	27.2	The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.
	27.3	An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
28. Award Criteria	28.1	Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the Highest Ranking fair bid/ Best evaluated bid under Section 2 (c)(i) of the KPPRA Act 2012, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.
29. Procuring agency's Right to Vary Quantities at Time of Award	29.1	The Procuring agency reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
30. Procuring agency's Right to Accept any Bid and to Reject any or All Bids	30.1	The Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring agency's action.
31. Notification of Award	31.1	Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
	31.2	The notification of award will constitute the formation of the Contract.
	31.3	Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.

32. Signing of Contract	32.1	At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties. Within twenty (20) days of receipt of the Contract Form, the
	32,2	successful Bidder shall sign and date the contract and return it to the Procuring agency.
33 Performance Security	33.1	Within ten (10) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
	33.2	Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.
34. Corrupt or Fraudulent Practices	34.1	The Government of Khyber Pakhtunkhwa requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government -financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the KPPRA, in accordance with the KPPRA Act, 2012 and Rules made there under: a. Defines, for the purposes of this provision, the terms set forth below as follows: i. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
		ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non - competitive levels and to deprive the Procuring agency of the benefits of free and open competition; b. Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question; c. Will forfeit the bid security for that particular bid/proposal in due course if the bidder could not establish his plea for not being involved in the corrupt or fraudulent practices d. Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government -financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.
	34.2	Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

36. Integrity Pact	35.1	The Bidder shall sign and stamp the Integrity Pact provided at
		Form - 7 to Bid in the Bidding Document for all Provincial
		Government procurement contracts exceeding Rupees ten million.
		Failure to such Integrity Pact shall make the bidder non - responsive.
		·

Part One - Section II.

General Conditions of Contract

Notes on the General Conditions of Contract (GCC)

The General Conditions of Contract in Part One Section II, read in conjunction with the Special Conditions of Contract in Part Two Section-III and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The General Conditions of Contract herein shall not be altered. Any changes and complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract in Part Two Section III.

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General Conditions of Contract

1. Definitions	1.1	In this Contract, the following terms shall be interpreted d as indicated:
		a. "The Contract" means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
		b. "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
		c. "The Goods" means all of the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Procuring agency under the Contract.
		d. "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
		e. "GCC" means the General Conditions of Contract contained in this section.
		f. "SCC" means the Special Conditions of Contract.
		g. "The Procuring agency" means the organization purchasing the Goods, as named in SCC.
		h. "The Procuring agency's country" is the country named in SCC.
		i. "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
		j. "The Project Site," where applicable, means the place or places named in SCC.
		k. "Day" means calendar day.
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. Country of Origin	3.1	All Goods and Services supplied under the Contract shall have their Origin in the countries and territories eligible under the rules and `Further elaborated in the SCC.
	3.2	For purposes of this Clause, "origin" means the place where the Goods were mined, grown, or produced, or from, which the Services are supplied. Goods are produced when, through manufacturing,
<u> </u>		

		Processing, or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
	3.3	The origin of Goods and Services is distinct from the nationality of the Supplier.
4. Standards	4.1	The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.
5. Use of Contract Documents and Information; Inspection and Audit by the Government	5.1	The Supplier shall not, without the Procuring agency'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 Procuring agency 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 Procuring agency'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 Procuring agency and shall be returned (all copies) to the Procuring agency on completion of the Supplier's performance under the Contract if so required by the Procuring agency.
	5.4	The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.
6. Patent Rights	6.1	The Supplier shall indemnify the Procuring agency against all third party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring agency's country.
7. Performance Security	7.1	Within ten (10) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
	7.2	The proceeds of the performance security shall be payable to the Procuring agency 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 Procuring agency 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 Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or
		b. A cashier's check or certified check.
	7.4	The performance security will be discharged by the Procuring agency 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. Inspections and Tests	8.1	The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
	8.2	The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring agency.
	8.3	Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.
	8.4	The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin. Nothing in GCC Clause 8 shall in any way release the Supplier from
9. Packing	9.1	any warranty or other obligations under this Contract. 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.

	9.2	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 Procuring agency.
10. Delivery and Documents	10.1	The Supplier in accordance with the terms specified in the Schedule of Requirements shall make delivery of the Goods. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.
	10.2	Documents to be submitted by the Supplier are specified in SCC.
11. Insurance	11.1	The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered; hence insurance coverage is seller's responsibility.
12. Transportation	12.1	The Supplier is required under the Contact to transport the Goods to a specified place of destination within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.
13. Incidental Services	13.1	The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC: a. Performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. Furnishing of tools required for assembly and / or maintenance of the supplied Goods; c. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. Training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. Prices charged by the Supplier for incidental services, if not included
	13.2	in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged for other parties by the Supplier for similar services.
14. Spare Parts	14.1	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 Procuring agency 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: Advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; Following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.
15. Warranty	15.1	The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
	15.2	This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.
	15.3	The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.
	15.4	Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.
	15.5	If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.
16. Payment	16.1	The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
	16.2	The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

	16.3	Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier
	16.4	The currency of payment is Pak. Rupees.
17. Prices	17.1	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring agency's request for bid validity extension, as the case may be.
18. Change Orders	18.1	The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, 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 Procuring agency; b. The method of shipment or packing; c. The place of delivery; and/or d. The Services to be provided by the Supplier.
	18.2	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 Procuring agency's change order.
19. Contract Amendments	19.1	Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties. However the covenants of the contract shall be qualified in SCC relating to the issues arriving out in contract Administration phase in line with GCC at the time of award of contract
20. Assignment	20.1	The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.
21. Subcontracts	21.1	The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.
	21.2	Subcontracts must comply with the provisions of GCC Clause 3.
22. Delays in the Supplier's Performance	22.1	Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements.
	22.2	If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of

		Supplier's notice, the Procuring agency 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 amendment of Contract.
	22.3	Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.
23. Liquidated Damages	2.31	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 Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.
24. Termination for Default	24.1	The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part: a. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or b. If the Supplier fails to perform any other obligation(s) under the Contract. c. if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this clause: "Corrupt practice," means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non -competitive levels and to deprive the Borrower of the benefits of free and open competition.
	24.2	In the event the Procuring agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall

		Liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.	
25. Force Majeure	25.1	Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.	
	25.2	For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.	
	25.3	If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.	
26. Termination for Insolvency	26.1	The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Procuring agency.	
27. Termination For Convenience	27.1	The Procuring agency, 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 be for the Procuring agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.	
	27.2	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 Procuring agency at the Contract terms and prices. For the remaining Goods, the Procuring agency may elect: to have any portion completed and delivered at the Contract terms and prices; and/or	
		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.	
28. Resolution of Disputes	28.1	The Procuring agency 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.	

	28.2	If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.
29. Governing Language	29.1	The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, 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 the same language.
30. Applicable Law	30.1	The Contract shall be interpreted in accordance with the laws of the Procuring agency's country, unless otherwise specified in SCC.
31. Notices	31.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
	31.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.
32. Taxes and Duties	32.1	Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.



Government of Khyber Pakhtunkhwa

Health Department

Procurement Cell (DGHS)

Standard Bidding Documents

For National Competitive Bidding Pakistan

For

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, GENERATORS, AMBULANCES WITH AMBULATORY ITEMS, MEDICAL WASTE TREATMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES ETC

FOR THE YEAR 2017-18

PART TWO (PROCUREMENT SPECIFIC PROVISIONS)

72	<u>iuns)</u>
	Invitation for Bids (IFB)
	Bid Data Sheet (BDS)
	Special Conditions of Contract (SCC)
	Schedule of Requirements
	Technical Specifications
	Sample Forms
	Eligibility

NOTE

The forms provided in Section VI should be completed by the Bidder or the Supplier; the footnotes in these forms should remain, since they contain instructions, which the Bidder or the Supplier should follow.

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Part Two Section I. Invitation for Bids

Notes on the Invitation for Bids

The Invitation for Bids (IFB) has been issued as an advertisement in leading newspapers of general circulation in the Province of Khyber Pakhtunkhwa as well as on the web site of the Health Department (www.healthkp@gov.pk) by allowing at least fifteen days for NCB for bid preparation and submission.

The Invitation for Bids provides information that enables interested bidders to decide whether to participate. Apart from the essential items listed in the Standard Bidding Documents (SBD), the Invitation for Bids also indicates the important bid evaluation criteria or qualification requirement (for example, a requirement for a minimum level of experience in manufacturing a similar type of goods for which the Invitation for Bids is issued) so that the bidders should give their best and final prices as no negotiations are allowed.

The Invitation for Bids is incorporated into these Standard Bidding Documents (SBDs). The information contained in the Invitation for Bids (IFB) conforms to the bidding documents and in particular to the relevant information in the Bid Data Sheet.

Invitation For Bids

Directorate General Health Services Khyber Pakhtunkhwa, Peshawar Procurement Cell

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, GENERATORS, AMBULANCES WITH AMBULATORY ITEMS, MEDICAL WASTE TREATMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES ETCFOR THE YEAR 2017-18

- 1. The Procurement Cell, Directorate General Health Services, Khyber Pakhtunkhwa Peshawar invites sealed bids under National Competitive Bidding from Manufacturers & Importers of Machinery, Equipment, Generators, Ambulances with Ambulatory items, Instruments, and other Hospital supplies etc. to Select & Rate Contract the same for procurement by various Procuring Entities of Health Department, Government of Khyber Pakhtunkhwa during the financial year 2017-18
- 2. Bidding shall be conducted through Single Stage –Two Envelopes Bidding Procedure comprising a single package containing two envelopes as per KPPRA Rules-2014. Each envelope shall contain separately Technical and financial bid clearly marked in bold & legible letters. The firms are bound to provide complete information of the bidder along with its postal as well as valid email address and phone number/s on each of the respective envelope.
- 3. Interested Manufacturers & Importers must obtain Application Form along with complete set of bidding documents from the Procurement cell at the Directorate General Health Services, Khyber Road Peshawar during office hours on any working day till 8th May 2017, against the non-refundable cash payment of Pak Rupees Two thousand per application form. Original Receipt of the paid amount must be attached to the Technical Bid inside its sealed envelope. The Bidding Documents can also be downloaded from the following official website.www.healthkp.gov.pk
- 4. A pre-bid meeting with the interested bidders category wise on specified dates in bid data sheet in the Conference Room of this Directorate.
- 5. Interested Bidders must submit sealed bids to the Procurement Cell at the Directorate General Health Services, Khyber Road Peshawar on or before 10:00 hours, Monday, May 08, 2017, which will be opened on the same day at 10:30 AM in the presence of those bidders or their representatives, who choose to attend the process. Bid submitted after 10:00 AM shall not be entertained.
- 6. Financial bid must be accompanied with Bid Security as per details given in bid data sheet and the same shall be in the shape of Pay Order (PO) / Demand Draft (DD) / Call Deposit Receipt (CDR) / Bankers Cheque in the name of the undersigned. Ordinary cheque in the firm of bid security will result in bid rejection summarily.
- 7. Technical bid must be accompanied with a photocopy of this bid security failing which the technical bid will be considered non-responsive.
- 8. Bid must be computer typed& printed; and the offered bid price must be written both in words & figures. An authorized person of the bidder/firm shall sign & stamp all pages of the bid. The same shall also contain product details in the form of original catalogue/Brochures.
- 9. All bidders are also required to submit the relevant detail of technical proposal and required documents in soft copies on Computer CD/DVD, duly labeled by a permanent marker with the name of bidder/ firm.
- 10. Bidders are required to offer most competitive lowest rate of their items, as negotiations on quoted rates are not allowed under the rules.
- 11. The undersigned reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Procurement Rules 2014.

Director General Health Services Khyber Pakhtunkhwa Peshawar Tel No: 091- 9210269

Fax No: 091- 9210230 Procurement Cell Tel No: 091-9210196

Section II. Bid Data Sheet BID DATA SHEET

ITD D. C	Introduction/Description	D-4-9
ITB Ref.	•	Detail
ITB 1.1	Name of Procuring Agency of Government Of Khyber Pakhtunkhwa.	Health Department Government of Khyber Pakhtunkhwa
ITB 1.1	Loan or credit or Project allocation Number. Loan or credit or Project allocation amount.	Budget allocated or any other Source through which amount is allocated for Health department for the year 2017-18
ITB 1.1	Name of Project	Selection & Rate Contracting under district Govt. Rules of Business 2015.
ITB 1.1	Name of Contract	S&RCC
ITB 4.1	Name of Procuring agency.	Procurement Cell, DGHS Peshawar Health Department Government of Khyber Pakhtunkhwa
ITB 6.1	Procuring agency's address, telephone, Telex, and facsimile, numbers.	Director General Health Services Khyber Pakhtunkhwa Peshawar Tel No: 091- 9210269 Fax No: 091- 9210230 Procurement Cell Office Tel No: 091-9210196 Email: pcdghs@gmail.com
ITB 8.1	Language of the bid.	English
	Bid Price and Curre	ncv
TED 44.0		
ITB 11.2 ITB 11.5	Price quoted shall be:	Pakistan Rupees (Rs.) The price will be fixed till 30th June 2018
110 11.5	The price shall be fixed	The price will be fixed thi Soul Julie 2018
	Preparation and Submission	n of Bids
ITB 13.3 (d)	Qualification requirements.	 Manufacturer/ Importer (Authorized agent of manufacturer) for category A,B & C specified in SOR. Manufacturer/Importer/ Authorized agents for category D. Manufacturer/OEM certified fabricators/Authorized Agents for Category E Manufacturer/Importer for Category F.
ITB 14.3 (b)	Spare parts required for period of years of Operation	i) Three Years free of cost under warranty ii) Ten Years parts easy availability in market
ITB 15.1	Amount of bid security.	i) Bid shall be @ 2% of bid value for Category-A,B,C,E & F ii) Rs. Five Lac (Rs.500, 000/-PKR) for Category D, as elaborated in Section-IV, Statement of Requirement.
ITB 16.1	Bid validity period.	120 days from the date of opening of bids
ITB 17.1	Number of copies.	One (original bid)
ITB 18.2 (a)	Address for bid submission.	Procurement Cell
, ,		Directorate General Health
		Services, Khyber Road, Peshawar

ITB 18.2 (b)	IFB title and number.	Procurement of Machinery& Equipment, Ambulances with Ambulatory items, Instruments and other Hospital supplies etc. for the year 2017-18	
ITB 19.1	Deadline for bid submission.	10:00 AM Sharp. May 08, 2017	
ITB 19.3	Pre-Bid meeting with the bidders	1) For Medical Equip, Anesthesia Equip, OT Equip & Autoclave: 24 th April 2) Lab Equip, Radiology, ENT, Orthopedics & Neonatal: 25 th April 3) Endoscopy, ophthalmology, Dental Equip, Generators, Ambulance & Medical waste Treatment Unit: 26 th April	
ITB 22.1	Time, Date, and Place for bid opening.	10:30 hours, 8 th May, 2017 Conference Room, Directorate General Health Services, Khyber Road, Peshawar	
Bid Evaluation			

	Bid Evaluation			
ITB 25.3	Criteria for bid evaluation.	Merit Point Evaluation		
		The items ranked highest in merit points (obtained through and based on technical and		
		financial evaluation) will get unit rate central		
		contract.		
ITB 25.4 (a)	One option only	Not Applicable		
	Delivery schedule. Relevant			
ITB 25.4 (b)	parameters in accordance with			
	option selected.	NY . A 1' 11		
Option I	Adjustment expressed as a Percentage, or adjustment expressed in	Not Applicable		
Option II	an amount in the currency of bid			
Option II	evaluation, or adjustment expressed in			
Option III	an amount in the currency of bid			
1	evaluation.			
ITB 25.4 (c)(ii)	Deviation in payment schedule.	Not Applicable		
	Annual interest rate.			
ITB 25.4 (d)	Cost of spare parts.	Not Applicable		
ITB 25.4 (e)	Spare parts and after sales service	Not Applicable		
	facilities in the Procuring agency's Country.			
ITB 25.4 (f)	Operating and maintenance costs.	Not Applicable		
ITB 25.4 (g)	Performance and productivity of	Not Applicable		
11 D 23.4 (g)	Equipment.	1 vot 1 ipplicative		
ITB 25.4 (h)	Details on the evaluation method or	As in section on Technical Evaluation of bids.		
	reference to the Technical			
	Specifications			
ITB 25.4	Specify the evaluation factors.	Not Applicable		
alternative		a		
ITB 28.1	Award Criteria	Section 2 (c)(i)		
	Contract Av	vard		
ITB 29.1	Percentage for quantity increase or	Number of items can be increased and		
	Decrease.	Decreased as per requirement of the PE within		
		permissible limits under the rules		

Section III. Special Conditions of Contract

Table of Clauses

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Special Conditions of Contract

The following Special Conditions of Contract shall supplement & qualify 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 Claus e 1)

GCC 1.1 (c) The Goods are: Machinery & Equipment, Ambulances with Ambulatory items, Instruments and other Hospital Supplies etc.

GCC 1.1 (g) **The Procuring Agency is:** Procurement Cell, Directorate General Health Services, Health Department, Government of Khyber Pakhtunkhwa, Peshawar; and

The Purchasing Agency/is /are: District Health Officers, Medical Superintendents, Hospital Directors, and other Heads of the Primary, Secondary and / or Tertiary Level Health Care Institutions of the Health Department, Government of Khyber Pakhtunkhwa.

- GCC 1.1 (i) The Supplier is: i) Manufacturer and/or Importer registered with relevant sales and income tax authorities and have requisite qualification and eligibility for supply of Goods in the specialized categories of health sector; and
- ii) Manufacture of Medical Equipment/ Machinery, Instruments & Medical Devices in Pakistan; and
- iii) Importer of Medical Equipment/ Machinery, Instruments & Medical Devices in Pakistan.
- iv). Manufacturer / Authorized fabricator of the Manufacturer/OEM certified fabricator from PEC in relevant category

2. Sample Provision:

GCĈ 1.1 (j)—The Project Site is: Office of Procurement Cell, Directorate General Health Service s, Khyber Road, Peshawar

When required, the Focal Person of the bidder will be informed on phone or through email to provide samples of the items in sufficient / required quantity for examination / analysis to the office of Procurement Cell, DGHS at bidder's own risk and cost at the time and date communicated. The samples will be non-returnable and no payment shall be made to bidder / Focal Person on this account.

3. Country of Origin (GCC Clause 3)

All countries and territories as indicated in Part Two Section.VI of the bidding documents Eligibility for the Provisions of Goods, Works, and Services in Government-Financed Procurement. This is to qualify that the bidder will have to provide the details regarding country of origin, Make & manufacturer, current model or previously supplied/manufactured model along with details of Manufacturing Units and mode of supply, shipment and any other associated details of the component items of the quoted equipment.

4. Performance Security (GCC Clause 7)

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be 10% i.e. (8+2) of the total value of each individual supply order placed to the successful bidder.

However, the bid security @ 2% of bid value or at flat rate of Rs. Five Lac (Rs. 500,000/-), as elaborated in Section-IV, Statement of Requirement, of this document, from the successful bidders as received at the time of bids submission under GCC Clause 15 shall be retained by the Procuring Agency as Performance Security till the end of contract period and will be released back to successful bidders after successful completion of all the contract obligations.

5. Standards (GCC Clause 4): As mentioned in GCC clause 4.1.

6. Inspections and Tests (GCC Clause 8 and in accordance with the clauses of contract with the Procuring Agency)

- i. The Technical Evaluation shall be conducted by the Technical and Evaluation (T&E) Committee to undertake verification of documents submitted b the bidder/s along with the technical bids as well as to conduct the physical inspection of the various samples/relevant premises etc. (Section-V -Technical Specification of the Part II of these SBDs).
- ii. Machinery & Equipment and other items supplied for sample tests shall be examined and tested by a panel of experts of the T&E Committee and / or the S&RCC of the Government for submission of technical report to the relevant forum for the needful.
- iii. Sample tests as well as pre-shipment inspections will also be carried out as and when needed before signing of contract agreement with all the successful bidders for Machinery & Equipment, instruments etc.
- iv. Any other appropriate method may be adopted by the T&E Committee, and / or S&RCC to assess and/or assure the quality of goods being purchased

7. Packing (GCC Clause 9)

In accordance with the GCC Clause 9 as well as provided in the relevant clauses of Contract agreement of DGHS with the Supplier/s (Section-VI of these SBDs —Rate Contract Agreement).

8. Delivery and Documents (GCC Clause 10)

Applicable Delivery Mode: Delivered Duty Paid (DDP) as per contract agreement of the Successful with the Procuring Agency

9. Warranty (GCC Clause 15)

The Supplier shall provide warranty as per the terms and conditions of the Rate Contract Agreement with Procuring Agency

GCC 15.2—In partial modification of the provisions, the warranty period shall be as per contract terms and conditions. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

a. Make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4,

or

- b. Pay liquidated damages to the Procuring agency with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be higher than the adjustment price used in bid evaluation.
- GCC 15.4 & 15.5— The period for correction of defects in the free warranty period is three years after installation with free parts and free services, including all incidental charges, and for the next two years for free services only without parts but with all incidental charges related to services provision on the site of installation
- GCC 10.3—Upon shipment, the Supplier shall notify the Procuring agency 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 Procuring agency:
- 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.

10. Payment (GCC Clause 16):

GCC Clause 16 as well as under the terms and condition in Rate Contract Agreement with the Procuring Agency, the goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after the goods having been delivered; hence insurance coverage is seller's responsibility, for which they may arrange appropriate coverage.

Payment shall be made in Pak. Rupees in accordance with the relevant and applicable government rules and regulations

11. Prices (GCC Clause 17)

- i) The bidder shall not quote price of any item/s which is/are higher than the prices quoted by the bidder across the country to any procuring entity of the quoted item/s through public funding.
- ii) In case the bid price is higher on estimated cost, the Procuring agency has the right to reject the bid and scrap the process without any liability.
- iii) In case of single bid after technical evaluation, the procuring agency will carry out the market analysis before issuing a letter of consent to the successful bidder.

13. Liquidate d Damage's (GCC Clause 23)

As in relevant clauses of the Rate Contract Agreement signed by the Supplier with the Procuring Agency.

14. **Disputes Resolution (GCC Clause 28)**

The dispute resolution mechanism to be applied will be pursuant to relevant clauses of Rate Contract Agreement signed by Supplier with the Procuring Agency.

If at all required, the jurisdiction of Court shall be of Peshawar, Khyber Pakhtunkhwa.

15. **Bid Tie.**

In case of tie in the final score of two bidders, and unless otherwise not in contradiction to any of the terms & conditions and specifications of that item, the rate contracting will be offered to the bidder having higher score in its technical bid and the same will be declared as highest fair bid (successful bidder).

16. Governing Language (GCC Clause 29)

The Governing Language shall be: English

17. Applicable Law (GCC Clause 30)

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

- i. The KPPRA Act 2012
- ii. The KPPRA Rules 2014
- iii. The Contract Laws
- iv. The General Financial Rules of the Govt. of Khyber Pakhtunkhwa and all the Relevant laws, rules and regulations pertaining to budgeting & financial management of public fund
- vi. The Bonded Labor System (Abolition) Act of 1992
- vii. The Factories Act 1934

18. Notices (GCC Clause 31)

GCC 31.1—Procuring Agency address for notice purposes: **Office of Director Procurement Cell (PC)**, Directorate General Health Services, Khyber Pakhtunkhwa, Khyber Road, Peshawar.

Tel: 091-9210196, Fax:091-9210230, Email: pcdghs@gmail.com

Supplier r's address for notice purposes: As mentioned in their bidding documents

19. Duties & Taxes (GCC clause 32)

The Unit price quoted by the bidder shall be: **inclusive** of all duties and taxes. all prices shall include relevant taxes & duties, where applicable. If there is no mention of taxes, the offered/ quoted price shall be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Procuring Agency.

20. Legal Documentary Proof

The bidder must possess valid legal enforceable exclusive authorization from the Foreign/Local Manufacturer; they should have a documentary proof to the effect that they are the original Manufacturer of the required goods.

21. Ineligibility for Corrupt and Fraudulent Practices

Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government (Federal, Provincial), a local body or a public sector organization.

22. Letter of Authorization

The Authorized agent shall have to produce Exclusive letter of authorization / Sole Agency Certificate from Manufacturer and in case of Manufacturer, documentary proof to the effect that they are the original Manufacturer of the required goods shall be provided, or joint venture/ consortium/ alliance of the local Sole agents/manufacturers.

23. Technical Staff and Tools

The Bidder should have strong engineering background and necessary tools/ test equipment, trained staff for the goods required after sales services.

24. Minor Deviation

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

25. Deviation from critical Provision

Deviations from, or objections or reservations to critical provisions shall be deemed to be a material deviation for technical proposals and thus the bid will be declared as Non-responsive.

26. Prevailing Rules, Regulation and Policies

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

27. **OEM**

The Manufacturer should have documentary evidence to the effect that they are the original Manufacturer of the quoted product with indication of manufacturing site and its location.

28. After Sale Service

Certificate from the manufacturer that the after sales services / backup services shall be provided jointly with the local sole agent and in case of change of local agent, they will provide the after sales services themselves or through newly appointed agent for the period mentioned from the date of commissioning.

29. Testing and Calibration

The firm must have all kind of testing and calibration equipment, which is required to maintain the products, which they are dealing. The list of all required testing equipment would be provided along with the bid including its model number and serial numbers. The available testing equipment must be calibrated.

30. Manufacturer Official Website

The quoted model of imported product shall be available on the current official website of the manufacturer; otherwise the quoted product shall be considered obsolete/ redundant and will straight away be rejected.

31. Inspection the Premises

The Procuring Agency has the right to inspect the premises of bidder to inspect the setups ensuring proper after sales service

32. Opening of the Financial Proposals

After technical evaluation is completed, the Procuring Agency shall notify the date, time and location for opening of the financial proposals. Bidders' attendance at the opening of financial proposals is optional

33. Incomplete and Conditional Bids

Incomplete bid shall stand rejected. All items described in the technical proposal must be priced in financial proposal. Items described in the technical proposal but not priced, shall be assumed to be included in the price of other items. No conditional bid in term of financial bid will be entertained and the bidder will straight away be disqualified

34. Bidders Influence

Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract Award will result in the rejection of the Bidder's bid and subsequent black listing, if Procuring agency so desires. Canvassing by any Bidder at any stage of the Tender evaluation is strictly prohibited.

35. Quantity Variation

The Procuring Agency reserves the right at the time of Contract award to increase or decrease the quantity of goods as per permissible limits under the Rules 2014 originally specified in Schedule of Requirements without any change in unit price or other terms and conditions

Section IV. Schedule of Requirements

Instructions relating to Category A, B, C, E & F items:

- As detailed elsewhere in this document, 02% bid security for the above mentioned categories shall be submitted by each bidder on the total quantity of items for which bid is being submitted.
- Any two of the following three product / item specific valid international certifications shall be mandatory for the items enlisted/included in category-A, whereas the certificates are given due weightages in the respective evaluation criteria, to qualify for bidding competition:

US FDA

JIS

CE (MDD)

- It is further clarified that the bid not possessing any two of the above mentioned certificates for category-A shall be dis-qualified for this bidding competition.
- The mode of provision of bid security shall be in accordance with the modalities as laid down in the relevant KPPRA Rules and these Revised Standard Bidding Documents.
- In case of imported items, the quoted items should be registered for use in their country of origin, for which the Importers should provide valid Certificate for their quoted products duly attested by the embassy of the country of origin in Pakistan or the embassy of Pakistan in the country of origin of the quoted items.
- Valid product authorization certificate (attested from the embassy of the country of origin in Pakistan or Pakistani embassy in the country of origin). Non-provision of the embassy attested certificate would lead to disqualification of firm.
- All ISO certifications shall be accredited and validated by PNAC (Pakistan National Accreditation Council). T&E committee will carry out the verifications before award of contract and in case of any fraudulent practice; legal action will be taken against the bidder concerned.
- Non-Provision of these mandatory documents shall lead to disqualification of the quoted items
- The bidding is carried out for Rate Contract and hence the quantity mentioned against each of the following items is an estimated one and may be increased as per requirement / decision of the procuring entity and in this connection no claim shall be entertained.
- The Procuring Agency, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in Supplier's capacities may require the Suppliers to provide information concerning their professional, technical, financial, legal or managerial competence
- The schedule for supply of goods shall be as under:
 - Within 90 days from the date of issuance of supply order by the Purchasing Agency for items to be imported.
 - Within 60 days from the date of issuance of supply order by the Purchasing Agency for items to be locally manufactured.

Instructions relating to Category-D items:

- For all other items enlisted/included in category-D, a standard bid security at a flat rate of Rs. 500,000/- (Five hundred thousand) shall be required, inter alia, for each bid to be responsive
- The bidding is carried out for Rate Contract and hence the quantity mentioned against each of the following items is an estimated one and may be increased as per requirement / decision of the procuring entity and in this connection no claim shall be entertained.

S.No	Nomenclature	Category
5.110		Category
1	(Specifications are given at SOR Section IV) ICU Central Station with Cardiac Monitors for 8/10/12 Beds	A
2	Cardiac Monitor for DHQ level hospital.	
	Cardiac Monitor for category C and low level hospitals.	A
3	1	A
4	Anesthesia Machine with Two Vaporizers	Α
5	Echo Machine	A
6	ICU Ventilator	A
7	Transport Ventilator	A
8	ETT	A
9	Bronchoscope full set with all accessories.	A
10	Cystoscope with Light Source complete	A
11	Endoscope Gastro duodenal	A
12	Laparoscope Machine for Gynea/OBS	A
13	Naso-pharyngoscope with Suction & Forceps	A
14	Esophagoscopes with instrument set.	A
	Bronchoscope rigid	
15	Sinus endoscopy set with proof puncture needles.	A
16		A
17	Sigmoido scope with Universal Lighting.	A
18	Blood gas Analyzer.	A
19	Fully Automated Chemistry Analyzer.	A
20	Chemistry Analyzer.	A
21	Elisa machine with washer.	A
22	Hematology Analyzer.	A
23	Arterial Blood Gas Analyzer.	A
	X-ray plants 1000mA AC and battery operated in built or external AVR	A
24	provided by the manufacturer. X-ray plants 500mA AC and battery operated in built or external AVR	
25	X-ray plants 500mA AC and battery operated in built or external AVR	Α
25	provided by the manufacturer. X-ray plants 300mA AC and battery operated in built or external AVR	<u> </u>
26	provided by the manufacturer.	A
27	Mobile X-ray plant 300mA AC & battery operated.	A
28	CR-system (computerized radiography system).	A
29	DR System for existing X-ray Machine	A
29	Ultrasound Machine (general purpose) with multiple probes and thermal	1
30	printer.	A
31	ENT Examination chair	A
32	ENT Examination unit with Cautery suction.	A
33	Direct micro laryngoscope	A
34	C- Arm (Image Intensifier)	A
35	B.Scan.	
33	Phaco emulsification Machine having facility of interior vitrectomy and wet	A
36	bipolar cautery.	A
37	bipolar cautery. Auto Refractor with karactometer.	A
38	Operating Microscope.	A
39	Slit lamp	A
40	Medical Waste Treatment Unit 300L	B
	Medical Waste Treatment Unit 200L	
41	Autoclave Automatic 100 litters.	В
42		В
43	Autoclave Automatic 150 litters.	В
44	Autoclave Automatic 200 litters.	В
45	Autoclave Horizontal/Vertical type (100 litters)	В
46	Autoclave Horizontal/Vertical type (150 litters)	В
47	Autoclave Horizontal/Vertical type (200 litters)	В
T /		
48	Defibrillator	В
	Defibrillator ECG Machine 12 channels (for DHQ level hospitals).	B B

<i>5</i> 1	Infusion Pump.	D
51	Pulse Oximeter.	В
	Humidifier.	В
53	Ripple Mattress	В
54	24 hour BP monitory machine	В
55	Nebulizer.	В
56		В
57	Oxygen Concentrator	В
58	Air Purification System	В
59	Electric Surgical unit diathermy.	В
60	Emergency Light with single reflector AC/DC or examination light AC/DC.	В
61	Hydraulic Operation Table.	В
62	Portable lamps AC/DC or emergency light AC/DC.	В
63	Resuscitation Trolley.	В
64	Shadow less lamp/ceiling type or ceiling OT light for minor OT or ceiling OT light for post-mortem.	В
65	Suction Machine Heavy Duty.	В
66	Automated Electrolyte Machine.	В
67	Automated ESR System.	В
68	Manual ESR System.	В
69	Blood Screening Counter.	В
70	Centrifuge (bench top) for DHQ level hospital.	В
70	Laboratory centrifuge for category C or level hospitals.	В
	Deionizer.	
72	Laboratory Incubator.	В
73	PH Meter.	В
74		В
75	Spectrophotometer.	В
76	SS Filtration Assembly.	В
77	Urine Meter.	В
78	Vortex Mixer.	В
79	Binocular Microscope.	В
80	Blood bank Refrigerator.	В
81	Dry Heat Sterilizer/Hot Air Oven.	В
82	Automated Blood Shaker.	В
83	Water Bath.	В
84	Automatic Film Processor	В
85	Pure Tone Audiometer	В
86	Head Light with Cool Illumination.	В
87	Air Drill with Cylinder/Orthopedic Pneumatic Drill with Cylinder.	В
88	Fracture Operation Table with Ortho Traction Attachment.	В
89	Spica Table.	В
90	Baby Incubator.	В
91	Phototherapy Unit.	В
92	Infant Warmers (Radiant Warmer)	В
93	Baby Suction Machine	В
94	Electric Amalgamator.	В
95	Electric Cautery(dental)	В
96	Dental Unit with chair.	В
97	Dental X-ray unit.	В
98	Mini Autoclave Automatic.	В
99	CTG Machine.	В
100	Sonic Aid Machine/ Fetus Heart Detector	В
101	Gynae Vacuum Suction apparatus/ vacuum extractor with accessories.	В
102	D & C Table/ Delivery Table.	В
102	Bed side steel stairs	C
103	Bed with side Table and over bed trolley.	C
104	Bed side table.	C
105	Beds with side table & over bed trolley for recovery room.	C
	Drip stand	
107	Dip state	C

108 Couch for Ultrasound / Examination couch 109 Gynae examination couch 110 Instrument trolley. 111 Patient Trolley. 112 Railing for beds 113 Wheel Chair 114 Orthopedic Traction Bed 115 Dissection Table 116 Dressing Trolley 117 Eclampsia Bed 118 Steel Almirah for medicines	C C C C C C C
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114 Orthopedic Traction Bed 115 Dissection Table 116 Dressing Trolley 117 Eclampsia Bed 118 Steel Almirah for medicines	C C C
115 Dissection Table 116 Dressing Trolley 117 Eclampsia Bed 118 Steel Almirah for medicines	C C
116 Dressing Trolley 117 Eclampsia Bed 118 Steel Almirah for medicines	С
117 Eclampsia Bed 118 Steel Almirah for medicines	
118 Steel Almirah for medicines	
110	С
	C
119 OPD chairs S.S	C
120 Revolving steel stool	C
121 Surgeon revolving steel stool	С
122 Screen	С
123 Steel file racks	С
124 Dry Clean Trolley	С
125 Baby Cots	С
126 All Surgical instruments and instrument set	D
127 Adult weighing scale	D
128 Proctoscope for adult and child.	D
129 Baby weighing scale	D
130 BP apparatus with stand	D
131 BP apparatus with pediatrics cuffs.	D
132 BP mercury desktop.	D
133 BP Set Wall Mounted	D
134 Diagnostic Set Paeds	D
135 Ear Syringe	D
136 ENT Diagnostic Set (adult)	D D
137 Glucometer	D D
138 Otoscope Rechargeable	D D
139 Peak Flow Meter	D D
140 Stethoscope	D D
141 Stethoscope Nursery	D D
141 Stethoscope Nutsery 142 Ambo bag Paeds	D D
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146 Vision testing drum	D
147 Lens Set (Plus 78D) 148 Binocular Magnifier	D
110	D
149 Ophthalmoscope	D
150 Ophthalmoscope + Retinoscope Rechargeable	D
151 Measuring stand for infant	D
152 Baby Anesthesia Set	D
153 Bain Circuit	D
154 Endo Tracheal Tube	D
155 Face mask	D
156 Laryngeal Face mask	D
157 Airways	D
158 Pediatric circuit	D
159 Randall Baker face mask	D
160 Sam Circuit	D
161 Stylets Adult	D
162 Stylets Paeds	D
163 Oxygen, Nitrous Oxide CO2 and Air 240 Cft Cylinder with Trolley	D
164 Oxygen, Nitrous Oxide CO2 and Air 48 Cft Cylinder with Trolley	D

166	165	Oxygen Cylinder Key	D
167	165		D
Automatic pipette (Full Set) D			
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170 Bone Marrow needles (Adults) D D D D D D D D D			
171 Bone Marrow needles (Pediatrics) D 172 Centrifuge Tubes (Glass) D D 173 Centrifuge Tubes (Plastic) D D D 174 Containers for sputum D D D 175 Containers for sputum D D D 176 Cover Slip D D 177 ESR Pipettes D D 177 ESR Pipettes D D 177 ESR Pipettes D D 178 DLC Counter D D D 179 ESR Rack D D D 181 ESP Pipette D D D 182 Canada D D 183 ESR stand for five Tube D D 183 ESR stand for five Tube D D 184 Glass Wares D D 185 Sate pipettes (different sizes) D D 185 Sate pipettes (different sizes) D D 185 Sate pipettes (different sizes) D D 186 Sate pipettes (adjustable D D 186 D 186 D 187 D 187 D 187 D 188 D D 188 D 188 D 188 D 188 D 188 D D 188 D 188 D D 188 D 188 D D D D D D D D D			
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221 Lead Glass Shield D			D
	221	Lead Glass Shield	D

222	Immersion Rod	D
223	Plastic Apron	D
224	Clamps	D
225	Wet Film Stand	D
226	Manual Film Processor	D
227	X-Ray Viewer	D
228	Plaster Cutting Electric Saw	D D
229	Indirect Ophthalmoscope	D
230	Refraction Box	D
230	Mattress Foam with Raxine Cover	
	Blanket	D
232	Bed Sheet	D
233	Pillow with cover	D
234	OT Gown	D
235		D
236	OT Caps	D
237	OT Sheet	D
238	OT Shoes	D
239	Table Cover small	D
240	Table Cover large	D
241	AC 1.5 tones Split unit inverter type with 10 KVA stabilizer (copper winded)	D
242	AC 1.5 tones Split unit with 10 KVA stabilizer (copper winded)	D
243	AC 2 tones split unit inverter type with 10 KVA stabilizer (copper winded)	D
244	AC 2 tones split unit with 10 KVA stabilizer (copper winded)	D
245	AC Split 01 Ton split unit inverter type with 10 KVA stabilizer (copper winded)	D
246	Deep Freezer	D
247	AC Split 01 Ton split unit with 10 KVA stabilizer (copper winded)	D
248	Geyser 250 Litter	D
249	OT Shoes	D
250	Refrigerator 14Cft	D
251	Refrigerator 12 CFT	D
252	Refrigerator 18 CFT	D
253	Electric Water Cooler	D
254	Cupboard Steel Large	D
255	File Cabinets Steel	D
256	Steel File rack	D
257	Steel Rack for medicine	D
258	UPS 4000 watts with battery	D
259	Ambulances	Е
260	Generators (Diesel)	F

Category: Medical Equipment

S#	Nomenclature	Specification	Qty
1	ICU Central	CENTRAL MONITOR FOR A MINIMUM FOR 12 BEDSIDE MONITORS	
1	Station with	CENTRAL MONITOR FOR A MINIMUM FOR 12 BEDSIDE MONITORS	
	cardiac monitors for	Central Station Monitor for use in intensive and coronary care units	
	8/10/12 beds	• Unit shall be capable of monitoring a minimum of 8 beds and a maximum of 12beds.	
		Shall provide a minimum of five 24 hour trends per monitor	
		Shall allow instant alarm bed viewing	
		The bed status shall always be displayed	
		The user shall be able to easily configure the display	
		Shall be capable of producing a shift report	
		• Shall be supplied with the following:-	
		Hub Controller	
		Hub – central Nurse Station interface	
		• Cabling	
		Installation Kit	
		• 8/10/12 Bed Installation Kit(according to the need of institution)	
		• Laser Printer Interface, Laser Printer (model must be mentioned)	
		Central Monitor (Dual) Size: 32" or better	
		Software from same manufacturer with all certificates	
		Branded CPU:	
		• Intel Core i7,	
		Processor 8Mb cache 3.40GHz	
		• 16GB RAM DDR3	
		1TB internal Hard Disk	
		8GB graphic card	
		DVD R/W	
		All the parameters displayed on the monitors should also be displayed on the central station monitor and will be compatible with each other.	
		Multi Danamatan Datiant Manitan	
		Multi Parameter Patient Monitor • (6ch ECG, SpO2, NIBP, IBP, TEMP, Resp.,ETCO2)	
		 October 25, SpO2, MB1, 1B1, 1EM1, Resp.,ETCO2 Display for easy Viewing 12" or better color TFT/LCD for easy set-up User selective up to 8 	
		traces display.	
		Advance for high-end-user	
		• ECG, SpO2, NIBP, IBP, 2-TEMP, and Respiration	
		EtCO2 (Side stream type with basic accessories)	
		18 or more Arrhythmias analysis T accompant	
		S-T segmentPacemaker detection.	
		 Save up to 30 Event management 	
		(15 sec Arrhythmia ECG wave recall)	
		• Fast set-uptime	
		VGA signal output to external monitor	
		IBP cable and sensor kit	
		Oximeter available	
		 Up to 72 hours of graphic and tabular trend of all parameters, PERFORMANCE: 	
		Heart rate: 30 ~ 300 bpm or better on either sides	
		Respiration	
		• Respiration rate: 2~150bpm or better on either side.	
		 SPO2 Range: 30 ~ 100% or better on either side 	
		 Range: 30 ~ 100% of better on either side Neonate and adult probe. 	
		Treonate and adult proce.	1

		• Temperature range; 0 -50C(32 - 122F)
		GENERAL: Display 12" on botton Color TET/ LCD on botton (with all a constant display)
		Display: 12" or better Color TFT/ LCD or better(with all parameters display) Alorm
		 Alarm Alarm: All parameters on/off selective independently
		Power input 220Vac,50Hz
		With Battery backup.
		Backup time: Minimum 02 hours or better
		<u>ACCESSORIES:</u>
		ECG 5 Lead cable with disposable electrodes. 1
		• ECG 3Lead Extension cable minimum 3 meters.
		Disposable Electrodes Adult, Neonate & Paeds. 10each
		SPO2 Finger sensor with fixed or detachable extension (for adult, Peads and neonate)
		• Cable of minimum 3 meter length. 1
		NIBP Reusable Neonate, Paeds & Adult Cuff
		• NIBP Hose
		• ·AC power code 1
		• Ground cable
		Operation Manual 1 DTG00 (Giller of School of Sch
		• ETCO2 (Side stream) with basic acc.
		• · IBP Cable
		Temperature sensor & cable
2	Cardiac Monitor	Multi Parameter Patient Monitor
2	for Higher level	• (6ch ECG, SpO2, NIBP, IBP, TEMP, Resp.,ETCO2)
	Hospital	• Display for easy Viewing 12" or better color TFT/LCD for easy set-up User selective upto 8
	Позриш	traces display.
		Advance for high-end-user
		• ECG, SpO2, NIBP, IBP, 2-TEMP, and Respiration
		EtCO2 (Side stream type with basic accessories)
		18 or more Arrhythmias analysis
		S-Segment
		Pacemaker detection
		Save up to 30 Event management
		• (15 sec Arrhythmia ECG wave recall)
		Fast set-uptime
		VGA signal output to external monitor
		IBP cable and sensor kit
		Oximeter available
		 Up to 72 hours of graphic and tabular trend of all parameters,
		PERFORMANCE:
		• <u>Heart rate</u> : 30 ~ 300 bpm or better on either sides
		Respiration
		• Respiration rate: 2~150bpm or better on either side.
		• <u>SPO2</u>
		• Range: 30 ~ 100% or better on eithers ide
		Neonate and adult probe. To a second to the second t
		• Temperature range; 0 -50C(32 - 122F)
		• GENERAL:
		Display: 12" or better Color TFT/ LCD or better(with all parameters display)
		• Alarm
		Alarm: All parameters on/off selective independently Deventional 220V/se 50V/se
		Power input 220Vac,50Hz With Pottory healtype
		With Battery backup. Packup time: Minimum 02 hours or batter.
		Backup time: Minimum 02 hours or better ACCESSORIES:
		ECG 5 Lead cable with disposable electrodes. 1
		ECG 3 Lead Extension cable minimum 3 meters. 1 1 1 1 1 1 1 1 1 1 1 1 1
		 Disposable Electrodes Adult, Neonate &Paeds. 10each
		SPO2 Finger sensor with fixed or detachable extension (for adult, Peads and neonate)
		• Cable of minimum 3 meter length.
		NIBP Reusable Neonate, Paeds& Adult Cuff 1
		NIBP Hose 1

• AC power code

		a Crown double
		• Ground cable 1
		Operation Manual 1
		• ETCO2 (Side stream) with basic acc. 1
		• IBP Cable 1
		• Temperature sensor & cable 1
_		
3	Cardiac Monitor	Multi Parameter Patient Monitor
	for Category C &	• (6ch ECG, SpO2, NIBP, TEMP, Resp.)
	low level	Display for easy Viewing 12" or better color TFT/LCD for easy set-up User selective up to 6
	Hospitals	traces display.
		Advance for high-end-user
		• ECG, SpO2, NIBP, 2-TEMP, and Respiration
		18 or more Arrhythmias analysis
		• S-T segment
		Pace maker detection
		Save up to 30 Event management
		• (15 sec Arrhythmia ECG wave recall)
		Fast set-uptime
		VGA signal output to external monitor
		Oximeter available
		 Up to 72 hours of graphic and tabular trend of all parameters,
		PERFORMANCE:
		• Heart rate: 30 ~ 300 bpm or better on either sides
		Respiration
		• Respiration rate: 2~150bpm or better on either side.
		• <u>SPO2</u>
		• Range: 30 ~ 100% or better on either side
		Neonate and adult probe.
		• Temperature range; 0 -50C(32 - 122F)
		GENERAL:
		Display: 12" or better Color TFT/ LCD or better(with all parameters display)
		Alarm: All parameters on/off selective independently
		• Power input 220Vac,50Hz
		With Battery backup.
		Backup time: Minimum 02 hours or better
		ACCESSORIES:
		ECG 5 Lead cable with disposable electrodes. 1
		• ECG 3Lead Extension cable minimum 3 meters. 1
		Disposable Electrodes Adult, Neonate &Paeds. 10each
		SPO2 Finger sensor with fixed or detachable extension (for adult, Peads and neonate)
		• Cable of minimum 3 meter length. 1
		NIBP Reusable Neonate, Paeds & Adult Cuff 1
		• NIBP Hose 1
		• AC power code 1
		• Ground cable 1
		Operation Manual 1
		Temperature sensor & cable

Echo Machine Digital Echocardiography Machine Fully Digital Beam Former Having 128 Physical Channels and 100,000 Or More Processing Channels With Integrated Data Management System Having 250GB Hard Disk Drive for Still and Cine Clips Storage. Modes 2D/M-Mode, Doppler, Pw, Cw & Hprf Doppler, Color Flow Imaging System Capability 2.5 - 14 MHz or More, M-Mode, Tissue Harmonic Imaging, Tissue Doppler Imaging With Pulse Wave TDI Doppler Spectrum. Viewing Depth: 30cms or better. Frame Rate: 1000 or better. Built-In Cine Loop: 2000 Frames/256 MB Or better. Real Time Freeze & Image Magnification Ability better than 4x Pre & Post Processing Sweep Speed: Slow, Medium, Fast 8" Or More Touch Command Screen for easy Operation of the System. System Dynamic Range: 30 to 212db or better **Doppler Mode Specifications:** Pulse Repetition Frequency Range; PWD: 0.5 To 10Khz CWD: 1.6 To 50Khz Highest Velocity Range; 130cm Or More Lowest Detectable Velocity Range; 3.2 cm for better For Sector Probe and 0.5 for Linear Probe or better Maximum Detectable Velocity Range; PWD= 20cm or better CWD= 21.5cm or better Doppler Beam Steering On Line 3-Ports for Trans-thoracic Probes. Doppler Beam Steering and Bi-Directional Stereo Audio. Color Doppler Both CW & PW Doppler Must Be Continuously Steerable In Color Blood Flow Imaging Mode in Real Time Colorized Spectrum Display. Tissue Harmonic Imaging With Two Frequencies 2D Image With Color Flow Power Doppler Auto Image Optimization/Quick Scan for Single Button Optimization Of All Scanning Parameters Including STC Overall Gain And Doppler Spectrum. Compound Scanning Using Frequency As Well As Spatial Compounding. Trapezoid Imaging for Linear Probes. Measurement Package: To Provide Comprehensive Software Package For Measurement Of Distance Circumference, Area, Time, Depth etc. And Separate Software For, Cardiovascular Including Venous Doppler Study, IMT (Intima Medial Thickness) System Complete With Following Facilities and Accessories: Medical grad 19-Inches or better Color Monitor. ECG Including Cables and Transducers/Electrodes. **Standard Probes** 2-4MHz Or More Multi-frequency Sector Probe For Adult.(Model must be mentioned) 5.0 MHz Sector Probe for Paeds. (Model must be mentioned) STD Recording Devices Built-In CD/DVD Recorder For Digital Image Storage Built-In / Separate Compatible Imported Ups (Minimum Backup Time > 10Minutes B/W Thermal Printer. (Model/make must be mentioned) Optional: T. Probe (Trans Esophageal probe) for adults and child/peads.(model must be mentioned) Frequency range: 2.3 - 7.2 MHz 5 Defibrillator Semi-automatic maximum 270 joules biphasic defibrillator with monitor and AED mode. Synchronized output with ECG. Control of energy charging/ delivering on main panel &apex paddle. Charging Indicators. The energy range should be adjustable for Paedsand adults up to 270Joules. Charging Time for full energy will be less than 10sec.

		 Screen Size of approx.5 inch or better colored. Display of HR, ECG through paddles and Lead I.II &III patient cable. Built in recorder for printing of full summery on standard paper. Alarms for High and low Heart rate, low battery warning. AC 220V / 50 Hz operated. Built-in Rechargeable battery with charger for at least 50 shocks at max. Energy. Auto tester/self-check. External pediatric and adults Paddles, ECG cable with reusable electrodes for adult & peads. AED facility. Optional: Pace maker facility. 	
6	ECG Machine 12 channels (for DHQ level Hospitals)	 Simultaneous acquisition of 12 channels, and 5" or more LCD display. Inbuilt thermal recorder for printing out 12 channels simultaneously. ECG Interpretation Software with 200 or better findings for complete ECG Analysis reports with measurement data table should be provided. Must be able to indicate at least four critical values that require immediate clinical attention. AC as well battery operated. Complete with Patient Cable, Reusable Electrodes Set, ECG Rolls 20 Nos, Gel 5 litres and Standard Accessories with each unit. 	
7	ECG Machine 3 channels (for Category C or lower level Hospitals)	 03 channels ECG Machine Should be portable and lightweight. Voltage 220 volts, 50hz Display 5" or more Simultaneous 12 leads acquisition Must have continuous display of patient heart Must have integrated pediatric analysis. Up to 600 interpretive statements Must be able to indicate at least four critical values that require immediate clinical attention. Printer: High Resolution and in built thermal array printer. Battery Capacity: Must be 4 hours without printing. Complete with Patient Cable. Reusable Electrodes Set. ECG Rolls 20 Nos. Gel 5 liters and Standard Accessories with each unit. 	
8	Infusion pump	 With electrically operated pump. Power requirements: 220v; 50Hz Infusion rates 1 to 999ml/hr. Volume accuracy over range of infusion rates. Volume infusion switch. Facility with reduction to keep vein open. Volume infused display. Full alarm system. Air in line detection. Occlusion detection capability. Vertical stand mobile type Built in battery backup: 1 hour or better With all accessories. 	
9	Pulse Oximeter	 Sensors: Finger clip with probe for neonatal, Paeds & adult All sensors pre calibrated and interchangeable Range: O2 saturation 45 -100% Pulse rate 20 - 300bpm Display: Pulse waveform, SPO2 short trend and pulse rate and O2 Saturation Resolution: O2 saturation 1% Accuracy: O2 saturation 80-100% ±2% Pulse rate ±1% ±1digit Built in battery backup: 1 hour or better 	

10	ICU Ventilator	Ventilator, electrically operated microprocessor controlled, time cycles, volume, pressure limited, suitable for adult/Paeds/Neonate use. Tidal Volume: 5 ~ 2000 or better on either side. Frequency: 4 ~ 150b/min or better on either side. Inspiratory relief pressure with audible alarm: 20 ~ 80cm H2O Patient Circuit: Autoclavable/ dis infectable: for adult, Peads & peads Demand flow Tube supplied with rail &pole clamp Patient circuit hose Expiration pressure in dilator. Probe gas inlet. O2 and Air input hoses Monitoring of FiO2/IV/Exp. Minute volume,RR, Pressure Ratio, PIP, PEEP, BiPAP, APRV, and BPRV, bi-level ventilation, capnometry, VTPC PEEP: 0 ~ 30cmH2O FiO2 21 ~ 100% Pressure support mode Built-in Battery Backup, one hour or more. TFT / LCD Monitor Size: 15" or better Loops and waveform display. Should operate on O2 or Air Alarms for Gas failure, RR, Pressure, Apnea, Volume, Low Battery Humidifier (Band, Make and model must be mentioned) Turbine With turbine/air Compressor (Built-in) Nebulizer Facility (Built-in)
		Full Loaded backup Compressor upto 90 mins.
11	Humidifier	 Adjustable exit steam Moisture sensors for adjusting required moisture. Transparent water container. Easy to clean thermo steam maker parts. Applicable to create desirable atmosphere for children. Built-in circuit breaker to be operated in time of dry up. Must have cool body all through the operation. Should have thermo steamer element with Teflon resistant coating. Easy cleaning.
12	Ripple mattress	 Alternating pressure mattress with support area of 1720mmX 860mm or more. To contain 14 or more air cells with variable geometric section. The material to contain an anti-bacterial agent. To have a reinforced base sheet membrane with removable cells and protective cover. Within built compression pumps having equalizing device to prevent over inflation. Cycle time to be 10 minutes. To have a low-pressure indicator. To be supplied with a case having handles for easy storage. With five spare cells.
13	24 Hour BP Monitoring machine	 The system should have Solid State light weight 02 No's Digital Recorders. Two Cuffs Artifact subtraction With USB port. Analyzer with Auto analysis Facility Complete with software Compatible with PC to get analysis on printer.
14	Nebulizer	 Aerosol with piston Electro compressor. Nebulizing rate: 0.35 ml/minute or better Compressor Pressure 40 psi or better. Compressor air flow: 10lit/min or more. Noise Level: 60db or less. Granule-metric size of medication: 1-10 microns by means of multi PIPSER Component.

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15	ICU Trolley	 Emergency Crash Cart, unit to be supplied completely equipped With stainless steel top, 630 x 445mm or better. 25mm or better dished. Lift-up laminated work flap Approx. 305mm x 455mms or better. Three or more drawers with Lower cup board with central locking/ securing all drawers and cupboard. Double hook Stainless steel I.V Pole. Double push handle. Low level plastic bumper bar. Quality castors 04 No's (2 with braking) 2x stainless steel cylinder holders for D or E size cylinders. With Cardiac board 600 x 400 x 55mm or better. With stainless steel housing brackets at rear of trolley. Universal rail system fitted on top of trolley. Aneroid sphygmomanometer with adult Velcro cuff,rail clamp Electronic timer. Rail clamp Venturi suction unit with 02 litters jar and Suction tube. Connecting tubing for 0- 15 rpm O2 flow meter fitted to O2 venturi outlet Pin Index. Regulator with outlet for connection to remote venturi hose and O2 outlet. Intubation set comprising of:- 1. Macintosh Laryngoscope with 3 blades. 2. Magill introducing forceps. 3. Adult resuscitator-set disposable. 4. Endo tracheal tubes Set 05 No's 5. Guedel airways for adult and peads 03 No's. 6. Pen torch-artery forceps 02 No's. 7. Dressing scissors 02 No's. 8. Examination light to rail clamp. 	
16	Transport Ventilator	7. Dressing scissors 02 No's.	
17	Oxygen Concentrator	 Micro Processor controlled. Oxygen Flow Range: 0 to 5 litter per Minute Noise level (<45dbA). With filter. With OPI (oxygen purity indicator) & Alarm at very low oxygen level. Audio visual alarm for: Power loss, Low pressure, air leak, hardware failure, Mechanical Failure, Overheating and High Pressure. Oxygen Percentage level: 1-3 Ltr per Minute 93%±3% 4 Ltr per Minute 95%±3% 5 Ltr per Minute 95%±3% 	

18 ETT Machine **Specification** PC based computerized stress test machine with window based software 12-Channel Stress Test with recording, presentation and Evaluation of ECG. Manual and automatic event memory ST-Trend and ST-Level display of all 12 channels. Display of blood pressure, heart rate and arrhythmia. QRS-Complex show in a superimposed mode. Review function at any time during exercise Standard or individual protocols. Automatic control of treadmills in speed and elevation in load **QRS-Analysis:** Analysis of the stress Test with control of histograms. ST level and Trend histograms of all leads. Display of QRS complex Manual ECG with time curser. With built-in calipers for measurement control ECG analysis during exercise **Resting software:** Resting ECG software 12 Leads simultaneous Data management software Rhythm recording in resting mode OT desperation software Interpretation Treadmill(Medical Grade) Heavy duty whispers quiet even at high speed Speed :0 - 16.0 km/h or better Speed tolerance: < 5 % Elevation: 0 $^{\circ}$ to 22 $^{\circ}$ AC 220V / 50Hz Patient weight :170 kg, or better Emergency stop button Side and front rail, computer system: Branded computer system compatible with Unit. 19 inch TFT monitor with resolution of 1024x1024. Alphanumeric key board and mouse. CPU Intel Core i7, Processor 8Mb cache 3.40GHz

16GB RAM DDR3 1TB internal Hard Disk 8GB graphic card DVD R/W

ECG Amplifier Patient cable

Trolley (Imported)

Laser printer(Brand must be mentioned)

UPS for at least 30 minutes for computer system(Brand must be mentioned)

COMPONENTS:

Category: Medical Items

Selection will be subject to Sample

S#	Nomenclature	Specifications	Qty
1	Adult Weighing Scale	 Scale to have low level platform finished with non-slip cover, measuring Dail to be fitted at waist hight steel yard arm. Capacity: -0 kg -200kg or better. Fitted with imperial and metric height measuring rod. 	
2	Baby Weighing Scale	 Scales to be highly accurate and stable. Touch controls with splash proof key board. The baby weighing pan to removable. Automatic hold, slow and tare controls. Capacity: 0 kg to 30kg or better. 	
3	BP Apparatus with Stand	 Constructed from shatter resistant materials fully protected plastic manometer tube with clear reading scale, range 0 to 300 mm Hg. Integral mercury reservoir. Spring coil tube with bulb. (Pump). Pediatric and adult cloth cuff with Velcro fastening cuff holder. Unit mounted on stable 4 to 5 castor mild steel base. 	
4	BP Apparatus with Pediatric Cuffs	 Constructed from shatter resistant materials fully protected plastic manometer tube with clear reading scale, range 0 to 300 mmHg. Integral mercury reservoir. Spring coil tube with bulb. (Pump). Cloth cuff for adult. Children and neonates. With Velcro fastening cuff holder. 	
5	BP Set Mercury Desk Top	 Sphygmomanometer in lightweight case. Recessed plastic manometer tube range 0-300mm Hg with shatter proof reservoir. Velcro fastening cuff for adult, pediatric and infant. Provision for storage for bulb, valve tubing and cuffs. 	
6	BP Set Wall Mounted	 Sphygmomanometer Mercurial Wall Mounted Sphygmomanometer constructed from shatter proof materials Fully protected plastic manometer with clear reading scale, range 0-300mmHg to be mounted on wall. Integral mercury reservoir, spring coil tube, bulb, valve, Velcro fastening cuff adult & Pediatric. 	
7	Diagnostic Set Paeds	 Pediatric diagnostic set, comprising auroscope head with 3 standard specula & nasal speculum. With ophthalmoscope head. Laryngeal stem to take tongue depressor. Laryngeal or post nasal mirror, Antrum sheath. Large handle and two spare lamps. All to be supplied complete with plastic covered case. Ear Syringe for cleaning of ear 	
8	Ear Syringe	 Stainless steel made Capacity: 10 ml or more. 	
9	ENT Diagnostic Set (Adult)	 Auroscope head with 3 standard specula. Nasal speculum, Laryngeal stem to take tongue depressor, Laryngeal or post nasal mirror Antrum sheath. Large handle and two spare lamps. All to be supplied complete in plastic covered case. 	
10	Glucometer	 Glucose monitor, battery operated, hand held, complete with case, Lancet holder with lancets and glucose monitoring strips. 	

		The supplier to ensure the availability of strips. The supplier to ensure the availability of strips.	
11	Otoscope Rechargeable	 To be supplied with 200 strips. Diagnostic Set Battery Handle with chargeable batteries Charging holder with the transformer Otoscope head with halogen bulb One each reusable ear speculum sizes: 2, 3, 4 and5mm Five each disposable ear specula 2.5 and 4.0mm One magnifying glass for operation With spare bulb 	
12	Peak Flow Meter	 Performance Date Accuracy: ±10% or 20 L/min whichever is greater. Repeatability: < 5% or 10 L/m whichever is greater. Inter device Variability: <10% or 20 L/min whichever is greater. Materials Main Body: Impact-resistant ABS plastic Cover and Handle: High-density poly propylene. Scale: Hot-stamped, alcohol resistant. Full measurement Range: 50 to 810 L/min or better. With increament:10L/min to 50L/min. 	
13	Stethoscope	 Light weight aluminum adult chest piece construction. Adjustable chrome binaural Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips. 	
14	Stethoscope Nursery	 Light weight aluminum Pediatric chest piece construction. Adjustable chrome binaural, Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips. 	
15	Ambo bag Paeds	 Silicon Resuscitation Bag with infant / child face mask sizes 00, 0, 1, 2 & airway size 0, 1, 2 with E2 valve and fully autoclavable. The resuscitator to meet with all requirements lay down by international standards. Reservoir Bag volume approx. 600ml. Oxygen Reservoir Volume approx. 2500ml for adult and child Tidal maximum volume: approx. 200ml for infant Unit to operate in all climatic conditions and not to be dependent upon a power supply. To be able to connect to an oxygen supply up to100%. The resuscitator must be able to ventilate through a mask and/or endo tracheal tube. Re-usable and must be autoclavable 	
16	Ambo bag(Adult)	 Silicon Resuscitation Bag with adult face mask sizes 3, 4, 5 & Airway size 3, 4, 5 with E2 valve and fully autoclavable. Reservoir Bag volume 2Literor more. Oxygen Reservoir Volume approximately 2500 ml for adult. Tidal maximum volume: approximately 1000ml for adult. Resuscitation bag to be manually operable and able to be connected to an oxygen source up to 100% for ventilation through a mask or an endotracheal tube. To be able to connect to an oxygen source up to 100%. Unit to be supplied with a carrying case. Re-usable and must be autoclavable 	
17	Manual Suction Apparatus for ICU	 Foot operated suction machine with heavy duty piston. Pressure gage, Suction Jar 1000ml with pipe 2 meters long and suction nozzle. 	
18	Baby Resuscitation Apparatus	Complete kit in a carry bag including: Infant Resuscitator: - • Silicon Resuscitation Bag with infant face mask sizes 00 & 01 with non-rebreathing valve with 40cm of H2O pressure release	

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Working Length 150-300mm or better		adult & child		
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Working Distance 20mm or better				
Light Guide Bundle Length 1640mm or better				
With Compatible Light Source from the same manufacturer			With Compatible Light Source from the same manufacturer	

Category: Medical Furniture

Selection will be Subject to Sample

<u>Note</u>: The structure of all the items included in the category of medical furniture shall be seamless, smooth and free from cavities, in order to avoid hideouts/safe areas for germs/infectious agents. And shall be serializable for prevention and control of infections. All the corners shall be round and the joints shall be made smooth.

S #	Name of item	Specification	
1.	Bed side steel stairs	Fully chrome plated frame, made of hollow pipe diameter 1" Shaped for two steps. Front and rear legs provided with steel bars. Wooden step duly covered with rubber mat and sides dressed with aluminum/strip.	
2.	Bed with side Table, over bed trolley and side rallings	 Bed: Over all dimension (LxWxH) 195cmx 85cmx 55cm Four section beds with all welded enameled main frame constructed from rectangular section steel tube of 16SWG steel sheets. Adjustable back rest and leg section by means of two independent cranks with square threads pitch revolving in steel nuts by means of rectangular handle. Removable bed ends fitted with 10mm laminated plastic panels. Platform fitted with epoxy painted steel bars of 18 SWG steel. The bed is mounted on double ball bearing, swivel castors of non- tin and weather proof rubber. Two fixed at head end and two swiveling with independent breaks at foot end. Rubber bumpers at all four corners Four Mattress holders (2 at each side) With I V pole. Structure of the platform shall be smooth and seamless. Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth. All the joints shall be made smooth. Bed side Locker: Overall size of locker 40cm width, 40cm depth, 80 cm height. Made up of M.S sheet 18 SWG. Top made of CP galvanized steel sheet, One drawer. One cabinet with space between the drawer and cabinet. Base made of 1" round/square pipe. FINISH: Polyester powder coated finishing OVER BED TABLE: Top made of melamine sheet. Height adjustable approx. 750mm to 1100 mm Height may be raised or lowered by lifting release bar under the table top by hydraulic mechanism or spring. Mobile on four castors. Side Ralling: Adjustable length allows for use at bed rail to prevent falling out of bed. Collapsible in 2 steps, Height of Rail 18" (high from the base of mattress) 	
3.	Bed side table	Specifications mentioned above in S No. 02	
4.	Beds with side table & over bed trolley for recovery room	Specifications mentioned above in S No. 02	
5.	Drip stand	 Heavy Weight base mobile on 50 mm dia castors Powder coated base and column with telescope adjustment. 4 ports I/V rod of wire diameter0.5 mm. 	
6.	Couch for Ultrasound / Examination couch	 Frame to be one piece welded mild steel powder coated. Headrest to have step less angle adjustment from horizontal to 75° 2" Mattress of 2.5 lbs/cft density with water proof sterilize able cover. Paper roll holder to be fitted at head end and suitable for paper rolls up to 510mm wide. Size Approx. 2000mm x 500mm with standard height. 	

7.	Gynae examination couch	 Couch top made in 3 sections. Leg section removable. Backrest adjustable with friction clutch With hand grips on both the sides. Cushioned with Rexene and foam mattress. Sliding stainless steel receptacle mounted under the hip area, Complete with pair of Lithotomy poles and tying strips.
8.	Instrument trolley	 Frame constructed of stainless steel hollow pipe, Complete with two Stainless steel trays having open space between it. Both trays provided with reinforcement as side guards for safety. Mobile on 50mm dia, twin wheels. Size(60x90)cm
9.	Patient Trolley	 Single crank, Rubber bumper guards on all sides, Mobile on 23 cm dia rubber castors, Removable tarpaulin / Rexene stretched detachable stretcher. Provided with oxygen cylinder holder, Utility tray I.V pole. Safety side guards with revolving latch for up & down adjustment. Overall Size: length 5 ft 4", width: 2 ft, adjustable height: maximum 2 ft 6".
10.	Railing for beds	 Adjustable length allows for use at bed rail to prevent falling out of bed. Collapsible in 2 steps, Height of Rail 18" (high from the base of mattress)
11.	Wheel Chair	 Folding Wheel Chair, Detachable Desk Armrests, Swinging Detachable Elevating (Adjustable height) leg rests. Footsteps made of Aluminum. With Safety belt. Seat width 38 x 43cm, Made of high quality leather to withstand human load

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12	Orthopedic Traction Bed	Head & Foot Panels: Elegant High Size:2030×900×530mm(LXWXH) or better Functions: Two Functions Movements & Controls: Back Lifting: Manual Quality Molded Panels Top: Four Sections Framework: Stainless Steel Panels Stainless Steel Balkan Beam Frame & Pulley Attachment and Patient Support Lifting Pole Head & Foot Panels: Elegant High Color: Powder Coated Bed: Over all dimension (LXWXH) 195cmx 85cmx 55cm Four section beds with all welded enameled main frame constructed from rectangular section steel tube of 16SWG steel sheets. Adjustable back rest and leg section by means of two independent cranks with square threads pitch revolving in high carbon steel nuts by means of rectangular handle. Removable bed ends fitted with 10mm laminated plastic panels. Platform fitted with epoxy painted steel bars of 18 SWG steel. The bed is mounted on double ball bearing, swivel castors of non- tin and weather proof rubber. Two fixed at head end and two swiveling with in dependent breaks at foot end. Rubber bumpers at all four corners Four Mattress holders (2 at each side) With 1 V pole. Structure of the platform shall be smooth and seamless. Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth. All the joints shall be made smooth With quality molded panels. Stainless steel Balkan beam. With frame and pully attachment With patient support lifting polls Complete with all orthopedic attachments and accessories. Side Ralling: Adjustable length allows for use at bed rail to prevent falling out of bed. Collapsible in 2 steps, Height of Rail 18" (high from the base of mattress)
13	Dissection Table	 Dissection Table FEATURE Work surface with a high, profiled surround and a seamlessly welded basin. Table top equipped with sound-proofing and features a negative inclination arranged diagonally to the drain. Sub structure consists of rugged, torsion-resistant stainless steel profiles with adjustable feet's. TECHNICALSPECFICATIONS: Structure: Completely in stainless steel Overall Length: 87 " Overall Width: 36" Overall Height: 36" Basin L/W/D(inch): 79 x 28 x 12 Table carrying capacity: max. 200kg Accessories Hydro aspirator Stainless steel neck support.
14	Dressing Trolley	 Constructed from stainless hollow pipe of 1 inch With two shelves made of stainless steel, on top and bottom with side guards. Two stainless steel drawers under the top shelf. Stainless steel bucket and bowl with holders. Mobile on 100mm dia rubber castors.

	T		
		 Push handle for easy movement. Size: (70 cm L*50 cm W *90 cm H) 	
15	Eclampsia Bed with Side Ralling	Hydraulic Hospital Bed suitable for use in intensive / coronary care units. Feature: Adult Intensive Care bed with head and foot panels	
		Height adjustment with foot pedals.	
		Trendelenburg / anti-Trendelenburg position.	
		 Radiolucent back rest, gas spring assisted movements with a special lever to lock the platform of any position, facilitates use of the C Arm imaging. Usable X-Ray area L 27" x W29" with x-ray cassette holder. 	
		 Osable A-Ray area L 27 x w 29 with x-ray cassette notice? Back plate and knee rise by gas shock mechanism to make a fowler position. 5" castors, foot operated bow brake, locks three castors and provides easy steering. 	
		Two mattress holders on each side.	
		Mattress with raxine covers to be provided according to the bed size. Structure of the plotform shall be arread and according.	
		 Structure of the platform shall be smooth and seamless. Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth. 	
		Size: L 200 cm * W 91cm* H (adjustable) 40 to 45cm. Accessories:	
		Bed fitted patient lifting pole.	
		 I.V Rod To be provided with CPR board. 	
		Side Ralling: Adjustable length allows for use at bed rail to prevent falling out of bed. Collapsible in 2 steps, Height of Rail 18" (high from the base of mattress).	
16	Steel Almirah for Medicines	 18 gauge steel, powder coated With 5 shelves. 	
		• Size 4ft x 6ft x 2ft (WxHxD)	
		Sample to be approved.	
17	OPD chairs S.S	3 seater chairs (Steel) fixed / removable	
		• Fitted on steel structure of section 40mm x 60mm.	
		with seating area approximately 51 Cm X 50 cm	
		With silver enameled finished. The structure was beautiful to be fixed on the flags (well-such).	
		 The structure may be able to be fixed on the floor / replaceable. Branded, Good Quality 	
18	Revolving steel stool	Stool with 16 SWG stainless steel structure and seat of diameter 300mm.	
	The volving steel stool	Height adjustable by simple spun mechanism.	
		Height adjustment not less than 53cm to 68cm.	
19	Surgeon revolving steel stool	 Stool with 16 SWG stainless steel structure and seat of diameter 300mm. Height adjustable by simple spun mechanism. Height adjustment not less than 53cm to 68cm. 	
		Mobile on 4 castors.	
20	Folding Screens	Frame in four parts constructed from fully plastic coated M.S. hollow tubular	
		 pipe 1" dia. All frames fixed together with ABS universal joints for easy movement of each part. 	
		Curtains fitted with spring loaded rods, mahile on rive sectors of 75 mm die	
		 mobile on six, castors of 75 mm dia., Curtain of wash and wear polyester cloth/ plastic cloth in variety of colors. 	
21	Steel file racks	• 18 SWG filing rack powder coated,	
		With three shelves, all lockable and with handles.	
		• size 400mmx750mmx 1400mm(WxDxH)	

22 Dry Clea	an Trolley • • •	Best quality, good material, Size: structure made of hollow pipe 1" dia Mobile on 4 castors with detachable bag of parachable cloth Size: 2.5 feet L * 2 feet W * 2.5 feet depth.	
Baby Co	•	Powder coated mild steel 18 SWG tubular frames. Lying area made of rectangular hollow pipe frame with wire mesh. Mobile on 50 mm dia. Rubber castors. Safety sides can be adjustable up & down easily. Standard cushioned Rexene foam mattress with3 inch thickness. Laying area 55 cm x 100cm.	
24 Cardiac ICU Bed Trendenl With Sid	Bed /	Height Adjustment: By foot pump 40-47cms hydraulically operated. Trendenburg: Leg Up= 30°, Leg Down= 20°, controlled by Bloc lift n spring with step less movement at the bed end. Castors: 5" ball bearing rust proof, waterproof, high quality electrically conductive wheel castors with central brake system. Back plate and knee rise by gas shock mechanism to make a fowler position. Vascular position by means of lever or comb mechanism. Bedding area is radio translucent material for doing X-ray and to apply C-Arm. Base and back rest is designed to accommodate "C" arm in case of emergency, For cardiac catheterization and other procedures so the central area of back rest is free of any metal part for "C" Arm radiology. Have cardiac chair position, Head and foot bows are detachable in case of emergency for doing intubations and CPR. Dimension: 200cm x 91cm, Height: 40-75cm adjustable Main Frame: 1" x 2", 16SWG pipe round at all corners with invisible joints. Base Frame; Frame made of 1½" x 3" M.S. pipe, 16SWG. Finish: Polyester powder coating finish after treating with de-rusting &phosphating chemical. I.V. Rod: 4 prongs revolving height adjustable having I.V ports on the sides of the bed. Four reflecting rubber bumpers. Urine bag holder and N.G bag holder hocks. Basket for urine port Basket for Bed pan Patient lifting pole on both sides with triangular grip. Mattress; Foam 4" Thick, with Length & Width according to the Bed, with Rexene cover. Structure of the platform shall be smooth and seamless. Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth Side Ralling Adjustable length allows for use at bed rail to prevent falling out of bed. Collapsible in 2 steps, Height of Rail 18" (high from the base of mattress).	

Category: Anesthesia Equipment

Anesthesia Machine with two vaporizers Anesthesia unit with 2 Vaporizers and inbult ventilator Unit shall be comprised of the following components. Non interchangeable pipeline inlets. Pipeline and cythinder ganges for 02 and N2O. N2O cut off device in case of O2 and N2O. N2O cut off device in case of O2 failure. O2 failure adrm. Gas out let and 02 flush control. Lockable casters. Monitor shelf. Barassembly for mounting of at least 2 vaporizers. Impact resistant and easy to clean frame. Cleanable works surface. Absorber support arm. Three gas flow meter unit. O2, N2O and Air (4-bar) hoses. Isoflovane and Sevolforane vaporizer (models of the vaporizers must be mentioned). One or ormer drawers unit power outlets with 4 or more sockets. Auxiliary O2 outlet. Writing shelf/plateform. Co2 absorber 1.2 Kg complete with valve for bag/ventilator, manometer, 3 liter breathing hag, breathing tube, mouth and Y piece. Additional breathing bose and connector shall be supplied. Ventilator: Ventilator is be inbuilt with the anesthesia unit. Ventilator to be complete with manometer display. The ventilator shall be capable of ventilating pediatric patients. The ventilator (IPPV/Mode) Pressure controlled mode. Con Off switch. Brataling mode selection. (Standby/Volume/Spontaneous and pressure). Britil in monitor 8° or better color screen to display all the mentioned parameters. Imwerse 1: Bratio Capability. Gas specific input connectors (Air/Oxygen ISO) Tidal Volume from 20 ml to 1500ml or better on either side Ref ratio from 1:03 to 1:6.0 or better on either side Ref ratio from 1:03 to 1:6.0 or better on either side Ref ratio from 1:03 to 1:6.0 or better on either side Ref ratio from 1:03 to 1:6.0 or better on either side Spontaneous Mode monitoring (Active Volume Monitoring with pressure alarm) Impiratory pressure limits from 10 to 70cmH2O. Adult bellows graduated from approximately 20ml to 1500ml. ACHSS/(Anesthesia gas as exameging system). Battery backup (60 minutes or more). Audio Visual Alarm for the following: Alarm mut	Qty
Non interchangeable pipeline inlets. Pipeline and cylinder gauges for O2 and N2O. Pin index cylinder yolks for one or more cylinders of O2 and N2O. N2O cut off device in case of O2failure. O2 failure alarm. Gas out let and O2 flush control. Lockable casters. Monitor shelf. Bar assembly for mounting of at least 2vaporizers. Impact resistant and easy to clean frame. Cleanable works surface. Absorber support arm. Three gas flow meter unit. O2, N2O and Air (4-bar) hoses. Isoflorane and Sevollorane vaporizer (models of the vaporizers must be mentioned). One or more drawers unit power outlets with 4 or more sockets. Auxiliary O2 outlet. Writing shelf/plateform. Co2 absorber 1-2 Rg complete with valve for bag/ventilator, manometer, 3 liter breathing bag, breathing tube, mouth and Y piece. Additional breathing hose and connector shall be supplied. Ventilator: Ventilator: Ventilator must be inbuilt with the anesthesia unit. Ventilator to be complete with manometer display. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric patients. The ventilator shall be capable of ventilating pediatric members. Volume preset time cycled ventilator (IPPV/Mode) Pressure controlled mode. Electronic Microprocessor controlled. On/Off switch. Bratathing mode selection. (Standby/Volume/Spontaneous and pressure). Built in monitor 8° or better co either side Electronic Microprocessor controlled. Pressure controlled mode in the parameters. In werse I: E Ratio Capablity. Gas specific input connectors (Air/Oxyge	
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 Low Pressure(PEEP Referenced) Incorrect rate or Ratio Mains failure. Low Battery. 	
 Incorrect rate or Ratio Mains failure. Low Battery. 	
Mains failure.Low Battery.	
Low Battery.	
 Ventilator inoperative. The ventilator shall be supplied complete with drive hose, cylinder connector and 	
power cable.	

•	The following RE-USABLE AND A with the unit.	UTOCLAVABLE accessories shall be supplied	
	Reusable Magill circuit	2 No's	
•	Disposable Bain Circuit	20 Nos.	
	Reusable Pediatric Breathing system	2. No's	
	Re-breathing bag 0.51	2. No's	
•	Re- breathing bag 1L	2. No's	
	Re-breathing bag 2L	2. No's	
•	Forceps Magill adult	1.Nos	
•	Forceps Magill Child	1 No's	

<u>Category: Anesthesia Supplies</u> <u>Selection will be subject to Sample & Manufacturers mark must be present on each Item</u>

S#	Nomenclature	Specifications	Qty
1	Baby Anesthesia Set	Complete accessories anesthesia set for children 1. IV Canola's different sizes	
		2. Facemasks different sizes re-usable	
		3. Airways different sizes re-usable	
		4. Pediatric circuit re-usable	
		5. Ambobag	
		Reusable and good quality circuit, imported.	
2	Bain Circuit	Manufactured from clear, non-toxic implantation tested autoclavable PVC	
	Endo-tracheal Tubes	• Endo-Tracheal Tubes, Reusable (Sterile)	
3		• Each set have Sizes; 2Fr,2.5Fr,3Fr,3.5Fr,4Fr,4.5Fr,5Fr,5.5Fr,6Fr,6.5Fr,7Fr,7.5Fr,8Fr	
		Manufactured from clear, non-toxic implantation tested autoclavable PVC.	
		Integra/nylon bite block	
		Imported	
		Each set have Sizes; Large, medium &small	
4	Face Masks all sizes	Manufactured from clear, non-toxic implantation tested autoclavable	
	set (Small, Medium	PVC.	
	& Large sizes)	Integra/nylon bite block	
		Imported	
_	1 1 5	Each set have Sizes; Large, medium &small	
5	Laryngeal Face	Manufactured from clear, non-toxic implantation tested autoclavable	
	Masks (Small, Medium & Large	PVC. • Integra/nylon bite block	
	sizes)	• Imported	
		Airways Reusable (Non Sterile)	
6	Air Ways	Each set have Sizes; Large, medium &small	
	(Small, Medium &	Manufactured from clear, non-toxic implantation tested autoclavable	
	Large sizes)	PVC.	
		Integra/nylon bite block	
		 Imported Reusable and good quality circuit, Imported. 	
7	Pediatric Circuit	 Reusable and good quarty circuit, imported. Manufactured from clear, non-toxic implantation tested autoclavable PVC 	
		Each set have Sizes; Large, medium &small	
8	Randall Baker Face	Manufactured from clear, non-toxic implantation tested autoclavable	
	Mask all sizes set	PVC.	
		Integra/nylon bite block	
	Sam Circuit	• Imported	
9	(Small, Medium &	Reusable and good quality circuit, imported. Manufactured from allowed a special implementation to the last allowed by PVC.	
	Large sizes)	Manufactured from clear, non-toxic implantation tested autoclavable PVC	
10	G. I. A. I. I.	Reusable, autoclavable and good quality, imported	
10	Stylets Adult	Nylon hard plastic PVC, different sizes (3, 4, 5,6 & 7)	
11	Stylets Paeds	• Reusable, autoclavable and good quality, imported	
11	Stylets Facus	• Nylon hard plastic PVC, different sizes (3, 4, 5,6 & 7)	

Category: Operation Theatre Equipment

S#	Nomenclature	Specifications	Qty
1	Electric surgical unit Diathermy	Electro surgical unit 400 watts with the following functions PURE CUT, BLEND(1),BLEND(2),BLEND(3) COAG1 (spray), COAG2 (contact) and AUTO BIPOLAR, FOOT SWITCH BIPOLAR. Microprocessor controlled. Percentage output digital display shows on front panel. Automatic bipolar output without using footswitch Multi monopolar outlets, two hand control outlets and one Laparoscope outlet. Hand or foot operated. With bipolar output power profile to provide good resolution to permit small changes in power levels for delicate work. Spray Coagulation for the Trans Urethral Resection (T. U. R) and Endoscopic procedures in urology. Adaptive REM Monitoring: With REM facility Alarm enables in case of monopolar output disables. Technical Specifications: Output Power PURECUT 400W at500Ω BLEND1 270W at500Ω BLEND2 200W at500Ω BLEND3 160Wat500ΩCONTACT COAG 120Wat 500Ω SPRAYCOAG 70W at 500Ω SPRAYCOAG at100Ω Operating Frequency: 400KHZ±10% Input Voltage: 220V, 50Hz Enclosure Leakage Current Pulse Repetition Trud or less Earth Leakage Current Pulse Repetition Frequency: 32KHz ±10% Standard Accessories Patient Leakage Current Pulse Repetition Frequency: 32KHz ±10% Standard Accessories Footswitch 1 pedal with cable Disposable Foots witching pencil with cable Disposable Foot switching pencil with cable Disposable Foot switching pencil with cable Disposable Epolar forceps and Cable asset Reusable Bipolar forceps and Cable asset Reusable Bipolar forceps and Cable asset Reusable patient plate with cable or adult Set of electrodes (6Pieces) for reusable and disposable handle	
2	Emergency light with single reflector AC/DC Or Examination light AC/DC	 LED light source Light intensity 50,000 lux at 0.5meters LED life of 40,000 hours or more Color Correction to 4300degKelvin With intensity light control Mechanical: Multi flex arm with ultimate flexibility of positioning the lamp head. Electrical Supply: 220 volt 50Hz, Reversible overload and short circuit protection Backup power system with rechargeable branded dry battery(s) from the same manufacturer with backup time at least 05 hours 	

4	Portable lamps AC/DC or Emergency light AC/DC	General Design Stable base construction with four castors for easy movement. Manual base brake, lateral tilt and Trendelenburg adjusted by hand crank, base cover, side rails, accessories & clamps made of stainless steel. Tabletop Divided into 5 sections including head plate, back plate, seat plate and split leg plates. Table top elevation controlled by hydraulic system, with sliding table top 30 cm or more for unrestricted image intensifier access, with side rails for the insertion of X-Ray cassettes (table top made of acrylic sheet plates for X-ray radiography). Length 190-200cm or better Width 50cm or better Height 75-95 cm or better Height 75-95 cm or better Head plate up/down +40°/-40° Standard Accessories: Mattress set, Pair of arm rest with quick dis-connectable clamps. Adjustable head rest. Pair of shoulder supports. Lithotomy pole with universal swivel clamps. Anesthesia frame 1 Nos Infusion rod 1Nos Foot rests = 2 Nos. Side supports 2 Nos With inbuilt Kidney Elevator Facility. Operating Light with:- Single domes Fine focusing On Balance mobile Stand LED light source Light intensity 1, 30,000 lux or more at 1meter. LED light source Light intensity light control Multi flex arm with ultimate flexibility of positioning the lamp head. Electrical Supply: 220 volt 50Hz,
		 Reversible overload and short circuit protection Inbuilt Backup power system with rechargeable branded dry batteries
		with backup time at least 05 hours
5	Resuscitation Trolley	 Over all dimension 2.5'(L) x 2'(W)x3' H or better Electro-galvanized steel sheet structure, Epoxy powdered coated, finish rounded, edges washable and can bed is infected. Height adjustable IV Holder rod. Shelf for defibrillator/ECG can rotatable with locking facility. Sizes 1.5'x1.5' or more, adjustable. Plastic worktop with ¾ inch raised rounded edges. Three or more drawers. Knee operated waste bin with bag holder. Non marking rubber corner bumpers. 4 x 125m or better antistatic no skidded casters with 2 brakes. Oxygen bottle support with fastening belts. ABS Catheter tubes holder. Surgical aspirator support. Stainless steel bracket on back side for mounting oxygen cylinder. Oxygen cylinder small size with regulator &flow meter. 04 Nos Electrical power outlet and rollup power supply cable.
6	Shadow less lamp (Ceiling type) or	 Operating light ceiling type Input power 220, 50 Hz Dual Dome

Ceiling OT light for minor OT or Ceiling OT light for post- mortem	 LED light source Light intensity: 160,000 Lux at 1m
7 Suction machine Heavy Duty/ Electric suction Machine	 Mobile suction pump Oil-Less Piston along with 4 anti- static wheels with lock. Convenient for operation, with following performance features: Built-in Vacuum gauge with a range from: 0-650 mm Hg or better adjustable. Flow capacity: Not less than 451/min Explosion proof footswitch. Capacity of two graduated suction bottle: 3000cceach Heat resistant and disinfect able rubber tube for suction. Over flow safety device. Power requirement: 220V, 50Hz. Complete with suction nozzle and other standard accessories

Category: Autoclaves / Ovens

S#	Nomenclature	Specifications	Qty
	Autoclave Automatic	 Minimum 5 sterilization cycles for (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed, liquids. It should have silicon rubber ring gasket in the door for locking. The closing and locking of the door should be completely automatic Auto draining facility. An alarm should be provided to ring after the total command is over Auto equalizer of pressure in the chamber for easy opening. Digital temperature and pressure gauges. Control panel to select cycle settings with LCD Display and water level indicator. Capacity app: 100liters Pressure range: 2.5 Bars (121°C) to 3bars(134°C) There should also be a Mechanical Pressure release valve to release excess pressure. System should be operated with a high vacuum pump, integrated printer for printing of the reports. Should be supplied with RO plant (Model and model must be mentioned) to be connected directly to the tap water. Autoclave should execute Vacuum test Bowie & Dick test& Helix Test. It should be supplied with the following accessories:- Tray Stand: 1No Trays: 10No's Bin (with lock): 1No All consumables required for installation and standardization of system to be given free of cost. 	
2	Autoclave Automatic 150 Liters	 Minimum 5 sterilization cycles for (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed. It should have silicon rubber ring gasket in the door for locking. The closing and locking of the door should be completely automatic Auto draining facility. An alarm should be provided to ring after the total command is over Auto equalizer of pressure in the chamber for easy opening. Digital temperature and pressure gauges. Control panel to select cycle settings with LCD Display and water level indicator. Capacity app: 150liters Pressure range: 2.5 bars (121°C) to 3 bars(134°C) There should also be a Mechanical Pressure release valve to release excess pressure. System should be operated with a high vacuum pump, integrated printer for printing of the reports. Should be supplied with RO plant (Model and make must be mentioned) to be connected directly to the tap water. Autoclave should execute Vacuum test Bowie & Dick test& Helix Test. It should be supplied with the following accessories:- Tray Stand: 1No Trays: 10No's Bin (with lock): 1No All consumables required for installation and standardization of system to be given free of cost 	
3	Autoclave Automatic 200 Liter)	 Minimum 5 sterilization cycles for (a) wrapped as well as unwrapped instruments, (b) flash sterilization, and open, packed. It should have silicon rubber ring gasket in the door for locking. The closing and locking of the door should be completely automatic Auto draining facility. An alarm should be provided to ring after the total command is over Auto equalizer of pressure in the chamber for easy opening. Digital temperature and pressure gauges. Control panel to select cycle settings with LCD Display and water level indicator. Capacity app: 200liters Pressure range: 2.5 bar (121°C) to 3 bars (134°C) There should also be a Mechanical Pressure release valve to release excess pressure. System should be operated with a high vacuum pump, integrated printer for printing of the reports. Should be supplied with RO plant (Model and make must be mentioned) to be connected directly to the tap water. Autoclave should execute Vacuum test Bowie & Dick test & Helix Test. It should be supplied with the following accessories:- Tray Stand: 1No Trays: 10No's Bin (with lock): 1No 	

		Along with complete installation.
		All consumables required for installation and standardization of system to be
		given free of cost.
4	Autoclave Horizontal/Vertical type (100 liters)	Single door, high pressure, high vacuum autoclave for sterilizing hospital materials. Electrically operated within built electric steam generator with the unit. System should be operated with a high vacuum pump within the unit.
		 Double jacketed, single door and designed with several automatic mechanical and control features that provide for safety. Door must be lined with silicone rubber gas kits (expansion type). Temperature adjustable from 121oC to 135oC.
		Working pressure range from 2.5 bars to 3 bars.
		Supplied with RO System (make and model must be mentioned)
		• Sterilization cycles:
		• The autoclave residence time should not be less than 60 minutes at working
		temperature (inner chamber) of 121oC at a pressure of 2.5 bars).
		For temperature of inner chamber of 135oC at a of pressure 3 bars the autoclave residence time should be not be less than 45 minutes. Capacity: Approximately, 100 liters.
		 Capacity: Approximately 100 liters. Autoclave should be properly equipped with door safety locks, pressure gauges
		& safety valves for chamber & jacket.
		Autoclave should have insulation jacket. The state of the state
		The unit should have a timer from 1to 60 minutes that may be used for process or turn- on and shut down timings.
		With integral alarms that ring, flash, or otherwise display information when temperature set-points are exceeded or fallen below.
		With Pressure safety valve, over-temperature limiter, door (lid) interlock, over
		pressure limiter.
		 Temperature and pressure gauges with safety valves Air shall be removed from the sterilization chamber after loading the autoclave
		automatically through the automatic control system
		Low water protection with audio visual indicator
		It should be supplied with the following accessories.
		a. Baskets 02Nos
		b. Trays 10Nos
		c. Heating element04Nos
		All infrastructural work including plumbing and electrical work will have to be done by the supplier. The hospital will only provide space and water outlet
5	Autoclave	Single door, high pressure, high vacuum autoclave for sterilizing hospital
	Horizontal/Vertical type (150 liters)	materials. Electrically operated within built electric steam generator with the unit. System should be operated with a high vacuum pump within the unit.
		Double jacketed, single door and designed with several automatic mechanical and control features that provide for safety. Door must be lined with silicone
		rubber gas kits (expansion type). • Temperature adjustable from 1210 to 135oC.
		Working pressure range from 2.5 bars to 3 bars.
		Supplied with RO System (make and model must be mentioned)
		• Sterilization cycles:
		The autoclave residence time should not be less than 60 minutes at working
		temperature (inner chamber) of 121oC at a pressure of 2.5 bars).
		• For temperature of inner chamber of 135oC at a pressure of 3 bars the autoclave residence time should be not be less than 45 minutes.
		Capacity: Approximately 150 liters.
		 Autoclave should be properly equipped with door safety locks, pressure gauges & safety valves for chamber & jacket.
		Autoclave should have insulation jacket.
		The unit should have a timer from 1to 60 minutes that may be used for process
		or turn- on and shut down timings.
		With integral alarms that ring, flash, or otherwise display information when
		 temperature set-points are exceeded or fallen below. With Pressure safety valve, over-temperature limiter, door (lid) interlock, over
		pressure limiter.

		 Temperature and pressure gauges with safety valves Air shall be removed from the sterilization chamber after loading the autoclave automatically through the automatic control system Low water protection with audiovisual indicator It should be supplied with the following accessories. a) Baskets02Nos b) Trays 10Nos c) Heating element 04Nos All infrastructural work including plumbing and electrical work will have to be done by the supplier. The hospital will only provide space and water outlet
6	Autoclave Horizontal/Vertical type (200 liters)	 Single door, high pressure, high vacuum autoclave for sterilizing hospital materials. Electrically operated within built electric steam generator with the unit. System should be operated with a high vacuum pump within the unit. Double jacketed, single door and designed with several automatic mechanical and control features that provide for safety. Door must be lined with silicone rubber gas kits (expansion type). Temperature adjustable from 1210 to 135oC. Working pressure range from 2.5 bars to 3 bars. Supplied with RO System (make and model must be mentioned) Sterilization cycles: The autoclave residence time should not be less than 60 minutes at working temperature (inner chamber) of 121oC at a pressure of 2.5 bars). For temperature of inner chamber of 135oC at a of pressure 3 bars the autoclave residence time should be not be less than 45 minutes. Capacity: Approximately 200 liters. Autoclave should be properly equipped with door safety locks, pressure gauges & safety valves for chamber & jacket. Autoclave should have insulation jacket. The unit should have a timer from 1to 60 minutes that may be used for process or turn- on and shut down timings. With integral alarms that ring, flash, or otherwise display information when temperature set-points are exceeded or fallen below. With Pressure safety valve, over-temperature limiter, door (lid) interlock, over pressure limiter. Temperature and pressure gauges with safety valves Air shall be removed from the sterilization chamber after loading the autoclave automatically through the automatic control system Low water protection with audio visual indicator It should be supplied with the following accessories. a) Baskets 02No's b) Trays 10No's c) Heating element 04No's
		done by the supplier. The hospital will only provide space and water outlet

Surgical Instruments

Note: All the instruments must be made of stainless steel. All die made with hidden joints and leak proof. Manufacturers mark must be indicated on all instruments.

Selection must be subject to sample.

S#	Item Name	Specifications	Qty
1	All metal bladder syringe	•	
2	Allies forceps 6"		
3	Allies forceps long		
4	Amputation sets complete		
5	Aneurysm needle curved to the right		
6	Artery forceps 4"		
7	Artery forceps 5" pointed ss		
8	Artery forceps 6"		
9	Artery forceps 6" SS curved		
10	Artery forceps 8" straight		
11	Artery forceps 9" long curved		
12	Artery forceps 9" long pointed curved		
13	Artery forceps 9" long straight		
14	Bandy turin verbal forceps 9.5 long		
15	Basin SS		
16	Basin stand		
17	Berkleys Retractor		
18	Blood Groping Viewing Box	Set of Anti A, B, D. 10ml each	
19	Blood Groping Viewing Box	Set of Anti A, B, D. 10ml each	
20	Bohlerieg tight splint different size		
21	Bone cutting forceps		
22	Bone Nibbler		
23	Bone Ranger (Oral Surgery)		
24	Goggles Set of 12		
25	Bowel SS large		
26	Bowel SS small		
25	Bozemansfirst his catheter for washing		
	drum vessel		
26	Bozemans needle holder 7.5"		
27	BP blade box		
28	BP handle		
29	BP Scalpel Handle for Blad-15 oral surgery		
30	Brand splinters tendon stopper Brewers or gives specula 3 size		
31 32	Brims extension frame for long D sizes		
	Burner Burner		
33	Buckets		
34 35	Cartridge Syringes with aspirating facility		
36	Chart Holder		
37	Cheatle Sterilizer forceps10" long		
38	Check Retractor (Oral Surgery)		
39	Chisel 6 size		
40	Containers for Sputum Culture		
41	Containers for urine Culture		
42	Cremel double Retractor		
43	Curette Oral Surgery		
44	Curved light forceps for stone 8,6,5" long		
45	Danis Browns Retractor Universal		
46	Daring Tube Shapes 6 sizes		
	8,9,10,12,14,15 & 16		
47	Dilating complete set		
48	Dissecting forceps plain		
49	Ear syringe		
50	Elevator Angular Pair		
51	Elevator cross bar pair		
52	Elevator pair of cryers (Triangular Shape)		

53	Elevator straight		
54	Entrap Uterine Canals		
55	Erosed Mattable probe ended director 6.5"		
33	long		
56	Eve's intestinal forceps 9" long		
57	Examination Mirror		
58	Examination tweezers		
59	Extraction Forceps upper Interior		
60	Extraction forceps lower BDR		
61	Extraction forceps lower interior		
62	Extraction forceps lower molar		
	Extraction forceps lower pre-molar		
63 64			
	Extraction Forceps upper BDR Extraction Probe Upper Molar		
65			
66	Extraction Probe Upper Pre Molar	D 110 1 1 1 1 1 1 1	
67	Face mask all sizes set	Branded, Good quality, disposable (Imported)	
68	Female Dilator		
69	Female metallic catheter		
70	Galantian squotum sound		
71	Gallium Hysterectomy forceps curved		
	11x1		
72	Gallium Hysterectomy forceps straight		
	1x2		
73	Gland forceps		
74	Gadless urine dilator	good material adjustable	
75	Hammer Heavy		
76	Hangers models double ended cervix		
	dilation		
77	HerocsTurin uterus fine semi blunt	Best quality, good material,	
78	Hurry Fenwicks Retractor		
79	Instrument cabinet large size		
80	Intestine Holding forceps		
81	Introducer for Catheter		
82	Iron Safe good material, adjustable		
83	Kelley's Retractor good material,		
84	Kidney pedicle 9.5" long	good material,	
85	Kidney tray SS Size	good material,	
86	Laces Retractor		
87	Lamp cradle 3 size		
88	Lanes stomach holding forceps 8"		
89	Lange back's Retractor L Shape oral		
0)	surgery		
90	Legel Face Mask		
91	Lens Tissue forceps 8"		
92	Legenback Retractor		
93	Lion forceps v sizes		
94	Lockport memory fistula director pattern		
	1,2,3,4		
95	Main Gut intestinal forceps		
96	Mason Chained file dissector with probe		
	5.5"		
97	Mayas Safety Pins		
98	Mayo Curved 8.5" long		
99	Mayo instrument stand		
100	Mayo Needle Holer 7.5"		
101	Mayo Straight Scissors		
102	Megills forceps		
103	Metozone bum scissors 8.5"		
104	Mirrors Retractor		
105	Moore boil spoon with handle		
106	Mouth prop oral surgery		
107	Nail extractor		
107	Needle holder large size		
100	record norder range size		1

109	Nose speculum		
110	Nose Vigilant forceps 13.5"		
111	Oeatomes 4 sizes		
112	Oller Retractors		
113	Ordinary mask nasal catheters		
114	Parser excision clamp 9"		
115	Pelivis meter		
116	Periosteal Elevator Oral surgery		
117	Periosteum Elevator		
118	Perforators		
119	Pin cutter		
120	Plaster of paris knife		
121	Plaster table		
121	Plates Stainless steel full size		
123	Plates Stainless steel medium size		
	Plates Stainless steel Quarter size		
124	Pool S Abdominal Suction Tube		
125			
126	Position Aspirator Preat stainless steel		
127			
128	Precursor		
129	Randall's renal calculus curved	Best quality, good material,	
130	Rectal speculum large / small		
131	Rendell barker face mask all sizes	Good quality, disposable	
132	Rectangular tray SS		
133	Retro-grate boggles size 4/7, 6/9, 8/11		
134	Richardson Appendectomy Set Retractor		
135	Same ducks abill specula double ended		
136	Scissors oral surgery		
137	Scissors Surgical V. size		
138	Suction Bowl stand	Standard Bowl Single	
		 Stainless steel stand to support 1 X 35 	
		cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
139	Self-Retracting Abdominal	cm diameter. • Stainless steel bowl,	
139	Self-Retracting Abdominal	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140	Sim forceps	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141	Sim forceps SIMMs duck bill specula single ended	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8"	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16"	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151 152 153	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151 152 153	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light	cm diameter.Stainless steel bowl,Mounted on 4 X anit-static swivel	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool Surgical Blades Tendon hook	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4 comb attachments.	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool Surgical Blades Tendon hook Tenotomy knife Blunt ended	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4 comb attachments. From good quality glass material	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool Surgical Blades Tendon hook Tenotomy knife Blunt ended Tenotomy knife sharp pointed	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4 comb attachments.	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool Surgical Blades Tendon hook Tenotomy knife Blunt ended Tenotomy knife sharp pointed Tongue depressor	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4 comb attachments. From good quality glass material	
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	Sim forceps SIMMs duck bill specula single ended Single Hocks Blunt Singles vigilant dressing forceps with small sector Skin Retractor Skin small Retractor Small Needle Holder oral surgery Smith forceps hare curded left / right Sound Bladder Spittoons stainless steel Sponge holder forceps large size Sponge holder with curved older with curved handle 8" Sponge holder with spring handle 16" Spot light Suction bowel stand Surgeon revolver steel stool Surgical Blades Tendon hook Tenotomy knife Blunt ended Tenotomy knife sharp pointed	cm diameter. Stainless steel bowl, Mounted on 4 X anit-static swivel castors To have an adjustable blade control with 4 comb attachments. From good quality glass material	

1.60	m ·	T T	
163	Tourniquet		
164	Towel clip		
165	Tracer Canola		
166	Tray with cover large size		
167	Tubule inflation apparatus		
168	TV for Dining Hall		
169	Urethral V S		
170	Urinal stainless steel male and female		
171	Uterine curette blunt and sharp		
172	Vigilant dressing forceps 9.5"		
173	Wire cutting forceps		
174	Wallons Gesture Eterestomy clamp 13"		
175	Ward nephrolithotomy forceps		
176	Wash stand with 2 basin side by side		
177	Waxen Jones birth fracture frame		
178	Tendon Hammer		
179	wire Brush		
180	Tuning Fork		
181	Teflon Injection Burning Syringe		
182	Femoral Distractor		
183	Hand Chulk		
184	Pin Cutter		
185	Plate Bending Press	Stainless steel case, perforated Light Stainless steel case, perforated	
		Upper tray for instruments(stainless steel)	
		Lower tray for	
		instruments(stainless steel)	
		Triple Drill guide with fixed angle	
		for seating chisel	
		Reamer	
		Chisel guide with adjustable	
		angle for Seating Chisel	
		Seating chisel (For preparing blade	
		Channel)	
		Inserter/Extractor (With adjustable	
		Angled)	
		Impactor for Plates	
		Slotted Hammer	
		 Triangular positioning Plate (90 / 50 	
		/ 40DGR)	
		 Triangular Positioning Plate (80 / 70 	
		/ 30DGR)	
		• Triangular Positioning Plate (100/ 60	
		/ 20 DGR)	
		Condylar Plate Guide.	
186	Jex Thyroid Retractor hooking nut		
187	Prostate (Bladder) Self Retaining Retractor		
188	Thyroid Retractor		
189	Vaginal Speculum		
190	Amalgam Plunger filling		
191	Bone Rongers (Oral Surgery)		
192	Burnishing Filling		
193	Cartridge Syringe with Aspirating Facility		
194	Cellulose or Plastic Strip		
195	Cement Spatula		
196	Excavator Filling		
197		î .	
	Glass Slab		
198	Instrument for Filling		
199	Instrument for Filling Mortar & Pastel		
199 200	Instrument for Filling Mortar & Pastel Steel Matrix Bands Different Size		
199 200 201	Instrument for Filling Mortar & Pastel Steel Matrix Bands Different Size Bone Marrow Needle Paeds/Adult		
199 200	Instrument for Filling Mortar & Pastel Steel Matrix Bands Different Size	Consisting Of:	

		1 X Retractor With 2 Pairs Exchangeable
		Valves
		1 X Gusset Retractor
204	Stand for dressing iron	1 X Denis - Browne Retractor With 4 Blades
204	Stand for three sterilizer drum with	
203	drained	Make of Steel Pipe dia
206	Basin S.S.	Best Quality, Good material
207	Basin Stand	Best Quality, Good material
208	Dressing Drum	Trays SS 10" x 12" Artery forceps
		peon 6" Sponge holding forceps 10" Needle holder 6"
		Plain dissecting forceps 7" Tooth dissecting
		forceps 7'
		Scissors Assessing 6" kidney tray medium size
		Along with Container
209	Dressing drum large size	Trays SS 12" x 18" Artery forceps
		peon 6"
		Sponge holding forceps 10" Needle holder 6"
		Plain dissecting forceps 7" Tooth dissecting forceps 7'
		Scissors Assessing 6" kidney tray
		medium size
		Along with Container
210	Bone Marrow Aspiration Needle	Manufacturer's mark must be indicated on
011	Dana trankina naadla	all instruments
211	Bone trephine needle	Manufacturer's mark must be indicated on all instruments.
212	Chest Intubations Set	Manufacturer's mark must be
212		Indicated on all instruments.
213	L.P. Bone marrow	Manufacturer's mark must be
		Indicated on all instruments.
214	Liver biopsy needle	Manufacturer's mark must be indicated on
	I' /D' 2 WI A ' d' NI II	all instruments.
215	Liver/Biopsy 3 Way Aspiration Needles	Manufacturer's mark must be indicated on all instruments.
216	Mucus Extractor	Manual, Manufacturer's mark
		Must be indicated on all
		instruments.
217	Ordinary Mask Nasal Catheters	Manufacturer's mark must be indicated on
	DI ID: N II	all instruments.
218	Pleural Biopsy Needle	Manufacturer's mark must be indicated on all instruments.
219	Point's Aspirator	Manufacturer's mark must be indicated on
217	1 om 5 1 spirator	all instruments.
220	Electric Sterilizer	Instrument sterilizer to have seamless
		construction,
		Should be made of medical grade
		stainless steel.
		Should have thermostatically controlled heating through easily replaceable
		heating element of 1kW
		Size approximately
		18"Lx12"Wx9"H
		Should have handles for unit and lid
		The lid to be rigidly constructed to
		prevent warping hinged to the body and provided with a stop to keep it in the
		upright position.
		The instrument tray to be constructed of
		stainless steel and fixed with drip
	The Garbina Nation	handles.
	True Cut Biopsy Needle	Manufacturer's mark must be indicated on all instruments.
		all instruments.

Tongue Depressor Steel	Tongue Depressor Steel	

Hollow ware

Note: All the instruments must be made of stainless steel. All die made with hidden joints and leak proof. Manufacturers mark must be indicated on all instruments.

Selection will be on sample.

S#	Nomenclature	Specifications
1	Basin S.S	
2	Basin Stand	
3	Basin trolley with stand	
4	Basin wash hand with stand	
5	Bed Pan S.S	
6	Bowel S.S large size	
7	Bowel S.S small size	
8	Bowel with lid SS	
9	Bucket EI	
10	Drums for linens	
11	G.S Cups Medium & Large	
12	Gauze drum small size	
13	Hand washing basin with stand	
15	Kidney tray large size	Standard Size, Best Quality
16	Kidney tray S.S	Standard Size, Best Quanty
17	Rectangular tray S.S	
18	S.S Buckets	
19	Scrub Unit	
20	Spittoon S.S	
21	Stand for 3 sterilize drum with drained	
22	Stands for drums	
23	Steel box large size	
24	Steel square trays with cover non-magnetic 7x10", 10x12" &	
	12x16" (2 each)	
25	Tray stainless steel	
26	Tray with covers large size	
27	Urinal Stainless steel male & female	
28	Wash stand with two basin side by side	

<u>Category – Medical Gasses</u>

Selection will be on sample

S#	Nomenclature	Specifications	Qty
1	Oxygen, Nitrous Oxide CO2 & air 240 Cft cylinder with trolley	 Flow meter 0-15L/min with regulator humidifier & pressure gauge up 3500 PSI. Connected directly to the Cylinder. Complete with regulator, gauge and standard accessories. Carrier for cylinder with two wheels. The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided 	
2	Oxygen & Nitrous Oxide 48 Cft cylinder with gauge & trolley	 Flow meter 0-15L/min with regulator humidifier & pressure gauge up 3500 PSI. Connected directly to the Cylinder. Complete with regulator, gauge and standard accessories. Carrier for cylinder with two wheels. The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided 	
3	Oxygen Cylinder Key	Good quality Oxygen Cylinder Key for 240 & 48 CFT cylinders	
4	Oxygen Flow Meter	 Direct fitted to the Outlet BOC/Equivalent, included with the Humidifier. Nickel-plated brass base and body Clear shroud Expanded lower scale 0-5Lpm 	
5	Oxygen gauge	Complete with regulator, gauge and standard accessories.	

Category: Endoscopy

S#	Nomenclature	Specifications	Qty
1	Bronchoscope Flexible full set with all accessories	 Bronchoscope: The working length of the fiber scope should be 60 cm. The outer diameter should be 3.8mm or better. Range of bending at the tip should be minimum 180 degree up and 130 degree down approx. Working Channel diameter: 2.02 to 2.2 mm Compatible with camera head. Brilliant high resolution video images (model of CCD camera must be mentioned. LIGHT SOURCE: Compatible light source from the same manufacturer Automatic light adjustments to maintain optimum brightness 	
2	Cystoscope flexible set with light source complete	CYSTOSCOPE FLEXIBLE SET Working length: 37 cm or better. Distal Tip: 146Fr(4 .8mm to 4.9 mm). Working channel: 6.4 Fr(2.1mm) or better Active Deflection: 180° to 220°up,170° down or more With Passive Deflection. Light Carriers: 2, Field of view: 110° to 120° minimum, Depth of focus, 5-50 mm or better. Complete with grasping forceps, Fiber optic cable. Instrument lubricant. Biopsy port seals, cleaning brush & carrying case Complete light source from the same manufacturer.	
3	Endoscope Gastro duodenal	 HIGH DEFINITION GASTRO-VIDEO SCOPE High definition Compatible with standard set of accessories. Field of view: 140mm or better Working length: 1030mm or better Outer diameter: 9.8 mm Depth of field 4 to 100 mm or better on either side Angulation Range Up 210° Down 90° or better on either side Right 100° Left100° Channel Diameter 2.8mm Complete with xenon light/LED source (from same manufacturer) and video processor. With medical grade monitor/LED 27" or better (from same manufacturer and model must be mentioned) HD Resolution: 1920x1080 or better. Brightness: 300 Cd/m2 or better. Contrast Ratio: 2000:1 or better With a. Brightness stabilization b. Back light sensor. c. Power saving mode Accessories: AC power cord, Signal Cable. Along with disinfector Local (Model must be mentioned) Along with stainless steel trolley (Local). 	

4 Laparoscope
machine for Gynae
/OBS and General

Gynea and General Laparoscopy System

High definition three chip /CMOS Camera System

- Camera Console 220V with Universal Coupler.
- Pure Digital Signal with high definition video 2 Mega pixel or better (native resolution)
- Progressive scan technology both on camera head and console
- Brightness Control on Console and camera head
- Digital Zoom (x2.5) and White Balance Control on Camera Head
- Integrated Gain/Shutter / Enhancement with automatic brightness control

Video Output-

• Two DVI outputs

Automatic light source (From same manufacturer)

- 220volt, 300 watt. Xenon/LED Bulb (with one spare bulb)
- Light Adjustment
- Stand By Mode
- Universal Jaw Assembly branded
- Fiber Optic Cable with adapter

FIBER OPTIC CABLE

- 4.5 to 6.5mm x 240 cm or better Snap fit cable **MONITOR** (from same manufacturer)
- Quantity: 2
- 27" or better medical grade LED Monitor (from same manufacturer and model must be mentioned)
- High Definition

HD Resolution: 1920x1080 or better.

Brightness: 300 Cd/m2 or better.

Contrast Ratio: 2000:1 or better With

- 1. Brightness stabilization
- 2. Back light sensor.
- 3. Power saving mode &

Accessories: AC power cord, Signal Cable.

INSUFFLATOR

- 40 Liter of high flow, Microprocessor controlled unit
- Soft approach pressure control for safe recovery of abdominal pressure
- Gas heating
- LCD based central display monitor
- Audio visual warning signals

HD TELESCOPES, Fully autoclavable with working length 300 mm or better

- Wide angled distortion free view
- Universal adaptor for other light sources
- 0 degree, 10mm,
- 30 degree, 10mm,
- 0 degree,5mm

Tocars (Long & Standard):

- 5 mm 03Nos each
- 10 mm 03Nos each

Scissor: As per working length

Grasping forceps 02Nos Grasping and dissecting forceps: 02 Nos L Hook electrode: 01Nos

Universal Monopolar cable: 01No
Insufflations needle: 01No
Suction/irrigation cannula 01No
Clip applicator: 01No
Needle Holder: 01Nos
Uterus Manipulator: 01No
Knot Pusher: 01No

Along with stainless steel Trolley (Local)

5	Naso-pharyngoscope with suction & forceps	 Flexible Naso-pharyngo-laryngoscope for universal application, Immersible. Outer dia: 3.5mm, Working length: 300mm to 400mm, Total Length: 545mm or better Deflection up/down: 130°/130° Depth of Focus: 5mm to 50 mm, Field of view: 75 ° -95°, Complete with compatible light source and fiber optic cable (From same manufacturer).
6	Oesophagoscope instruments set	 Esophagoscopetube, Appr. Size 1, 6x8 mm (h xw) WL: 350mm. Cap with window, proximal illumination insert, Magnifier. Universal Cap, Straight Handle, Double bellows, Foreign Body Forceps, alligator jaws, WL: 450mm. Universal Forceps, WL: 450mm. Biopsy Forceps, spoon shaped, WL: 450mm. Retrograde biopsy forceps, WL: 450mm. Small tumor forceps, cutting WL: 450mm. Rotation forceps for hard foreign bodies WL: 450mm. Grasping forceps, for soft foreign bodies WL: 450mm. Flexible portion Working Length: 700mm, Diameter of Flexible Part: 13 mm. Instrument Channel: 3.7 mm. Deflection (Up/Down): 180/90 deg. Deflection (Right/Left): 110/110 deg. Depth of focus: 5-100mm. Biopsy Forceps, dia2.1 mm. Injector Cannula. Compatible Light Source and fiber optic cable (From same manufacturer). Complete with all accessories.
7	Sinus Endoscopy set with proof puncture needles	 Flexible Sino scope for universal application also in pediatric, immersible, Outer Dia, 3.5mm. WL400mm or better. Total Length 650 mm. Dia of Flexible Section3.6mm. Deflection up/down180°/90° Depth of Focus 3-50mm Field of view 95° or better. Instrument Channel 1.1 mm Dia. With proof puncture needles. With compatible light source(From same manufacturer) and fiber optic cable.
8	Bronchoscope Rigid	Size: Size: Multiple Spiral Size: Multiple Spiral Spira

		<u>Accessories</u>	
		Adapter with sliding glass wir lens and key hole opining, mo	ndow plug, sealing cap, notched ovable.
		Plug for ventilation attachment	of bronchoscope.
		Adaptor for Bronchoscope to a	
		respiration equipment.	
		<u>Light Source</u>	
		Compatible Light Source (From 1975)	om same manufacturer).
		Automatic / Manual Light Adj	ustment.
		 Along with fiber optic cable. 	
		 Features of Sigmadioscope: 	
9	Sigmoidoscope with	Specifications and Qualifications	tions:
	universal lighting	 Angle of view field: 	100° or more
		 Diameter of Distal End: 	ø13mm or less
		• Diameter of Insertion Tube:	ø12.8mm or less
		 Range of Tip Bending: 	180 °U,
			180°D,
			160 °R,
		D 4 677	160 °L
		Depth of View: Output Depth of View:	3-100mm or more
		Diameter of Instrument Chann	
		Working Length:	750mm to 950mm or better
		Working distance	56mm or more
		• Light Source:	(0)
		Along with compatible light so manufacturer).	ource (from the same
		 Power voltage and frequency ~ 	
		• Air pump: 0.03MPa= Pressure	e=0.06Mpa;

Category: Laboratory Equipment

S#	Nomenclature	Specifications	Qty
1	Automated	Open system consisting of :	
	Electrolyte Machine	Electrolyte analyzer for Na, k, Ca, Cl, Li, Ph	
		For whole blood, plasma, serum, urine	
		Sample volume: - blood / plasma / serum minimum 25 to 200uL	
		• Urine (diluted) 50-250 micro liters	
		Digital display	
		Stat facility	
		Auto sampler	
		Self-diagnostics programmed; system	
		monitoring and maintenance modes	
		 Patient results storage: 120 samples or better QC data storage: 20 or better 	
		Integral printer	
		Calibration: Automatic	
		Calibrators, controls, reagents, consumables for startup.	
		, , , , , , , , , , , , , , , , , , , ,	
2	Automated ESR	Fully automated ESR analyzer:	
	System	• LCD screen	
		Internal thermal printer	
		Easy operator software, Calibration & Controls	
		Results time: 30 seconds or less	
		Result / Hour: 130 samples/hour or better EDTA 11	
		• EDTA blood sample volume: 180 μl or less with automated withdrawal per test	
		Simple position: 20 or better	
3	Manual ESR System	E.S.R. APPARATUS WESTERGREENS TYPE BLOOD SEDIMENTATION APPARATUS acc. To Wintergreen, metal support, made of stainless steel, stable construction with special springs, with pipettes and specimen tube with rubber stopper (also for rapid method), for 10 examinations	
4	Blood Screening	8 keys laboratory counter with totalizer To fooilists a laylescept differential count in all ding becambile.	
	Counter	To facilitates leukocyte differential count including basophils, eosinophil's, lymphocytes, monocytes, myelocytes,	
		segmented and band (neutrophils)	
		Each key to register a unit corresponding to the identified	
		leukocyte.	
		After having counted 100 units of leukocytes a bell should sound and the percentage of every type of leukocytes can be	
		directly read.	
		Hundred steps for one thousand.	
5	Arterial Blood Gas	Microprocessor based system	
	Analyzer	Control panel with easy setting and monitoring	
		Easy 2 point calibration	
		Calibration history at least 24 hours	
		Easy changing access to the Electrodes and the solutions	
		Automatic sample recognition and sampling	
		Sampling techniques – whole blood Sampling volume	
		- syringe– less than 100 micro lit	
		- capillary– less than 70 micro lit	
		- Micro sample mode – less than 40 micro lit	

		• Analysis time – shall be less than 60secs
		• Measurement ranges
		- Measured parameters - PH –6.0-8.0 or better
		- H+ 10.0-500.0mmol/1 or better
		- pO2 0.0-800.0mmHg or better
		- pCO2-5.0-250.0 mmHg or better
		- Barometric pressure – 400.00-800.0mmHg
		Calculated parameters
		- HCO3 act – 0.0-60.0mmol/L
		- HCO3 std- 0.0-60.0mmol/L
		- BE vv+/-30mmol/L
		- tCO2-0.0-60.0mmol/L
		- O2 sat- 0.0-100.0%
		- O2 -0.0-40.0%
		Entered parameters
		- Temperature – 10° to45°C
		Temperature corrected parameters
		- pH(T)6.0-8.0
		- H+ (T) 10.0-500.0mmol/L
		- pO2 (T) 0.0-800.0mmHg
		- pCO2 (T)BE vt5.0-250.0 mmHg
		Power Requirement
		• Operate at 220 VAC +/-10%
		Accessories
		Include all standard accessories Include all standard accessories
		Include reagent for immediate start up and for 500 tests as recommended by manufacturer.
6	Centrifuge(Bench	recommended by manufacturer Consisting Of:
	Top) (for DHQ level	Angle Rotor Maximum Speed 6000rpm; Rcf6250g
	Hospitals)	Timing Up To 99 Minute; Continuous
	1103pittiis)	Microprocessor controlled.
		Programmable By Keypad; 32 Program storage
		Digital Display of Program Speed, Timing, Braking.
		Lid Safety Interlock
		Angle Rotor, Maximum Capacity 24 X 15ml, 24 X 7ml (With
		Adaptor)
7	Laboratory	Bench top centrifuge machine with angle rotor
	Centrifuge (for	Brushless motor
	Category C or D	Noiseless and vibration free (under 60db)
	level Hospitals)	Maximum speed upto 6000 rpm
		Digital control of timing up to 99 min
		Digital display of speed, timing
		Lid safety interlock
		• 12x15 ml tube, fixed angle rotor
		Adaptors 6-10ml
		Bench top centrifuge machine with angle rotor
8	Laboratory	Brushless motor
	Centrifuge (for RHC	Noiseless and vibration free (under 60db)
	Level)	Maximum speed up to 6000 rpm
		Digital control of timing up to 99 min
		Digital display of speed, timing
		Lid safety interlock
		• 6x15 ml tube, fixed angle rotor
		Adaptors 4-10ml
		Open Reagent System
9	1	
1	Fully Automated	Microprocessor based windows operated system
	chemistry Analyzer	Samples / Hour: 200 or better tests, up to 320 or better tests/hr
		• Samples / Hour: 200 or better tests, up to 320 or better tests/hr with ISE.
		Samples / Hour: 200 or better tests, up to 320 or better tests/hr

		 Sample Volume: 2 μL – 30 μL. Probe Sensors: Liquid level detection and collision protection. Probe cleaning: Automatic washing. Wavelengths: 340nm, 405nm, 450nm, 492nm, 505ml, 546nm, 578nm, 620nm, 670nm, 700nm (10 positions) Absorbance Range: 0.0001 Abs units at 1.0 Abs. Data Storage: 1800 or more (patient results) 50,000 or more (test results) Port: RS-232. 220 V, 50 Hz AC operated. With external printer (Model must be mentioned) Accessories 1. Tubes 01 set (50 Tubes) 2. Fuse 04 Sets 3. Extra Lamp 03
		4. User manual5. Operation Software
10	Semi-Automated Chemistry Analyzer	 Reagent open system Easy keypad operation with LCD Display. Wavelengths range is 340-670nm, 07 filters and one free position, supports flow cell and curette mode. Analytical models include kinetic, fixed time. Bi-chromatic end point with or without regent blank or sample blank, linear or non-linear calibration curves. Upto 1000 test results can be stored. Excellent QC function, 02 controls per test. Specification:- Absorbance Range -0.500-3.00 Abs. Resolution 0.001 Abs (displayed) Light sources: Halogen lamp. Wavelengths: 340,405, 500, 546, 578, 620,670, one free position. Wavelength Accuracy: ±1nm to ±3nm Band Width: < 8nm. Flow Cell: Metal – quartz flow cell. Temperature Control: 37⁰ C, ±0.1°C and ambient Display: LCD Display. Output: Internal Printer. Interface: Rs-232 serial cable. One extra Lamp.
11	Deionizer	 Automatic regeneration after manual initiation. Constant monitoring of final water quality. Solid-state reliability for trouble-free service. Automatic shut-off in event of power failure.
		 Compact, non-corrosive components. Convenient, modular construction. Easy, economical installation Conductivity of water0-30μs/m 20 to 30 liters per hour
12	Distillation water assembly	 Horizontal thick wall heat resistant Glass boiler fitted with 3 KW chromium placed heater. High efficiency coil condense ensures low temperature, high output quality Distillate of conductivity 03 to 04μs/m. Compact construction suitable for bench and wall mounting. Screw threads connectors for easy fitting or removal of hose safely. Built-in constant level device with Schott Ventura-Nova Valve for drainage provides easy de scaling without

		dismantling.	
		Safety thermostat	
		Distilled output: 10 Liters or better per 24 hours single distilled.	
		PH of water 5 to 10	
		Power Supply: 220v, 50 Hz Single Phase.	
		Tower suppry. 2201, so the single triase.	
		Consisting Of The Following Components.	
13	Elisa Machine (Reader,	For micro plate assay.	
	incubator shaker and	<u>PLATE READER</u>	
	Washer) Open System/ Programmable	Eight channel vertical light path filter photometer	
	1 Togrammable	End point and kinetic reading modes	
		Software for calculation modes	
		Storage for up to 96 assay protocols	
		• Range 400 to 670nm	
		Bandwidth upto 10nm	
		• Accuracy ±2%	
		• Precision 0.5%	
		 Reading speed 5 secs/ plate or better RS232 interface or USB interface 	
		With Incubator / Shaker	
		Digitally operated 8-speed or better shaker.	
		Can hold two 96 well micro plates for mixing and / or incubating	
		Temperature modifiable from ambient to 40°c with 0.1°c increment	
		With lid for light protection	
		Digital timer controls shaking.	
		With LED display	
		AUTOMATIC WASHER 8/12 channel	
		Micro plate washer to deliver washer buffer and ensure	
		complete liquid removal.	
		Minimum plates 96	
		Programs for recognition of flat, round and V type plates.	
		Automatic plate detection	
		 Auto alignment and row detection Auto calibration 	
		 Auto canoration Complete with wash, rinse, waste bottles and piping. 	
		Consisting of:	
14	Hematology Analyzer	Reagent open system	
	Open system.	Hematology Counter with 3 Parts differential automated.	
		Throughout 60 Samples / Hour minimum	
		Minimum 16 or better parameters including Hb, WBC,	
		RBC, Hct, Plt, and Derived values.	
		Flagging of results outside user defined limits Pletalets applying and distribution flagging	
		Platelets analysis and distribution flagging Micro compline copposition	
		Micro sampling capabilityAuto Calibration Program	
		Reagent level alert	
		System monitoring	
		Automated start up and shutdown	
		Result storage: upto minimum 500 results	
		Patient data entry and specimen recognition by Key board	
		RS 232 Interface,	
		Internal Printer.	
		With inbuilt auto-sampler or external specimen mixer.	
		Consumables, Reagents, Calibrators, Controls for startup.	
1.5	I also materials I also	Stainless steel chamber with adjustable shelves and a	
15	Laboratory Incubator	tough ended glass inner viewing door. The outer cabinet is to be rust resistant.	
		Temperature control: by digital display	
	l	Temperature controls by digital display	

Alarm system for high and low temperature, Door close / open.		T	
With over temperature safety cutout to be set by the user.			That is system for high and to well peruture, 2 our cross y
Fitted with circulation fan. Temperature: Range: At least 5°C above ambient to+60°C Control (Fan): Variation (Fan): Pub.25°C at+37°C Chamber Capacity: Sol-100Liters Shelves: 4 PH Meter PH Meter PH Meter PH Meter PH Ange Accuracy: -2.0 - 16 Resolution: 0.1°C Resolution: 0.1°C Resolution: 0.1°C No My Range accuracy: -10-120°c ±0.4°C Resolution: 0.1°C Ny Range accuracy: 2000mv, Resolution: 0.1°C Ny Robert CD, Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Spectrophotometer Spectrophotometer, wavelength 190 to1000mm Optical bandwidth 5mm meter Integral Printer or printer port with external printer (Model must be mentioned) Absorbance Range -0.300 to 2.500A or better on either side Transmittance Range 0 to 199.9% T or better Accuracy: ±2m or better Multi-Wavelength Assays Kinetics with Plot Scanning Measurement time: 2 to 9999 seconds or better Kinetics Calibration: Blank with a single standard or factor Kinetics Calibration, rate of change, initial and final absorbance or Stransmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells: Specific production and the capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			
Temperature: Range: At least 5°C above ambient to +60°C Control (fan): ±0.1°C at+37°C Control (fan): ±0.25°C at+37°C Chamber Capacity: 80-100Liters Shelves: 4 PH Meter PH Meter PH Meter PH Range Accuracy: -2.0 ~ 16 Resolution: 0.01 Auto Calibration: Auto (3 points) / Manual (3points) PH calibration approximately: 4, 7.0, 9.0, 10.0 Temperature: Range accuracy: -10~120°c ±0.4°c. Resolution: 0.1°c. My Range accuracy: -2000mv, Resolution: ±0.1mv. Data log: 50 or better points, With printer compatibility Display: custom LCD, Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer - LED screen Integral Printer or printer port with external printer (Model must be mentioned) Absorbance Range 0 to 199.9% T or better Accuracy: ±2nm or better Multi-Wavelength Assays Kinetics with Plot Scanning Measurement time: 2 to 9999 seconds or better Kinetics Calibration: Blank with a single standard or factor Kinetics: Display Graphical and concentration value Analysis Concentration, rate of change, initial and final absorbance on Sytransmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells. SS Filtration Assembly Assembly Assembly - Autoclavable filter holder Manifold made of stainless steel Two way valve for independent control Able to mount on filters Table top model Shall come with vacuum pump preferably peristaltic type Suction should be capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			· · · · · · · · · · · · · · · · · ·
Range: At least 5°C above ambient to 1-60°C Control (Fan): ±0.1°C at=37°C Variation (Fan): ±0.2°C at=37°C Variation (Fan): ±0.2°C at=37°C Chamber Capacity: 80-100Liters Shelves: 4 PH Range Accuracy: -2.0 ~ 16 Resolution:0.01 Auto Calibration: Auto (3 points) / Manual (3points) PH Calibration approximately : 4, 7.0, 9.0, 10.0 Temperature: Range accuracy: -10-120°c ±0.4°c. Resolution: 0.1°c. My Range accuracy: -2000mv, Resolution: 0.1°c. My Range accuracy: -2000mv, Resolution: 0.1°c. My Range accuracy: -2000mv, Resolution: 0.1°c. Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Absorbance Range -0.300 to 2.500A or better on either side Transmittance Range 0 to 199.9% To rbetter Accuracy: ±2mn or better Multi-Wavelength Assays Kinetics with Plot Scanning Measurement time: 2 to 9999 seconds or better Minetics: Display Graphical and concentration value Analysis Concentration, rate of change, initial and final absorbance of stransmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells. Autoclavable filter holder Manifold made of stainless steel Two way valve for independent control Able to mount on filters Table top model Shall come with vacuum pump preferably peristaltic type Suction should be capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			
Control (Fan): ±0.1°C att-37°C Variation (Fan): ±0.2°C att-37°C Chamber Capacity: 80-100Liters Shelves: 4 PH Meter PH Range Accuracy: -2.0 ~ 16 Resolution:0.01 Auto Calibration: Auto (3 points) / Manual (3points) PH Calibration approximately: 4, 7.0, 9.0, 10.0 Temperature: Range accuracy: -10~120°c ±0.4°c. Resolution: 0.1°c. My Range accuracy: 2000mw, Resolution: ±0.1 mw. Data log: 50 or better points, With printer compatibility Display: custom LCD, Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Spectrophotometer Measurement ime: 2 to 9999 seconds or better on either side Transmittance Range 0 to 199.9% To rbetter Accuracy: ±2m or better Accuracy: ±2m or better Measurement time: 2 to 9999 seconds or better Kinetics: Bisplay Graphical and concentration value Analysis Concentration, rate of change, initial and final absorbance or % transmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells. Autoclavable filter holder Manifold made of stainless steel Two way value for independent control Able to mount on filters Table top model Shall come with vacuum pump preferably peristaltic type Succion should be capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			
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Chamber Capacity: 80-100Liters			· · ·
PH Meter PH Mange Accuracy: -2.0 ~ 16 Resolution: 0.01 Auto Calibration: Auto (3 points) / Manual (3points) PH calibration approximately: 4, 7.0, 9.0, 10.0 Temperature: Range accuracy: -10~120°c ±0.4°c. Resolution: 0.1°c. Mv Range accuracy: 2000mv, Resolution: ±0.1 mv. Data log: 50 or better points, With printer compatibility Display: custom LCD, Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Spectrophotometer, wavelength 190 to1000mm Optical bandwidth 5mm meter LED screen Integral Printer or printer port with external printer (Model must be mentioned) Absorbance Range -0.300 to 2.500A or better on either side Transmittance Range 0 to 199.9%T or better Accuracy: ±2mm or better Multi-Wavelength Assays Kinetics with Plot Scanning Measurement time: 2 to 9999 seconds or better Kinetics: Display Graphical and concentration value Analysis Concentration, rate of change, initial and final absorbance or %transmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells. SS Filtration Assembly SS Filtration Assembly Autoclavable filter holder Manifold made of stainless steel Two way valve for independent control Able to mount on filters Table top model Shall come with vacuum pump preferably peristaltic type Suction should be capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			, , ,
PH Meter Resolution:0.01 Auto Calibration: Auto (3 points) / Manual (3points) PH calibration approximately: 4, 7.0, 9.0, 10.0 Temperature: Range accuracy: -10-120°c ±0.4°c. Resolution: 0.1°c. My Range accuracy: 2000my, Resolution: ±0.1 mv. Data log: 50 or better points, With printer compatibility Display: custom LCD, Inputs: USB Power: Rechargeable Battery/DC Power Adaptor. Spectrophotometer Spectrophotometer, wavelength 190 to 1000nm Optical bandwidth 5nm meter LED screen Integral Printer or printer port with external printer (Model must be mentioned) Absorbance Range -0.300 to 2.500A or better on either side Transmittance Range to to 199.9% T or better Accuracy: ±2mm or better Multi-Wavelength Assays Kinetics with Plot Scanning Measurement time: 2 to 9999 seconds or better Kinetics: Osiplay Graphical and concentration value Analysis Concentration, rate of change, initial and final absorbance or % transmittance Self-Test and Calibration RS232 interface Supply with spare lamps 2 no's, fuses, dust cover and two cells. Autoclavable filter holder Manifold made of stainless steel Two way valve for independent control Able to mount on filters Table top model Shall come with vacuum pump preferably peristaltic type Suction should be capable of processing micro pore filter of 0.4 micron Power supply 220V single phase			• Shelves: 4
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Power supply 220V single phase			 Suction should be capable of processing micro pore filter of
			0.4 micron
Accessories			
Complete with standard accessories includes:0.4			
micron filter box of 200's			
Cold light source, Urine meter Auto safe data in case of power failure.	10	Urine meter	
Truto sure data in case of power failure.	19	OTHE HICK	-
Ascorbic acid, bilirubin, blood, glucose, ketene, leucocytes, nitrite PH.			
Throughout normal mode. 60 sample / hour.			
Continuous mode. 120 sample/hours or better			
Display: 5" large LCD or better.			• Display: 5" large LCD or better.
Memory: 1000 sample results.			
Out Put Built-in thermal printer.	1		Out Put Built-in thermal printer.

		Vortey miver to energie when pressure is applied to the million
20	Vortex mixer	 Vortex mixer to operate when pressure is applied to the rubber cup which receives the vessel containing the materials to be mixed. Variable speed control up to 3000 rpm or better Operating Mode: Touch or Continuous With multiple shaking heads 10-13mm and 15mL tube head, for 16 tubes Head for 4 x 15 ml tubes Standard Microscope Consisting of:-
21	Binocular Microscope	 Binocular Head Adjustable Inter Papillary Distance Rotating Quadruple Nose Piece Adjustable stage with venire Scale And spring clip for slides Coaxial Controls Condenser carrier, vertically adjustable Bright field condenser, NA ,0.9,FlipTop Light adjustment for condenser Aperture Iris Diaphragm Kohler illumination Halogen /LED illumination Eye Piece Lenses:- X10 wide field, focusable Objective Lenses:- X4 Plain Achromatic X10 Plain Achromatic N.A0.25 X40 Plain Achromatic N.A0.65 X100 Plain Achromatic N.A1.25, Oil Immersion With following accessories:- Blue iris aperture Oiler Dust cover
22	Blood Bank Refrigerator	 Cabinet to have smooth stainless steel interior. Outer door to stay open for ease of access and to have assisted closing with magnetic gasket. With transparent inner door. With two or more shelves. With lockable door. With interior lighting. LCD display for temperature and warning / error massages. Temperature range: 2 to 8 °c or better on either side. To have seven days chart recorder. Alarm for warning and error massages. USB port with frontal access for data transfer. Minimum Capacity: 120x500cc bag. With Servo controlled stabilizer.
23	Dry Heat Sterilizer/ Hot air oven	Features: Dust-Free Gravity-Flow convection For drying, conditioning, Sterilizing and quality control. Display: Digital touch key pad for temperature control, timer, alarm. Automatic on/ off function Over temperature and current protection. Leakage breaker, fan motor automatically stops when door is opens. Rapid Heat up in 25 min up to 250°C Digital Timer built-in Controller Capacity: 60Liters Temperature Range Ambient + 5°C to 250°C Accuracy +1.0°C Uniformity + 3.0°C at 120°C Timer Automatic timer 0-99 min,99hr, continuous Material Inner Stainless Steel Outer Steel with epoxy powder coating Shelves Adjustable 2 or 3shelves Electric Supply 220 V, 50Hz

24	Automatic Blood Bag Shaker	 Microprocessor controlled Digital display: For speed and time Digital speed control 5 to 100 RPM or better Tilting angle adjustment: 7° to 13° Timer range: 1 min to 99 hours. Max. Blood bags: 6 bags
25	Water Bath	 Capacity: 22liters Microprocessor controlled Digital display for temperature controlled Temperature: Range: Ambient to 99 °C Accuracy: +-0.5 °C Uniformity: +- 2.0 °C Material: Bath: seamless stainless steel with lid Case power coated steal Safety: over temperature cut-off, Alarm Electric supply: 220v,50Hz

Category: Laboratory Ware

Note: Selection will be on sample

		Note: Selection will be on sample	
S#	Nomenclature	Specification	Qty
1	Automatic pipette (Full Set)	Standard sizes branded	
2	Blood grouping viewing box	Set of Anti A, B, D. 10ml each branded	_
3	Bone marrow needles (Adults)	Branded ,reusable ,autoclavable	
4	Bone marrow needles (Pediatrics)	Must be re-useable.	
5	Centrifuge Tubes (Glass)	 Good quality made from glass. Tubes are conical- bottomed, with a skirt that extends beyond the bottom of the tube so it can stand without support. branded 	
6	Centrifuge Tubes (Plastic)	 Good quality made from plastic. Tubes are conical- bottomed, with a skirt that extends beyond the bottom of the tube so it can stand without support Branded. 	
7	Containers for sputum	Stainless Steel with standard size.	
8	Containers for Urine	Made from stainless steel.	
9	Cover Slip	 From good quality glass material, Size:- 25.4x76.2mm 1.1.2mm thick 	
10	DLC Counter	 Size: Standard 8keys. Heavy duty, resistant plastic housing. Dual reset knob. Signal bell when 100 cells counted 	
11	ESR Pipettes	Made from Pyrex with graduated scale branded	
12	ESR Rack	Good quality , washable, stainless steel rack branded	
13	ESR stand for five Tube	Good quality, washable, quality material & can hold five tubes	
14	FSP Pipette	Good quality , washable, quality material branded	
15	Glass pipettes (different sizes)	Made from durable material with graduated scale. branded	
16	Glass Slide	From good quality glass material branded	
17	Glass Wares	From good quality glass material branded	
18	Jester pipettes (adjustable)	Best quality, good material, adjustable Best quality, good material Best quality, good material	
10	T (CE)	branded	
19	Jester pipettes(Fixed) Jesters		
21	Lancets	From good quality material.	_
		Branded	
22	Micropipette Digital Different size	Standard sizes branded	
23	Pipette assorted sizes	Made with graduated scale. branded	
24	Pipette stands	Standard size stand made from stainless steel. branded	
25	Reagent Bottles	With good quality material. branded	
26	SahliHemoglobin meter	Manual Hemoglobin meter with Hb pipette, Hb tube, bottle, glass rod, scanner for Hb Measuring branded	
27	Test tube holder	Stainless steel with 36 tubes. branded	
28	Test Tube Racks Stainless Steel	Good quality, washable, stainless steel rack and can hold 12 tubes. branded	
29	Test Tubes	From good quality glass material	
30	Test Tubes Racks wooden	Good quality and finish good wood and can hold 12 test tubes.	
31	Tube Sealer	Oscillation Frequency 68 MHz or better	

		D 1' E 0	
		Radio Frequency Output 500Ohm	
		Max Sealing Time 10 seconds or better	
		Power Voltage 220 voltage	
		Power Frequency 50Hz	
		Power Consumption 220VA	
32	Trephine biopsy needle	Must be re-useable. autoclavable	
33	Wire Loops	Good quality material	
34	Wooden Boxes	Good quality material	
35	Electronic Balance	Automatic Internal Calibration through Built in	
		Motorized Weight	
		Maximum Capacity: 0 mg to 220 gm. orbetter	
		Glass Breeze Break	
37	Haemo cytometer	Manually operated, complete set of counting chamber,	
		Cover slips, WBC pipette, RBC Pipettes (Imported).	
38	Analytical Balance /Electric balance	• The balance to weigh up to 400g in 1mg increments.	
		The balance to be small, flat and conveniently housed in	
		portable lightweight easy to clean housing.	
		To have a 7 digit luminous display with overload protection.	
		To come complete with data input and output terminals and a	
		printout terminal	
39	Jester 1 ml	Parts:	
		1. Pushing Knob	
		2. Adjustable wheel	
		3. Tip effecting knob	
		4. Clunter	
		5. Handle	
		6. Suction tube	
40	Jester (10 to 50 ul)	All kind of jester should be moveable 1. Pushing Knob	
40	Jester (10 to 30 til)	2. Adjustable wheel	
		3. Tip effecting knob	
		4. Clunter	
		5. Handle	
		6. Suction tube	
		All kind of jester should be moveable	
41	Jester (10 to 100 ul)	1. Pushing Knob	
	,	2. Adjustable wheel	
		3. Tip effecting knob	
		4. Clunter	
		5. Handle	
		6. Suction tube	
		All kind of jester should be moveable	
42	Jester (10 to 200 ul)	1. Pushing Knob	
		2. Adjustable wheel	
		3. Tip effecting knob	
		4. Clunter	
		5. Handle	
		6. Suction tube	
		All kind of jester should be moveable	
43	Jester Fix 10ul	1. Pushing Knob	
		2. Adjustable wheel	
		3. Tip effecting knob	
		4. Clunter	
		5. Handle	
		6. Suction tube	
		All kind of jester should be moveable	

Category: Radiology

S# Nomenclature	Specification	Qty
1 X-Ray Plant 1000 mA, with built in or external AVR	 HIGH FREQUENCY X-RAY MACHINE 1000 mA (RADIOGRAPHY ONLY) with Inbuilt or external AVR. In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned. the AVR must able to control the voltage between 300V to 440V & to provide constant output voltage of 440V,50Hz. 3-Phase AVR with servo motor and copper winding (maximum power, brand and model must be mentioned.) With over and under current, voltage and heat protection. In case of external AVR and ups system the AVR system shall be compatible. (Compatibility certificate from the supplier must be provided). X-RAY unit Comprising of following: - High Frequency, Microprocessor controlled X-Ray Generator 1000 mA /150 KV / 80 KW or better. 4 Way Floating top Bucky table Floor to ceiling Tube stand. Input voltage: 380~440VAC 3-phase. kV Range: 40 - 150kV. mA Range: 10 -1000mA. Minimum exposure time: 1 millisecond or less. Exposure time range: 1ms - 10 sec or more. mAs Range: 02 - 1000mAs Anatomical Programming: 150 or more. Digital display of parameters. Hand Switch for Radiography. With control console. Pedestal for control console. Automatic main line compensation. ROTATING ANODE with HSS, X-RAY TUBE(model must be 	
	mentioned) Double focus: Small Focus: 0.6 x 0.6 mm or Less. Large Focus: 1.2 x 1.2 mm or Less. Tube voltage: 150kV. Anode heat storage capacity: 300 KHU or more. Target Angle: 12° or better. FOUR WAY FLOATING TOP BUCKY TABLE(model must be mentioned) Four way floating top. Oscillating Grid. Cassette Tray to accommodate cassettes up to 14x17inch. Electromagnetic Brakes. Grid ratio 12:1 COLUMN STAND WITHMANUALCOLLIMATOR(model must be mentioned) Column stands with electromagnetic brakes for movement control. Manual Collimator Colum stand console with handle having facility of tube rotation(vertical axis), Vertical movement and horizontal movement. HIGH TENSION CABLES: Pair of High Tension Cables, each 12 m or long. WALL BUCKY STAND(model must be mentioned) Vertical Travel, up and down with balancing system & Electromagnetic Brakes. Oscillating Grid. Cassette Tray to accommodate cassettes up to 14x17 inch Grid ratio 12:1	

2

• HIGH FREQUENCY X-RAY MACHINE 500 MA (RADIOGRAPHY ONLY) with Inbuilt or external AVR and UPS

In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned

- the AVR must able to control the voltage between 100Vto 260V&to provide constant output voltage of 220V,50Hz
- In case of external AVR and ups system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided).
- AVR/UPS maximum power, brand and model must be mentioned.
- With over and under current, voltage and heat protection

X-RAY unit Comprising of following: -

- High Frequency X-Ray Generator 500mA /150 KV / 40 KW or better.
- With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better.
- 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand.
 X-ray tube head with;
- Focal spot Size 0.6 x 1.2 mm or better on either side
- 300 KHU or more.
- Manual Collimator.
- Pair of H.T cable
- .Bucky wall stand.

X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM

- Microprocessor controlled High frequency.
- Power: 40 kW or better.
- kV Range: 40 150kV
- mA Range: 10 -500mA
- Minimum exposure time: 1 milli second or less
- Exposure time range: 1 ms 8.0 sec or more
- mAs Range: 02 500mAs or more
- Anatomical Programming: 100 or more.
- Digital display of parameters.
- Hand Switch for Radiography.
- With control console.
- Pedestal for control console.
- Automatic main line compensation.
- Input voltage: 220V, 50Hz.

<u>ROTATING ANODE, DOUBLE FOCUS X-RAY TUBE(model must be mentioned)</u>

- Small Focus: 0.6 x 0.6 mm or Less.
- Large Focus: 1.2 x 1.2 mm or Less.
- Tube voltage: 150kV.
- Anode heat storage capacity: 300 KHU or more.
- Target Angle: 12° or better

FOUR WAY FLOATING TOP BUCKY TABLE(model must be mentioned)

- Four way floating top.
- Oscillating Grid.
- Cassette Tray to accommodate cassettes up to 14x17inch
- Electromagnetic Brakes.
- Grid ratio 12:1

COLUMNSTAND WITH MANUALCOLLIMATOR (model must be mentioned)

- Column stands with electromagnetic brakes for movement control.
- Manual Collimator

HIGH TENSION CABLES:-

- Pair of High Tension Cables, each 12 m or more long <u>WALL</u> <u>BUCKY STAND(model must be mentioned)</u>
- Vertical Travel, up and down with balancing system & Electromagnetic Brakes
- Oscillating Grid
- Cassette Tray to accommodate cassettes up to 14x17 inch
- Grid ratio 12:1

X-Ray Plants 300mA AC & Battery Operated in built or external AVR

3

HIGH FREQUENCY X-RAY MACHINE 300 MA (RADIOGRAPHY ONLY) with Inbuilt or external AVR and UPS

In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned

- the AVR must be able to control the voltage between 100VAC to 260VAC, to provide constant output voltage of 220VAC,50Hz
- In case of external AVR and UPS system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided).
- AVR/UPS maximum power, brand model must be mentioned.
- With over and under current, voltage and heat protection.

X-RAY unit Comprising of following: -

- High Frequency X-Ray Generator 300 mA /125 KV / 32 KW or better.
- With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better.
- 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand.

X-ray tube head with;

- Focal spot Size 0.6 x 1.2 mm or better on either side
- 140KHU or more.
- Manual Collimator.
- Pair of H.T cable
- Bucky wall stand.

X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM

- Microprocessor controlled High frequency.
- Power: 32 kW or better.
- kV Range: 40 125kV
- mA Range: 10-300mA
- Minimum exposure time: 1 milli second
- Exposure time range: 1 ms 4 sec or more
- mAs Range: 02 300 mAs or more
- Anatomical Programming: 40 or more.
- Digital display of parameters.
- Hand Switch for Radiography.
 - With control console.
- Pedestal for control console.
- Automatic main line compensation.
- Input voltage:220 V, 50Hz.

ROTATING ANODE, DOUBLE FOCUS X-RAY TUBE(model must be mentioned)

- Small Focus: 0.6 x 0.6 mm or better.
- Large Focus: 1.2 x 1.2 mm or better.
- Tube voltage: 125kV.
- Anode heat storage capacity: 140 KHU or more.
- Target Angle: 12° or better

FOUR WAY FLOATING TOP BUCKY TABLE(model must be mentioned)

- Four way floating top.
- Oscillating Grid.
- Cassette Tray to accommodate cassettes up to 14x17inch
- Electromagnetic Brakes.
- Grid ratio 12:1

COLUMNSTAND WITH

MANUALCOLLIMATOR(model must be mentioned)

- Column stands with electromagnetic brakes for movement control.
- Manual Collimator
- Colum stand console with handle having facility of tube rotation(vertical axis), Vertical movement and horizontal movement

HIGH TENSION CABLES:-

• Pair of High Tension Cables, each 12 m or more long WALL BUCKY STAND(model must be mentioned)

ı		
		Vertical Travel, up and down with balancing system &
		Electromagnetic Brakes
		 Oscillating Grid Cassette Tray to accommodate cassettes up to 14x17 inch
		Grid ratio 12:1.
		300mA Inverter Type Mobile X-Ray Unit with AC & Battery Operated facilit
4	Mobile X-Ray plant 300	• Input voltage 220v, 50Hz
	mA/125KV AC & Battery Operated	X-Ray Generator
		• KV Range : 40kv to 125 kV in 01 kV Steps.
		• mA Range : Max. 300mA
		• KW : 32KW or better
		X-Ray Tube Unit
		• Rotating anode : Double focus
		• Focus Size : 0.6 & 1.2 mm or better on either side
		 Target Angle : 14 or better on either side Anode heat storage capacity : 140 KHU or better
		Alloue heat storage capacity . 140 KHO of better
		X-Ray Beam Limiting Device
		Projector Lamp: Halogen
		Filtration: 1.2mm Aluminum or better.
		Movement Range Of X-Ray Tube
		• (Center Of X-Ray Tube): Vertical: 45cm To 200cm From Floor To
		Focus or better
		• Rotating Column :360°
		Longitudinal Pivoting Of X-Ray Tube: 90 Backward
		Horizontal Rotation of Arm should be available.
		With APR system.
		Cassette Box: For Storage Of At Least 3 Cassettes
5	CR System	Digitizer Francisco de la constanta de l
5	(computerized radiography	Exposure size: 14"x17" /14"x14" / 11"x14" / 10"x12" / 8"x10"
	system) with compatible UPS	Sampling pitch:
	1	2 Types: 80μmto 180 μm or better.
		Digital Gradation level:
		4096 Levels (12-Bit)
		Processing Capability: up to 80 Plates / hour (14"x14"/14x17" (180μm)
		Cassette Feed
		45 seconds for (14"x14"/ 14x17" (180μm) 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
		Gray scale Standard Display Function (Print Output)
		Computer Desktop (branded from original manufacturer) CDN C
		CPU Core i 7 Processor: 3.4
		GHz Bit Processing: 64 Bits
		Cache L1-L2: 8MB
		CD/DD/Super Drive Support Installed
		Processor Core i7 Hard Disk: 1 TB
		Memory Ram type: DDR3 Number of memory /Rem State: 2, State
		Number of memory /Ram Slots: 2 Slots Memory Ram Size: 8 Giga Byte, supported up to 16 Giga Byte
		USB: 06 USB Ports or better

		One extra Lithium Battery with the detector should be provide
		IMAGE ACQUISITION IMAGE PROCESSING
		PC based computerized IMAGE ACQUISITION IMAGE PROCESSING
		with window based software
		• 19 inch medical grade TFT monitor with high resolution 1280x1024 or
		better Brightness: 300 Cd/m2 or better Contrast Ratio: 2000:1 or better
		With Brightness stabilization
		The software have capability to support 2 detectors or more A property of the software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 2 detectors or more The software have capability to support 3 detectors or more The software have capability to support 4 detectors or more The software have capability to support 4 detectors or more The software have capability to support 4 detectors or more and 4 detectors or more The software have capability to support 4 detectors or more and 4 detectors
		Image saving in CD/DVD and DICOM format should be possible. (A Pice Co. L. 2007)
		Multi core processor (core i7, 3.4Hz) bit processing 64 Bits, Cache 8MB,
		special graphic card for medical grade monitor installed in CPU. RAM
		not less than 4GB and Should have image storage disk of at least 1TB
		internally
		The system should have ready DICOM interface and networking The system should have ready DICOM interface and networking
		capability with PACS.
		Post processing function must be available. Measurement Tools, Window Level Poster Poster Monifer Zoom, Images alchoration with
		Level, Rotate, Repeat / Reject, Magnify, Zoom, Images elaboration with
		examination specific algorithms
		Filming options should be available Parameters of the 220M 50M.
		Power Supply – 220V, 50Hz. The state of the sta
		Dry film printer with at least 3 online film tray, for printing the digital images (Model and broad great has mortioned)
		images (Model and brand must be mentioned)
		UPS maximum power, model, make and brand must be mentioned
		Variable speed 45 sec, 60 sec, 90 &120 sec
7	Automatic Film	Film: 90 Films per Hour or more
	Processor	Minimum Film Size: 4 x 4 inch
		Maximum Film Size: 14 x 17 inch Flootist Province and 220VAC 50 Hz
		Electrical Requirements: 220VAC, 50 Hz Heavy duty U/S machine (inbuilt trolley mounted) with
8	Ultrasound machine (General	Imaging Mode: B,B/B,B/M,M
	purpose) with in built trolley	• Gray Scale: 256
	mounted	• Display: 14" TFT or better
		Scanning Depth: From 20 To 248 mm
		Pre-Processing: Signal Processing, Dynamic Range, Frame
		Correlation, Line Correlation,
		Image Enhancement, Scanning Angle Selection, Homonia Imaging)
		Harmonic Imaging) • Post-Processing Gray Map Y- Correction, Rejection Left-Right
		Reverse, Up-Down Reverse
		Hard Disk: 500 GB or better
		• Cine Loop: 256-Frame Cine loop Memory In
		B/B, M and B/M Mode.
		Zoom: Panoramic Zoom In Real-Time &
		• Frozen: Condition
		Measurement & Calculation:
		B.Mood: Distance, Circumference, Area, Volume, Angle, Ratio.
		Built-In Imaging Archive" Storage : Over100,000 still Images"
		Histogram, Profile, S%
		M-Mode, Distance, Time, Velocity, Heart Rate (2 Cycles)
		Software Packages.
		Abdomen, Urology, Gynecology, Obstetrics, Cardiology,
		Vascular, Small Parts, Orthopedics.
		Power Supply :220 VAC,50Hz Standard Configurations:
		Standard Configurations: Main Unit
		3 active Probe Connector.
		Tissue Harmonic Imaging.
		• 256-Frame Cine Loop In B, B/B,M& B/M Mood
		USB Ports minimum 2 and CD-RW.
		Measurement And Calculation Software Packages

	Electronic Convex Array Transducer. (Model must be mentioned).2.5/3.5/5.0/H4.6/H6.0 MHz
	Electronic Linear Array Transducer: (Model must
	be mentioned)5.0/7.5/10MHz
	Along With
	• Thermal Printer (Branded & model must be mentioned)
	• 50 Roles Thermal Paper.
	 With built in UPS system for minimum 1 hour backup.
	Ultrasound Gel 20Ltr
	With built in mounted trolley.

<u>Category: Radiology Accessories / Allied Equipment</u> <u>Selection will be on sample</u>

S#	Nomenclature	Specification	Qty
1	X-Ray Viewing Box	• X-Ray Film Viewer with following features.	
		 Housing made of epoxy-coated steel. 	
		 Viewing area for two 14"x17"film. 	
		• Light intensity more than 6000 Lux.	
		With light intensity control.	
		 Suitable for wall mounted and table use. 	
		Film clamps and hooks for holding wet films	
		Power requirements 220V,50Hz.	
2	X-Ray Cassette 12 x 15	Cassettes with H.S type intensifying screen. From USA, Japan, UK,	
	with Green screen.	Germany and Korea. With green screen for selection.	
3	X-Ray Cassette 10 x 12	Cassettes with H.S type intensifying screen. From USA,	
	with Green screen.	Japan, UK, Germany and Korea. With green screen for selection.	
4	X-Ray Cassette 8 x 10 with	Cassettes with H.S type intensifying screen. From USA,	
	Green screen.	Japan, UK, Germany and Korea. With green screen for selection.	
	X-Ray Cassette 12 x 15	Cassettes with H.S type intensifying screen. From USA, Japan, UK,	
	with blue screen.	Germany and Korea. With blue screen for selection.	
	X-Ray Cassette 10 x 12	Cassettes with H.S type intensifying screen. From USA,	
	with blue screen.	Japan, UK, Germany and Korea. With blue screen for selection	
	X-Ray Cassette 10 x 10	Cassettes with H.S type intensifying screen. From USA,	
	with blue screen.	Japan, UK, Germany and Korea. blue screen for selection	
5	Hangers Various Size	Hanger to be manufactured from stainless steel and to	
		Have a clip at each end to keep film taut.	
6	Safe Light for Dark Room	Wall mounted lamp for all blue and green sensitive X-Ray	
	-	Films. Together with two spare lamps (15 watts).	
		• Power requirement 220V/50Hz.	
8	Lead Apron	Best quality, imported	
	_	Flexible lead rubber in tear resistant plastic cover	
		Sleeveless, half-length at back	
		Fastening with crossed elastic straps with Velcro end	
		0.5mm lead thickness for small, medium and large sizes	
9	Lead Gloves	Best quality, imported	
		Flexible lead rubber in tear resistant plastic cover	
		0.2mm lead thickness inside gloves.	
10	Lead Glass Shield	3 part X-Ray protection screen with metal frame. Size of	
		each part should be 7'x2.5' covered with lead sheet of 0.2mm	
		• Easily moveable to all sides on at least 2 castors on each part.	
		• Lead glass size 200x200mm,thickness 2mm	
		• .	
13	Immersion Rod	For warming of developer, good quality	
	Plastic Apron	For dark room water proof, good quality, imported.	
	Clamps	For hanging of films, good quality.	
	Wet Film Stand	For drying of films, Wet films stand for holding wet films to accommodate up	
		to 10 Nos 14"x17" size, after manual film processing.	
17	Manual Film Processor	The processing unit to be equipped with a thermostatically	
		controlled water jacket containing S.Steel processing tanks together with	
		a separate unheated running wash section	
		 Overall dimensions: 570x650x825 mm high with a splash 	
		Back 230mm high.	
		 Developing and fixing tanks 3 gallon capacity each. 	
18	X-Ray Viewer	• X-Ray Film Viewer with following features.	
		 Housing made of epoxy-coated steel. 	
		• Viewing area for two 14"x17" film.	
		• Light intensity more than 9000 lux.	
		• Suitable for wall mounted and table use. Film clamps and hooks for	
		holding wet films Light intensity control.	
1 1		• Power requirements 220V, 50Hz.	

Category: ENT Equipment

S#	Nomenclature	Specification	Qty
1	ENT examination Chair	 ENT CHAIR Patient chair with Peltex-lined seat and backrest. Electric up and down movements by silent engine controlled through foot switch. Back-rest can be adjusted up to 180° by a gas spring. Chair rotation.360° and is provided with a rotation locking device. Input voltage 220V-50Hz NOTE; The chair & ENT Unit must be from the same manufacturer 	
2.	ENT Examination Unit with cautery suction	 ENT CABINET The ENT Unit mobile on pivoting castors, Working surface made of scratch-proof material. One drawer to keep sterilized instrument. With a silent suction pump of 45 L/min or better at 680 mmHg with suction bottle 3000cc. With power supply complete with dim adjustment device for lamp, larynx-mirror warmer, and twin-cylinder dry compressor for tubal insufflations. 2-liters distilled water tank with acoustic signal for reserve level. With articulated arm for instruments holding tray with terminal suction canola and terminal insufflations canola. Ear rinsing syringe with automatic water temperature control to keep the water warm at37°C Pressure Monometer with medication sprayer. 	
		 Mirror-heater With inbuilt Cautery machine. <u>DOCTOR CHAIR</u> Height adjusted by Gas bracked system. Mobile on 5 soft double conductive castors. Back rest variable in height and inclination. <u>NOTE</u>; The chair & ENT Unit must be from the same manufacturer. 	
3	Pure Tone Audiometer	 Large backlight graphical LCD display Input voltage 220v,50Hz True two channels include microphone, assistant phone Automatic data transfer to computer and data printer Test signals: pure, pulse, warble tone, narrow band, white. Speech masking noise. Tone test HL, UCL, Aided (free field). Speech test.SRT,WRS,UCL. Over threshold tests: SISI,Decay,ABLB,MLB,stranger. Inputs: CD/Tape, stereo live speech microphone, external masking, patient microphone, patient response switch. Air conduction range: -10db to 120dBHL or better on either side, include headphone Bone conduction range: -10db to 70/75 db or better. Speech: 10db to 100dbHL. Masking: -10db to 100dbHL. Masking: Free as well as synchronized masking High tone audiometry for AC to BC 130 hz - 8 kHz or better on either side Free field range: -10 to 90 dB or better on either side, at 1m distance include speaker 120 dB. Selectable range of Test frequencies. Accessories: Air conduction head set. 	
		 Bone conduction head set Patient response switch Micro phone. 	
4	Mastoid Surgery with drill with all size burrs	High speed electronic mastoid drill Drill speed: 40000 -100000 rpm With control unit and cable. Single or double foot switches control With intra drill straight hand piece Intra drill angled hand piece.	

		3. Standard straight shaft burr sizes 006-070,length7cm,set of 15
		4. Tungsten corbite straight shaft burr, stainless size 006-070, length 7 cm set of
		15.
		5. Tungsten corbite straight shaft burr with course cut, stainless size 014-060,
		length 7 cm set of 6. 6. Diamond straight shaft burr stainless size 006-070,length 7cm set of 15
		7. Rapid Diamond Straight Burr, stainless, with coarse diamond coating for
		precise drilling and abrasion without hand pressure and generating minimal
		heat, sizes 023-070, length 7 cm, set of 9 color code: gold.
		White cold light illumination LED with 7100 Lux.
5	Head Light with Cool	• With 5500 Kelvin.
	Illumination	 Adjustable headband with washable inner padding.
		On / off switch on battery compartment.
		Charger jack for plug in charger.
		Supplied with 4 rechargeable batteries.
	D:	Operating Laryngoscope, with extra light handle, large size, length 17 cm or
6	Direct Micro	better, with connector for light Carrier.
	Laryngoscope Set	Straight Forward Telescope Odegree enlarged view, diameter 4mm, length 18 am or better outcology bla fibra articlisht transmission.
		 18 cm or better, autoclavable, fiber optic light transmission. Operating Laryngoscope, for adults, medium, length 18 cm or better (for
		anterior commissural).
		Operating Laryngoscope, child size, length 15 cm or better
		Telescope protection tube, 5.0 mm, length 20 cm or better, for use of light
		carrier.
		Clip, short, for proximal illumination
		Fiber Optic Light Carrier, for distal illumination, working length 14 cm or
		better, for use with Laryngoscopes and Divert iculoscopes
		Fiber Optic Light Carrier, for use with Laryngoscopes
		Laryngoscopes holder, with wide angle adjustment consisting of:
		Holder with wheel support rod.
		Forceps, straight, with 2 mm or better cupped jaws, with cleaning
		• Forceps, straight, with 2 mm or better cupped jaws, with cleaning connector, working length 23 cm or better
		 Insert able Suction Tube, for use with laryngoscopes.
		• Forceps, curved upwards, with 2 mm or better cupped jaws, with cleaning
		connector, working length 23 cm or better
		Miniature Forceps, straight, with 1 mm cupped jaws, sheath conically
		reinforced from distal to proximal end, with cleaning connector, working
		length 23 cm or better
		• Forceps, curved to right, with 2 mm or better cupped jaws, with cleaning
		connector, working length 23 cm or better • Scissors, straight, with cleaning connector, working length
		23 cm or better
		Micro forceps, straight, with 1 mm or better cupped jaws, with cleaning
		connector, working length 20 cm or better
		• Spoon Forceps, with cupped jaws, diameter 5 mm or better,
		robust model, double action jaws, sheath diameter 2.5 mm or better, with
		cleaning connector, working length 23 cm or better
		Forceps, for a traumatic retraction of true vocal cords, distal end with blunt
		curved blades, self-retaining, with retched and cleaning connector,
		working length 24 cm or better Ministure Forces curved unwards with 1 mm or better cupped jaws
		 Miniature Forceps, curved upwards, with 1 mm or better cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning
		connector, working length 23 cm or better
		• Suction Tube, outer diameter 3 mm or better, working length 23 cm or
		better
		Miniature Grasping Forceps, straight, serrated, sheath conically reinforced
		from distal to proximal end, with cleaning connector, working length 23 cm
		or better
		Grasping Forceps, delicate, serrated, special matt finish, with cleaning connector working length 22 cm or better.
		 connector, working length 22 cm or better Sickle Knife, curved, delicate, 3 mm to 1 mm tapered shaft, total length 23
		cm or better
		• Suction Tube, outer diameter 2 mm or better, working length
		23 cm or better
		• Suction and coagulation Cannula, outer diameter 3 mm, working length 26
	•	

cm or better, for use with unipolar High Frequency Cords • High Pressure Syringe, for viscous fluid injection Consisting of: High Pressure Handle, for use with Syringe Holder adaptor, for injection of viscous fluid, for filling, plastic syringe (package of 3) Plastic Syringe, 1 ml, for single use, (Package of 100) Syringe Holder, for plastic syringe, (Package of 3) Injection Cannula, Lock outer Diameter of syringe 1.3 mm, Inner diameter 0.7 mm, working length 23 cm, Package of 3 • Cold Light Fountain HALOGEN or equivalent with automatic switch-in spare lamp, • Light source must be compatible with the equipment and from the same manufacturer • Power Supply: 220 VACS, 50Hz. • Power card ii) fiber optic cable length 180 cm or better

Category: Orthopedic Equipment

Second Commence Specification	Qty
piece. Speed and torque variable with different attachment gear system. Twist Lock quick change attachment Progressive Trigger Action Canulations 4 to 5mm Chuck with Key Attachment ¼ Jacobs Chuck Size ¼ (4 to 6.35mm) Fully Canulated to 4to 5.1mm Maximum Speed 900 to 1250 rpm or better Attachment 4.0 mm Jacob Chuck Size 5/32 (4.0mm) Fully Canulated Quick Coupling Chuck AO Small attachment Stainless Steel Canulations 2 to 3.25mm AO Large attachment Stainless Steel Canulations 2 to 3.25mm Hudson Reaming Adaptor 5:1 Hudson Reamer Attachment Stainless Steel 4.0 mm or better Canulations 5:1 Large AO Reamer Attachment Stainless Steel 4.0 mm or better Canulations 5:1 Reamer attachment Wire Driver Wire Driver Wire Driver Wire Driver Wire Driver Attachment Canulations, St. to 4 mm diameter Maximum Speed 900 to 12500 rpm or better Pin Driver Pin driver attachment Maximum Speed 1250 rpm or better Pin Driver Pin driver attachment Maximum Speed 1250 rpm or better Pneumatic Oscillating Saw Operate-able in different positions Speed Variable 0-14000 rpm or better Pneumatic Oscillating St Oscil Blade 13.5 x 64 x.6mm, Box of5 St Oscil Blade 171mx 19.5mm x 8mm, Box of5 St Oscil Blade 171mx 19.5mm x 8mm, Box of5 St Oscil Blade 171mx 19.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 171mx 18.5mm x 8mm, Box of5 St Oscil Blade 175 mm x 8mm, Box of5 St Oscil Blade 19.5mm x 8mm, Sox of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.4mm, Box of5 St Oscil Blade 19.5mm x 8mm x 0.	
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• AO Large attachment Stainless Steel • Cannulations2 to 3.25mm • Hudson Reaming Adaptor • 5:1 Hudson Reamer Attachment Stainless Steel • 4.0 mm or better Cannulations • 5:1 Large AO Reamer Attachment Stainless Steel • 4.0 mm or better Cannulations • 5:1 Reamer attachment • Wire Driver • Wire Driver • Wire Driver Attachment • Cannulations.8 to 4 mm diameter • Maximum Speed 900 to 12500 rpm or better • Pin Driver • Pin driver attachment • Maximum Speed 1250 rpm or better • Pin Driver • Pin driver attachment • Maximum Speed 1250 rpm or better • Pneumatic Oscillating Saw • Operate-able in different positions • Speed Variable 0-14000 rpm or better • Blade Oscillation Are 4degree • Saw Blade for Oscillating • St Oscil Blade 13.5 x 64 x.6mm, Box of5 • St Oscil Blade 71mm x 19.5mm x 1.2, Box of5 • St Oscil Blade 71mm x 19.5mm x 8mm, Box of5 • St Oscil Blade 71 mm x 19.5mm x 8mm, Box of5 • St Oscil Blade 15.5mm x 8mm x 0.4mm, Box of5 • St Oscil Blade 15.5mm x 8mm x 0.4mm, Box of5 • St Oscil Blade 8.5mm x 38mm x 0.4mm, Box of5 • St Oscil Blade 8.5mm x 38mm x 0.4mm, Box of5 • St Oscil Blade 9.5 x 30 x 0.64, 0.84mm, Box of5 • Leg Bone Osc Blade 9.5 x 30 x 0.64, 0.84mm, Box of5 • Leg Bone Osc Blade 9.5 x 30 x 0.64, 0.84mm, Box of5 • Universal House, 10° • Nitrogen Regulator Single Connection	
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Nitrogen Regulator Single Connection	
Pressure Sentinel I/M Reamers for Hand And Power	
Can be operated at forward and reverse mode Output Description:	
Size 6mm to 19mm Individual consolidation and callidate for	
Individual complete reversible with tip and solid shaft Then the formal recogning.	
T-handle for hand reaming Starilization container	
 Sterilization container Complete with Air hose connector, cylinder (Full Size) and pressure regulator. 	
2 Fracture Operation Table • General Design	
with Ortho Traction • General Design • Stable base construction with four castors for easy movement.	
Attachment Manual base brake, lateral tilt and Trendelenburg adjusted by hand crank,	
base cover, side rails, accessories & clamps made of stainless steel.	
Table Top	
Divided into 5 sections including head plate, back plate, seat plate and split	
leg plates. Table top elevation controlled by hydraulic system, with sliding	

degree rotation. With side rails for the insertion of X-Ray casestres (must equipped with acytic sheet plates for X-ray radiography). Length 190-200 cm or better Width 50-em or better em Temdelsenburg, Reverse Trendelschamtys-20°/30°cach Lateral Tit Left-Right 2°-20°cach Lateral Tit Left-Ri			table top 30 cm or more for unrestricted image intensifier access with 360
Length 190-200 cm or better			degree rotation. With side rails for the insertion of X-Ray cassettes (must
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cassete holder tray for radiography			

		• Orbital rotation should have 90/30° or better
		Horizontal travel 20cm or more
		Vertical travel 45 cm or more
		• Swinging <u>+</u> 12.° or better
		• C-arm rotation $\pm 180^{\circ}$ or better
		Power Requirement:
		• 220VAC, 50Hz
		Accessorires for Protection:
		3 Apron lead thicknees 0.5mm
		2 Thyriod shieldlead thicknees 0.5mm
		With servo motor stablizer control voltage between 150V to 280V and provde
		constant output voltage 220V, 50Hz
		General Design
5	Spica table.	 Stable base construction with four castors for easy movement.
		Manual base brake, lateral tilt and Trendelenburg adjusted by hand crank, base
		cover, side rails, accessories & clamps made of stainless steel.
		Table Top
		Divided into 5 sections including head plate, back plate, seat plate and split leg
		plates. Table top elevation controlled by hydraulic system, with sliding table top
		30 cm or more for unrestricted image intensifier access, with side rails for the
		insertion of X-Ray cassettes (must equipped with acrylic sheet plates for X-ray
		radiography).
		• Length 190-200cm or better
		• Width 50cm or better
		Height 75-95 cm or better
		• Trendenburg/ Reverse Trendenburg +20°/30°each
		• Lateral Tilt Left/Right 2°/20°each
		• Head plate $+40^{\circ}/-40^{\circ}$
		Standard Accessories:
		 Mattress set. Pair of arm rest with quick is-connectable clamps.
		Designed for easy installation and removal.
		 Adjustable head rest. Pair of shoulder supports.
		Lithotomy pole with universal swivel clamps.
		Anesthesia frame1 each
		• Infusion rod 1 each
		• Foot rests 2 each.
		• Side supports 2 each
		With inbuilt Kidney Elevator Facility.
		Foot Rests
		Side supports
		Technical Specification:
		Brake pedal
		Elevation crank
		Horizontal angle lock handle
		Rotation "Z" type angle
		Leg supporter and HIP supporter
		Traction stopper with mattress
		Caster with break device
		Vertical elevator lock handle
		Traction crank
		Reaction foot boot.
		The HIP supporting sheets are made by Bakelite sheet, with mattress for
		radiography and image intensification procedures.
		The HIP supporting sheet can be rotated 360d and the angle can be rotted 360d
		and elevation 300mm.
		The tractor range is 200mm and elevation range 200mm

Category: Neonatology Equipment

S#	Nomenclature	Specification	Qty
1	Baby Incubator	 Incubator to have a large double Plexiglas hood with excellent dual viewing panels mobile on lockable castors. 	
1	Baby fileabator	 Temperature range: 34 to 37 degree C. 	
		 Temperature range. 54 to 57 degree C. To have an integrated sensor module to collect air and skin temperatures, 	
		oxygen, humidity and pass this information to the display.	
		 The sensor module to have a visual alarm to complement the controller 	
		alarm.	
		The mattress base to be contoured, x-ray translucent.	
		• To be able to tilt ± 10 degrees.	
		The hood to have four doors, two on either side or one 'iris'. Openings	
		with 4 tubing access ports.	
		The unit to have the temperature, oxygen level and humidity to preset levels.	
		• To have an alarm for all of these parameters with a low initial alarm intensity to	
		avoid undue disturbance.	
		 Oxygen to be able to be calibrated from 25% to 100%, 	
		 The humidity module to be front loading and to need filling daily. 	
		• The mattress tilts control to be knobs on the base.	
		Noise should be less than 50dbi.	
		Monitoring shelf,	
		Telescopic IV stand.	
		Cylinder holder	
		Ventilator tube support	
		Flexible positioning	
2	Phototherapy Unit	• LED type	
		• Luminosity: More than 4,300 lux at a distance of 40cm	
		• Irradiation timer :LCD 6-digit or more 0 ~99999.9hr; Patient timer	
		Inclination angle: Freely adjustable from horizontal to vertical	
		• Placement: Directly on the incubator /beds.	
		• Power requirements: 220 V, 50Hz;	
		Accessories: Eye Cover	
2	T. C XXI	Mobile infant warmer with integrated baby bassinet unit that	
3	Infant Warmers	Accommodates use of resuscitation equipment for intensive care of neonate.	
	(Radiant Warmer)	<u>Technical Specification: -</u>	
		 Infant warmer system to provide controlled source of radiant heat for infant. 	
		Dual Temperature Control (Skin and Cot)	
		• Heater output up to 750Watt at maximum power setting.	
		Temperature Adjustment:	
		• Skin Temperature adjustment: 34°c ~ 37°c,	
		• Bed temperature adjustment: 20°c ~ 37°c, Steps 0.1°c	
		Microprocessor controlled skin servo mode operation with digital	
		display	
		Digital display for Infant Temperature Angen goors facility.	
		Apgar score facility Audible and visual alarms and automatic switch off if temperature reaches at	
		 Audible and visual alarms and automatic switch off if temperature reaches at 38°c. 	
		Built-in examination light	
		Built-in examination light Built-in air/gas driven venture suction system	
		Tilting large bed platform suitable for x-ray cassettes, with cassette holder.	
		 Bed with mattress that is tiltable and having Trendelenburg and reverse 	
		Trendelenburg position.	
		Accessible from all sides with acrylic collapsible side panels	
		 Trolley with 4 Lockable castors. 	
		Power Requirement: 220~V, 50Hz	
		Accessories	
		Complete infant resuscitation package with mounting bracket (resuscitation)	
		• Complete infant resuscitation package with mounting bracket (resuscitation module, flow meter, infant suction unit, suction regulator, suction	
	1	bottle/400ml, positive pressure resuscitation, air hose, and oxygen cylinder	
		medium size).	

		Performance : suction controlled0-25mmHg
4	Baby Suction	• Input voltage 220v, 50HZ
	Machine	• Controls : On/Off switch
		Safety : positive pressure restricted
		• With filter.
		• Complete with autoclave able receiver jar 2x2000 ml
		• Foot switch: 1 No
		• Suction tip: 1 No
		• Ground cable: 1 No
		• Suction pipe 2m with hose.
		Mobile on four antistatic castors
		With the over flow safety

Category: Ophthalmology Equipment

S#	Nomenclature	Specification	Qty
		Ophthalmic ultra sound for A -scan biometry, B -scan with pachymoetry	
1	B. Scan	B-mode:	
		 Gain adjustable 20 -110db or better on either side. 	
		• TGC 0-30db or better.	
		 Dynamic range 25 – 80db or better on either side. 	
		• Probe: 10 MHz or better.	
		• Scanning angle: 30 to 60 degree or better.	
		• Focal distance: 15 – 262 mm.	
		Biomatry:	
		• <u>Probe</u> 10 MHz or better.	
		• <u>Depth</u> 1 - 50 or better.	
		 Operating modes cataract, aphakic, phokic and manual. 	
		 Calculation: SRK, SRK II, HOLLADAY, SRK/T., HOOFER-Q, POST 	
		REFRACTIVE ,HAIGIS.	
		PACHYMATRY:	
		• PROB <u>:</u> 50Mhz	
		 Measurement range: 110 -1500 micro meters or better on either side. 	
		Operating mode: auto/manual.	
		Maps: automatic, continuous, scanning and more if any.	
		A scan:	
		Probe: 8Mhz or better. What a second a sec	
		With amplification curve, test and calibration.	
		Wild III 1 1 2	
		With High density scanning sectors	
		• With Aviel length messagements and IOI newer seleviations	
		With Axial length measurements and IOL power calculations.	
		 Measurement accuracy for dense cataract and existing hazy media improved by pressing dense cat switch and gate select switch. 	
		Easy data transfer.	
		With integral or external printer (in case of external printer brand model must be	
		mentioned).	
		• 15" or better color touch screen monitor.	
		Time gain suspension. '	
		Image line real time replay function.	
		• With A, B, B+A, B+B features.	
		Perkins application tonometer with two prisms and weights complete in case.	
2	Tonometer		
_		Phaco Emulsification Machine having facility of anterior viteractomy and wet	
3	Phaco Emulsification	bipolar cautery.	
	Machine having facility of	FEATURS	
	interior vitrectomy and wet bipolar cautery.	Gravity fed fluid delivery Sections assisting assess to a section of the se	
	wet dipotal cautery.	Suction: aspiration pump type Single or group bla (white)	
		• Single or reusable tubing	
		• Vacuum range: 5-500 mmHg	
		• Flow rate: 2-50cc/minute	
		Rise time: 25 level in US mode Control Board on linear control with fact which facilities.	
		Control: Panel are linear control with foot switch facility	
		Operating frequency:40KHz	
		Operating modes: single, continues or multiple bursts	
		Hand piece: Piezo Electric Hand piece	
		Control: Panel or linear switch control by foot switch facility	
		Tips and sleeves range: wide range of tips and sleeves. Vitors of any.	
		Viteractomy	
		Cutter type: Guillotine cutters	
		 Cutter type: Guinothic cutters Cutting range: single or repetitive. 	
		 Cutting range: single of repetitive. Control: Panel or linear cut rate control by foot switch 	
		- Control. Tailer of finear cut face control by foot switch	
1	i		Ī

		Diathormy
		<u>Diathermy</u>
		Bipolar type,
		Control: Panel or liner control by foot switch technique
		• Hand piece 02 Nos
		• Standard size tip 30"- 10 Nos.
		45"- 05Nos.
		• Double liner foot switch: 01No.
		• Phaco tip wrench - 01No.
		• Drainage bag- 05Nos.
		 Irrigation/aspiration tubing sets 06 Nos. Test Chamber - 10 Nos.
		• Sleeves – 10 Nos.
		• Standard anterior vitrectomy cutters – 10Nos.
		• Sterilization trolley – 2 Nos.
		• Diathermy wet bipolar cautery cable – 2Nos.
		• Diathermy Forceps – 2 Nos.
		Original Trolley/and or original council from the same manufactures.
		 Voltage corrector/stabilizer or appropriate ratings meeting input and output voltage and frequencies.
		 Comprehensive training for staff and support services of familiarity with the system.
		User/Technical/Maintenance manuals to be provided in English. The unit shall be capable of being stored at ambient
		Temperature and humidity.
4	Auto Refractor with	Technical Specification: Perfection recognition:
4	Karatometer	 Refraction measurement, Sphere -30 TO 22D OR better (VD 10mm) (0.01/0.12/0.25D step).
		 Cylinder 0 to ±10D or better (0.01 / 0.12 / 0.25D step).
		• Axis Angle 0 to 180° or better (1° step).
		Measurement of Corneal Radius:
		• Curvature radius5.0-10.0mm or better (0.01mm step).
		 Cylindrical power 0-±10D or better. Axis Angle 0-180 degree (1 degree step or better).
		 Pupil diameter measurement range: Ø 2.0mm – Ø 8.5mm or better.
		• Vertex distance: 0, 10, 12, 13.5, 15mm or better.
		• PD Measurement range 0-85 mm (1mm step)
		• Auto start. Auto Focus / auto track. Printer.
		• In built Thermal Printer with automatic cutter (width 57 mm)
		 LCD display: color 5.7 Inch or better. Movable Distance. Back / Forth ±17 mm
		 Movable Distance. Back / Forth ±1 / mm Right / Left ± 43mm up / down ± 17mm.
		• Chin rest. ± 25 mm or better.
		Output. Rs 232 C interface.
		• Power saves: OFF, 3, 5, 10 min
		• (Selectable) Standard Accessories: Test eye; 1No.
		 Printer paper: 3 Rolls: Chin rest Paper: 1 packs (1000 sheets). Chin rest pin: 2 No.
		• Dust Cover: 1 No.
		• Contact lens holder: 1 No.
-	Oparating Microscope	Operation manual. A5 degree inclined binecular tube with converging entires.
5	Operating Microscope	 45 degree inclined binocular tube with converging optics Paired eye pieces 12.5 xs.
		 Built in three step magnification changer.
		 Motorized fine focusing with foot control.
		Objective f=175mm.
		 Coaxial fiber optic illumination system with variable light intensity control.
		• Light intensity: 80000 lux or better
		Standby lamp assembly. Heat proof, cobalt blue and green filters.
		 Heat proof, cobalt blue and green filters. Mobile floor stand with height adjustment through counter balanced arm.
<u> </u>		Moone noor stand with neight adjustment anough counter balanced arm.

6	Indirect Ophthalmoscope	Diskus for 1965 and a second second
0	indirect Ophthalmoscope	Brightness for difficult examinations Little 12000 In the second s
		• Light intensity: 2000 lux or better.
		With light intensity control.
		Headband: Light weight and comfortable.
		Single control to change aperture size and position in one movement to view
		through all pupil sizes.
		Inbuilt IR and UV barrier.
		With 20D Lens 01No
7	Refraction Box	• 35-Pairs-204 PCS and Universal Frame in Wooden carrying case.
		Spheres: $\pm 0.12 \text{ to} \pm 20.00$
		• Cylinders: ± 0.25 to ± 3.00
		• Firms: ½ to6
		 Auxiliaries: Blue, Red, Green, Brown, Plane (2pcs)-glass.
		• Occluder, Pinhole 0.5, 1.0, 1.5mm – leach Slit Disc0.5, 1.0mm-
		leach.
8	Slit Lamp	Galilean-Type Binocular Microscope.
		Magnification Changer: Continuous Zoom by drum rotation.
		Total magnification range: x5 to x30 or better.
		• Field of view: 8mm-22mm or better on either side.
		Papillary Adjustment: 48-78mm or better.
		Focus Distance: 100mm or more.
		Diopter Adjustment: ±/-6D.
		Slit illumination:
		Slit Width: 0-10 mm or more.
		 Aperture Diameter: 0, 3, 6, 5, 10,14mm.
		Slit Length:0-14mm.
		• Slit Rotation:±/-90 ⁰ .
		Base:
		Vertical Movement: 30mm or more.
		Longitudinal Movement: 70mm or more.
		Lateral Movement: 110mm or more.
		• Fine Base Movement: ±/-10mm.
		• Input Voltage: 240V, 50Hz.
		Chin rest:
		Vertical Movement: 75 mm or more.
<u> </u>		Totalean more more. 75 mm of more.

CATEGORY: BEDING CLOTHING

Selection will be Subject on sample

S#	Name of Item	Specification	Qty
1	Mattress Foam with	Size: 6 ½' x 3' x 4'' with Raxine cover, good quality Branded	
	Raxine Cover		
2	Blanket	Best quality, camel color,size:60" x90"	
3	Bed Sheet	Made of best quality cotton ,single standard size: - 60" x 100" Color: White	
4	Pillow with cover	Standard size of best quality polythene Size: 24"x 15"	
		Along with pillow cover: Size: 26" x 17", White Latha	
5	OT Gown	Operation Gown Markeen Cloth, size: Small, Medium and Large	
6	OT Caps	Made of best quality, Color: Green	
7	OT Sheet	Made of best quality, Color: Green	
8	OT Shoes	Made of best quality, Slipper plastic leather.	
9	Table cover large	Made of best quality, Size: 54" x 72"	
10	Table cover small	Made of best quality, Size: 48" x 54"	

<u>Category: General Items</u> <u>Selection will be on sample</u>

S#	Nomenclature	Specification	Qty
1	AC 1.5 tones Split unit	 Branded, Good Quality, 18000 BTU, inverter type with copper pipe, 	
	inverter type with 10 KVA	mounting brackets and installation. Brand and models of both the outdoor	
	stabilizer (copper winded)	and indoor units must be mentioned	
2	AC 1.5 tones Split unit	 Branded, Good Quality, 18000 BTU with copper pipe, mounting brackets 	
	with 10 KVA stabilizer	and installation. Brand and models of both the outdoor and indoor units	
	(copper winded)	must be mentioned	
3	AC 2 tones split unit	Branded, Good Quality , 24000 BTU, inverter type	
	inverter type with 10 KVA	With copper pipe, mounting brackets and installation. Brand and	
	stabilizer (copper winded)	models of both the outdoor and indoor units must be mentioned	
4	AC 2 tones split unit	Branded, Good Quality , 24000BTU	
	with 10 KVA stabilizer	 With copper pipe, mounting brackets and installation. Brand and 	
	(copper winded)	models of both the outdoor and indoor units must be mentioned	
5	AC Split 01 Ton split unit	Branded, Good Quality, 12000 BTU, inverter type	
	inverter type with 10 KVA	With copper pipe, mounting brackets and installation. Brand and	
	stabilizer (copper winded)	models of both the outdoor and indoor units must be mentioned	
6	AC Split 01 Ton split	Branded, Good Quality, 12000BTU	
	unit with 10 KVA	 With copper pipe, mounting brackets and installation. Brand and 	
	stabilizer (copper	models of both the outdoor and indoor units must be mentioned	
7	winded)		
7	Deep Freezer	Good Quality, branded, double door (freezer &fridge) with racks &baskets	
8	Geysers 250 litres	Geysers 250 liters with cone, branded local, OT 31	
	OT Shoes (Pairs)	OT Shoes (Pairs) rubber Part of the Control o	
10	Refrigerator 14 Cft	Double door,14 Cft– Branded, Good Quality	
11	Refrigerators 12 CFT	Double door, 12 CFT – Branded, Good Quality	
12	Refrigerators 18 Cft	Double door, 18 Cft– Branded, Good Quality	
13	Electric Water Cooler	Electric Water 55 gallons SS Tank to be installed with 3 part	
		Filtration unit, branded.	
14	Cupboard Steel Large	18 gauge steel powder coated with shelves on one side and hanging unit on one	
		side. Size 4 ftx 6 ftx 2 ft(W x H x D)	
		Sample to be approved	
_		18 gauge steel, filing cabinet with three drawers each 450mm height with	
15	File Cabinets Steel	railing handles, locks and 100mm high pedestal as shown in the drawing,	
		Including power coating with good surface finish	
		• Size 400 x 750mm x 1400mmHigh	
		• Large storage capacity on 12 adjustable shelves, each size 435 x250 mm.	
17	Steel Racks for Medicine	The cupboard to have an internal height of 1720mm	
		Security achieved by 2 heavy-duty locks, securing on the central partition.	

		Capacity-5 KVA
20	UPS 4000 watts with	Input Voltage-230V AC, Single Phase,
	battery	Input Voltage Range-160V AC to 270 V AC
		Input Frequency Range – 45 to 55Hz
		Input Over Voltage Protection-280V AC
		Input under Voltage Protection-155V AC Over
		Voltage cut off facility
		Frequency-50 Hz+-1%
		DC output voltage 24 volts
		Input & output voltage indicators Re-
		charging alarm
		Along with 02 branded batteries, 12 volts, 200 Ah each Complete with
		installation.
21		
21	AIR PURIFICATION	Automatic air purification system Air purification system for the removal of heateric virgos and cases from
	SYSTEM	 Air purification system for the removal of bacteria, viruses, and gases from indoor areas of hospitals, OT/ICU and Wards.
		Air Cleaning capacity 2000 Cubic feet per hour or more
		Should have filter less technology
		Minimum particle removal size 0.001 um or less.
		• Cleaning efficiency 99.99 % or more.
		Sound level 46 dB or less.
		Unit should be wall mounted type
		• Input Power 220VAC, 50Hz

Category: Dental Equipment

S#	Nomenclature	Specification	Qty
1	Electric Amalgamator	 Microprocessor controlled Touch pad controls LED Display Programmable preset memories Spring tensions, molded capsule holder Timer 1-30seconds Cycle speed 4200 CPM - 3600CPM Sealed mix area Accept salt types of capsules including amalgam and ionomer. Power requirements: 220 volts,50. 	
2	Electric cautery (Dental)	 3 different and separate operating functions: 1-purecut 2-cut-coag 3-pure coag Maximum safety for the patient and The electrosurgical units supplied complete accessories: Hand piece, 8 electrodes and ground plate autoclavable. Voltage: 220 V 50. Power output at 750 KHz on 1500W 	
3	Dental Unit with Chair	Comprising of:- Dental Unit Chair mounted fully motorized and electrically operated. Air turbine high speed, 3 spray system branded (model must be mentioned) Air motor (3 in1) slow speed with contra angle attachment branded (model must be mentioned) Triple syringe branded Scalar Piezzo type,(model must be mentioned) Dental Light: Automatic Cup filler X-ray film viewer Stainless steel instrument Tray with S.S lid. Cotton holder Waste receptacle Oil free branded compressor (model must be mentioned) with tank and regulator. Motor;1.5 HP Output;100L/min Pressure;5-8 Bars Tank capasity;25 L Assistant Unit:- Cuspidor bowel with flush system (spittoon) Saliva ejector High Power Suction system (Air operated) Triple Syringe Dental Chair: Fully automatic motorized Hydraulic chair electrically Operated, 5 or more positions, operated on 220V / 50Hz Motorized motion to raise / lower the seat and back by electro- hydraulic System. Automatic Back to Zero Position. Equipped with safety cut out device Adjustable head rest forward/ backward and up /down movements Right arm swings in / out for patient ease. Chair movement is smooth and silent through solenoid valves. Dental Light: Day light Shadow less dental light. The light arm is well balanced and adjustable to different heights with variable horizontal and inverse movements. Doctor's Tray:	

		 Moveable over the patient through swing in / out on flexible self-supporting balance arm. Instrument tray covered with stainless steel lid. Availability of 4-tubings (Borden 2 holes) Cotton holder and waist receptacle. Water on / off Toggle switch and flow control Air / water regulator for hand pieces and triple syringe. Air pressure gauge. X-ray viewer. Cuspidor unit: Water outlet services with junction / utility box. Equipped with automatic and manual cup filler. Single piece spittoon with solid collector Bowls flush automatic and manual. Triple syringe, Saliva ejector High power suction (Air operated) Dentist + Assistant Stool: Gas operated Seat with Shock absorbing. Adjustable at any height bylever control. Anatomically designed back rest for maximum lumber support. Seat with back rest rotatable freely 360deg. Mobile on 5-castor for smooth movement With foot supporting facility. 	
4	Dental X-ray Unit	 Dental radiographic unit. Current: 7mA intra-oral x-ray system. Maximum voltage: 65KV or better. The Unit shall be mounted on a stand having 360° horizontal rotation. Also the multiplex arm (Imported) has a variety of vertical movements. Mobile on castors. FOV: 0.8 or less 	
5	Mini Autoclave automatic	 Capacity 12 liters or more (Bench top) Microprocessor controlled digital display Automatic functioning Pre and post fractionated vacuum. Thermal drying system Sterilization temperature:121°c to134°c With demineralizer (Brand, model and make must be mentioned) 	

Category: Dental Instruments

Selection will be on sample

Note: All instruments must be stainless steel. All die made with hidden joints and leak proof. Manufacturer mark must be present on each instrument

S#	Nomenclature	Specification	Qty
1	Amalgam gum (filling)	All die made with hidden joints and leakproof.	
2	Amalgam plugger	Manufacturer's mark must be indicated on all instruments.	
3	Amalgam plugger (filling)		
4	Anesthesia Cartridges (Box of 50)		
5	Artery forceps strength	For all instruments made of stainless steel.	
6	Baby forceps & lowers	All die made with hidden joints and leak proof.	
		Manufacturer's mark must be indicated on all instruments.	
7	Barbed broaches	All die made with hidden joints and leak proof.	
		Manufacturer's mark must be indicated on all instruments	
8	Bone cutter	• For all instruments made of stainless steel.	
		All die made with hidden joints and leak proof.	
		Manufacturer's mark must be indicated on all instruments.	
9	Bone H-Files	All die made with hidden joints and leak proof.	
10	Bone Rengeur	Manufacturer's mark must be indicated on all instruments	
11	BP Scalpel handle for blade	For all instruments made of stainless steel.	
10	15	All die made with hidden joints and leak proof.	
12	Bur for high speed turbine set of 12	Manufacturer's mark must be indicated on all instruments.	
13	Burnisher filling	All die made with hidden joints and leak proof.	
14	Cartridge Syringes with Aspirating facility	Manufacturer's mark must be indicated on all instruments	
15	Cement spatula		
16	Cheek retractor (Oral)	For all instruments made of stainless steel.	
17	Cotton drum for sterilization	All die made with hidden joints and leak proof.	
18	Curette	Manufacturer's mark must be indicated on all instruments.	
19	Dental Instrument complete	INSTRUMENT SET DENTAL SURGERY	
	Set	Basic instrument set for use in the dental surgery room.	
		Description	
		Probe single ended perio CPTN-C	
		Spatula double ended No 8	
		Spatula double ended No 3	
		Spatula double ended 8 x Alginate/Plaster metal Curved	
		Instrument for plastics	
		Excavator double ended 127/128	
		• Excavator double ended 131/132 tissue tweezers type Collage Fig 8 plain	
		• Carver Ward 2	
		Scalar balanced gripH4	
		Scalar balanced gripH5	
		Scalar balanced gripH7 Scalar balanced gripH0	
		Scalar balanced gripH9 Scalar balanced grip Towner L15	
		Scalar balanced grip Towner U15 Scalar balanced grip Jacquetta 2 Scalar	
		 Scalar balanced grip Jaquette 2 Scalar balanced grip Jaquette 3 	
		 balanced grip Jaquette 3 Scaler balanced grip H6/7 	
		Scaler Octagonal H4	
		Scaler Octagonal H5 Scaler Octagonal H5	
		Scaler Octagonal H6	
		Scaler Octagonal H8	
		Scaler Octagonal H9	
		Scaler OctagonalTownerU15	
		• Scaler Octagonal Jaquette 2	
		• Scaler Octagonal Jaquette3	
		• ScalerGracey Curette double ended ½	
		• ScalerGracey Curette double ended 3/4	

- ScalerGracey Curette double ended 5/6
- ScalerGracey Curette double ended 9/10
- ScalerGracey Curette double ended 13/14
- Scaler MacFarlane Balanced Tip MFO/1
- Scaler MacFarlane Balanced Tip MF2/3
- Scaler MacFarlane Balanced Tip MF4/5
- BurnisherDE AM (W) 1
- Burnisher DE AM (W) 1L
- Amalgam Plugger Blacks 0/1
- Amalgam Plugger Blacks 1/2
- Elevator Apical Straight
- Elevator Apical Left
- Elevator Apical Right
- Elevator Coupland 1
- Elevator Coupland 2
- Elevator Coupland 3
- Elevator Warwick James Straight
- Elevator Warwick James Left
- Elevator Warwick James Right
- Elevator Cryer 30 left
- Elevator Cryer 31 right
- Forceps Artery Spencer Wells 5" straight
- Forceps Artery Spencer Wells 5" curved
- Forceps Mosquito 5" straight
- Forceps Extraction Upper Incisor
- Forceps Extraction Upper Molars Right
- Forceps Extraction Upper Molars Left
- Forceps Extraction Lower Molars
- Forceps Extraction Lower Roots
- Forceps Extraction Small Lower Roots
- Forceps Extraction Lower Premolars
- Forceps Extraction Upper Roots
- Forceps Extraction Children Lower Teeth
- Forceps Extraction Children Lower Molars/General Forceps
- Extraction Children Upper Incisors/Canines Forceps
- Extraction Children Upper Molars
- Forceps Extraction Children Upper General
- Amalgam Plugger Blacks 0/1
- Luxation Kit
- Ceram color Probe No 6
- Margin Trimmer 15-11
- Placer Calcium Hydroxide 15-90
- Gingival Cord Packer Yardley 15-66-6
- Root Canal Spreader Heat Carrier Anterior Root
- Canal Spreader Heat Carrier Posterior
- Periosteal Elevator Prichard
- Periosteal Elevator Molt
- Periosteal Elevator Fine
- Periosteal Elevator Howard
- Forceps Tissue Sempkin-Taylor Straight 12.5cm
- Retractor tissue Austin
- Retractor Tongue and Cheek University of Minnesota
- Needle Holder Mayo Hegar 16cm
- Forceps Halsted Mosquito Curved 12cm
- Forceps Halsted Mosquito Straight 12cm
- Tray Dental Instrument Imperforated 28 x 18 cm
- Mirror Handles Round Stainless Steel
- Mirror Heads No 4 plane (12) Explorer single Ended EXS 6
- Explorer Single Ended EXS 6A
- Matrix System Intro
- Scissors Straight 5" Sharp/Sharp
- Scissors Straight Crown Bee Bee No 12
- Scissors Curved Crown Bee Bee No 9
- Syringe Dental Cartridge S/S 2.2 ml

		T	1
		Amalgam Carrier 5X Hampel	
		Complete Mortar & Pestle Glass 2 " Dia. But Glass 2 " Dia.	
		Dappen Dish Glass Clear Glass slab	
		Spatula mixing filling material	
20	Dental rabe double ended	Mixing Pad reusable Finally interpretation of striple sectors.	
20	Dental rabe double ended	For all instruments made of stainlesssteel.	
		All die made with hidden joints and leak proof.	
21	Dontal V Day dayslaning 6	Manufacturer's mark must be indicated on all instruments.	
21	Dental X-Ray developing & fixing material	All die made with hidden joints and leak proof.	
22)	Manufacturer's mark must be indicated on all instruments.	
22 23	Dental X-ray Hanger Diamond burs Air motor	For all instruments made of stainless steel.	
24	Diamond Burs for High	All die made with hidden joints and leak proof.	
24	Speed Tissue, Round tissue	Manufacturer's mark must be indicated on all instruments.	
	on inverted cone	Management & Mark Mast be indicated on an instruments.	
25	Elevator Angular Pair		
26	Elevator Cross Bars Pair		
27	Elevator Pair of Cryers		
28	Elevator Straight		
29	Endomate DT		
30	Engoaopntic box		
31	Examination Forceps		
	Lower Anterior		
32	Examination Forceps		
22	Lower BDR		
33	Examination Forceps		
	Lower		
24	Molar		
34	Examination Forceps Lower Pre-		
25	Molar		
35	Examination Forceps	For all instruments made of stainless steel.	
36	Upper Anterior Examination Forceps	All die made with hidden joints and leak proof	
30	Upper BDR		
37	Examination Forceps Upper		
0,	Pre-Molar	For all instruments made of stainless steel.	
		All die made with hidden joints and leak proof	
38	Examination instrument set	Manufacturer's mark must be indicated on all instruments.	
	like		
39	Examination Mirror		
40	Examination probe Upper		
	BDR		
41	Examination probe Upper		
	Molar		
42	Examination Tweezers		
43	Excavator		
44	Extraction forceps kit (Complete)		
	_		
45	Adult Extraction forceps kit	-	
43	(Complete)		
46	Paeds Extraction forceps Lower	-	
46	Extraction forceps Lower Extraction forceps Upper	-	
48	Extraction probe Upper	1	
49	Filling Instruments	1	
50	Filling material	1	
51	Flexo files (size 15-140)	1	
52	Gats Gliden Drills		
53	Glass slab	1	
54	Gummers Spatula		
55	GuttaPurchaCondensor		
56	Instruments holding		
	forceps		

5.7	T . 1 . 1		
57	Inter dental wedges		
	(plastic & wooden)		
58	Ivory type		
59	Ivory type retainer	For all instruments made of stainless steel or otherwise.	
60	k-filies size (15-140)	All die made with hidden joints and leak proof.	
61	Kidney tangs	 Manufacturer's mark must be indicated on all instruments. 	
62	Larex type retainer		
63	Legenback retractor		
64	Lower Incisors		
65	Lower Molar Right		
66	Lower pre-molar		
67	Lower root forceps		
68	Matrix retainer Ivory		
10	1&8		
69	Menox type		
70	Mortar & Pestle		
71	Mouth gauge		
72	Mouth mirrors with		
70	handle		
73	Mouth Prop		
74	Pair of Scissors		
75	Periosteal elevator (Oral)		
76	Pins & posts with all		
	accessories		
	(different sizes)		
77	Plastic Cellulose Strips		
78	plastic instruments		
	(filling)		
79	Polishing kit (for		
	amalgam &	For all instruments made of stainless steel or otherwise.	
	composite filling)	All die made with hidden joints and leak proof.	
0.0		Manufacturer's mark must be indicated on all instruments.	
80	Root canal plunger		
81	Small needle holder	 For all instruments made of stainless steel. 	
82	Smooth broaches	All die made with hidden joints and leak proof.	
83	Steel matrix bands	 Manufacturer's mark must be indicated on all instruments 	
0.4	(different sizes)	Translated 5 mark must be indicated on an instruments	
84	Tooth extraction forceps (full		
85	Set) Toothod dissorting		
83	Toothed dissecting forceps		
96	Upper Incisors		
86 87	Upper Molar left		
88	Upper Molar right		
89	Upper pre-molar left		
90			
90	Upper root forceps Water filter for Dental unit	• Fully motorized and algoritically appreted water filter for dental unit with	
		 Fully motorized and electrically operated water filter for dental unit with automatic Cup filler 	
92	Metazoan Bum Scissors	 For all instruments made of stainless steel. 	
	8-1/2"	 All die made with hidden joints and leak proof. 	
		 Manufacturer's mark must be indicated on all instruments 	

Category: Gynae/Obs

S#	Nomenclature	Specification	Qty
1	CTG Machine	 With LCD display, Fetus heart rate: 120-160bpm. Manual/auto recording Fetus movement. 	
		Sound and color alarm for high and low fetal heart rate	
		• Continuous 24 hrs real time monitoring function,	
		• 12 hrs patient curve and data storage,	
		With picture freeze function.	
		• Single, twins monitoring.	
		• 9 crystal board band pulsed wave transducer.	
		High resolution built in thermal recorder. Point in the state of	
		 Built in communication port, for connecting to the central monitoring system. 	
		• Voltage AC120V, 50Hz.	
		Output speed: 1 cm/min, 2cm/min, 3 cm/min.	
		• Data precision: +-5% (X roll), +-1 % (Y roll).	
		• Ultrasound Probe :	
		Nominal frequency: 1.0MHz.	
		• Work frequency: 1.0MHz+- 10%.	
		• Compatible with Two Probe (for twins).	
		 Complete with all accessories. 	
2	Sonic Aid Machine/Fetus	Fetal Heart Beat/Sound Detection & Rate Monitoring.	
	Heart Detector	Heart rate digitally displayed,	
		• Heart beat audible through the built-in speaker (earphone).	
		• Ultrasonic frequency/output: 2.5MHz,10mW/cm ²	
		• Audible output : 0.6W (Speaker output: Max.20W)	
		Heart rate detection range: 50-280bpm	
		Power requirements: Ni Cd reshare solds better 12V with AC resharing unit	
3	Gynae Vacuum Suction	 Ni Cd rechargeable battery12V with AC recharging unit. To be used in fetal vacuum extraction, 	
	Apparatus/vacuum extractor	 neonatal endotracheal amniotic fluid suction, 	
	with trolley	Surgical suction during operation and uterine aspiration for abortion	
		with super suction curettes.	
		• 2 Suction Bottles, each 3000cc.	
		Vacuum pressure 750mm Hg adjustable.	
		• Flow capacity: 45lit/min.	
		Automatic over flow cutoff. Explosion proof feet quitable.	
		Explosion proof foot switch.Tray for instruments	
		Rubber tube 2 meter	
		Curettes , large, Medium and Small	
		Mains input supply: 220 volts, 50Hz	
4	Delivery table/ D&C Table	• Couch top made of 3 sections i.e back, hip, leg sections covered with 4"	
		mattress with raxine cover.	
		 Leg section removable 	
		Up/down movement through hydraulic system.	
		Back seat adjustment through handles.	
		Removable receptacle under the hip area. Lith actors a releasible trians at time.	
		Lithortomy poles with tying strips. Hand grips on both the sides.	
		Hand grips on both the sides.Mobile on castors.	
<u> </u>		• MOUNT ON CASIOIS.	1

LIST OF SURGICAL INSTRUMETNS SETS

Note: All the instruments must be made of stainless steel. All die made with hi dden joints and leak proof. Manufacturers mark must be indicated on all instruments.

<u>Selection will be on samples</u>

S#	Name of the item	Specification		Qty
1.	General Instrument Set	1) InstrumentTray10x12	01	
		2) Towel clips	04	
		3) BP handleNo.4,3	02	
		4) Artery forceps 6" curved	06	
		5) Artery forceps6"straight	02	
		6) Sponge Holding forceps	02	
		7) Metzebaumscissors7.5"curved	01	
		8) Metzebaum straightscissors7.5"	01	
		9) Czerney retractors	02	
		10) Langenbeck Retractors	02	
		11) Needleholder7"	01	
		12) Tootheddissectingforceps:7"	01	
		13) Non-toothed dissectingforceps7"	01	
		14) Allis'forceps8"	04	
		15) kidney trayIlitter	01	
		16) kidney tray500ml	01	
		Along with Container	0.1	
2.	Ear Surgery Instrument Set	1. Plaster first incision Knife	01	
	with Operating Microscope	2. Rotary First incision Knife	01	
		3. Sickle Knife	01	
		4. Myringotomes	01	
		5. Aural Crocodile forceps Tilley's	01	
		6. Cawthorne Crocodile Scissors Straight	01	
		7. Cawthorne Crocodile Scissors Right	01	
		8. Cawthorne Crocodile Scissors Left	01	
		9. Frazier Suction Nozzles Nos.6.7.8	03	
		10. Micro Suction Nozzle	02	
		11. Cawthorne Hooks. Different Angles	03	
		12. Granulation Forceps Straight	01	
		13. Micro Ear Instruments Different	05	
		14. (Mobilizer, Measuring Rode, Curette, Eleva		
		Hartmann Crocodile Forceps Straight	01	
		15. Micro Hartmenn Crocodile Forceps Right	01	
		16. Micro Hartmenn Crocodile Forceps Left	01	
		17. Mollison Mastoid Retractor Adult	02	
		18. Mollison Mastoid Retractor Child	01	
		19. Micro Granulation Forceps Straight	01	
		20. Micro Granulation Forceps Right	01	
		21. Micro Granulation Forceps Left	01	
		22. Plaster Jenson Retractor Right	01	
		23. Plaster Jenson Retractor Left	01	
		24. Tumarkin Metal Ear Speculum Slotted	04	
		25. Cawthorne Periosteal Elevator	01	
		26. King Vein Graft Pressing Forceps	01	
		27. InstrumentsTray12"x14"	01	
		28. Needles Box	01	
		29. Mastoid Chisel	01	
3.	Rhinoplasty Set	Along with Container	01	+
٥.	Kilinopiasty Set	Alfrights Nasal Retractor Nasal Speculum	01	
		3. Straight S/w Artery forceps	01	
		4. Scissors Angle don flat	01	
		5. Ballinger Swivel knife	01	
		6. Septum nasal forceps right and left Valselu		
		forceps Str. (Ash)	m 02 Septum 01	
		7. Metzenboum Scissors Cvdonflat8"	01	
		8. Stoz nasal saws rightandleft	02	
		9. Padgett nasal rasp fine and heavy	03	
		Padgett nasal rasp fine and neavy Soseph nasal Respectory	03	
		10. Joseph hasai Kespectory	U1	

11. Joseph skin hoots			44 7 1 1 1 1	02
13. Healh Mallet.			11. Joseph skin hooks	03
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Forceps				
15. McIndow Non ToothedForceps6" 01 16. Mastrade's ToothedForceps6" 01 17. Adson Toothed Forceps Medium 01 18. Adson Toothed Forceps Medium 01 19. American pattern suction cannula 01 20. Vulkmann curete 01 21. Towel Clips 08 22. Marking pen 01 23. Inkpot 01 24. SMR Set 1. Freer Elevator 01 25. Ililian Nasal Gouge V-Shape 01 3. Hammer SS 01 03 4. Frazier Succión Nozzle No 9,10,12 03 5. Tilley's NasalDressingForceps1 01 6. Lac Turbinate Forceps Medlium 01 8. Killian NasalSpeculum 2: 01 9. Killian NasalSpeculum 2: 01 10. Killian NasalSpeculum 2: 01 11. Tilley's Thoras (ActumulabAo? 02 12. Tilley's Troors (ActumulabAo? 02 13. Tilley's Thoras (ActumulabAo? 02 14. Washam Septum Forceps 01 15. Telley's Hankle Forceps 01 16. Instruments Tray 01 17. Molty of Horizon (ActumulabAo? 02 18. Tilley's Hankle Forceps 01 19. Tonsillectomy Set 1. Boyle Davis Mouth Gag Set. (Set of S Blades). 01 Set 10. May Thoras (ActumulabAo? 02 12. Suspension Rods 03 13. Suspension Plate 04 14. Gwynne Evans Tonsil Dissector. 1 15. Mollison Anterior Plillar Retractor. 1 16. Waugh Tonsil Dissector. 1 17. Waugh Tonsil Dissectors 1 18. Negas Tonsil Artery Forceps Short Curve. 1 19. Negas Tonsil Artery Forceps Short Curve. 1 10. Tonsil Scissors Curved 7.5". 1 11. Tonsil Scissors Curved 7.5". 1 12. Lev's Tonsid Scissors Furb (Turve. 1 14. St. Clair Thomson Adenoid Currete With guard Large. 1 19. Negas Tonsil Artery Forceps Short Curve. 1 10. Tonsil Scissors Curve Related (Turte With guard Large. 1 12. Lev's Tonsid Scissors Sirve Packet. (Packet of 15Pes) 01 Pkt. 1 18. Pt. Handlehol. 1 19. Vankaur Succion Norzele. 1 10. Tonsil Scissors Surfeen Holder. 1 11. St. Clair Thomson Adenoid Currete With guard Large. 1 12. Lev's Tonsid Scissors Sirve Packet. (Packet of 15Pes) 01 Pkt			14. Set f MclandoeChisels5,7,9,11,15mm	01set Tillys Nasal
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17. Adson Totothed Forceps Medium 01 18. Adson Totothed Forceps Medium 01 19. American pattern suction cannula 01 20. Valkmann curette 01 21. Towel Clips 08 22. Marking pen 01 23. Inkpot 01 24. Allong with Container 01 25. Allifan Nasal Gouge V. Shape 01 3. Hammer SS 01 4. Frairer Staction Nozzle No 9,10,12 03 5. Tilley's NasalDressingForceps 01 6. Lue Turbinate Forceps Medium 01 8. Killian NasalSpeculum2" 01 9. Killian NasalSpeculum2" 01 10. Killian NasalSpeculum2" 01 11. Hayram's Turbinectomy Scissors 01 12. Tilley's Trocar &CannulaNo7 02 13. Tilley's Trocar &CannulaNo8 02 14. Washam Septum Forceps 01 15. Telley's Ilankle Forceps 01 16. Instruments Tray 01 17. Instruments Tray 01 18. Suspension Rods 01 19. Montainer 01 10. May Hore 01 11. Mayram's Instruments Tray 01 12. Tilley Strocar &CannulaNo8 02 13. Suspension Rods 01 14. Gwynne Fyans Tomai Dissector 1 15. Molision Auterior Pillar Retractor 1 16. Waugh Tonsil Dissector 1 17. Waugh Tonsil Dissector 1 18. Negus Tomail Arter Forceps I ong Curve 1 19. Negus Tomail Arter Forceps I ong Curve 1 10. Tonsil Scissors Cured 7.5" 1 11. Tonsil Scissors Fine Point Curved 7 12. Eve's Tonsil Stame 7 13. Tonsil Sname Wire Packet, (Packet of 15Pes) 1 14. St., Clair Thomson Adenoid Curette With guard Sanall. 1 15. St., Clair Thomson Adenoid Curette With guard Sanall. 1 16. Denis Brown Torsil Holding Forceps 1 17. Denis Brown Torsil Holding Forceps 1 18. B.P. Handlebor 1 19. Yankaur Suctein Nozzle 1 10. Cataract Surgery Set 1 11. Wire Speculum. 1 12. Leve's Tonsil Stame 1 13. Arragua's Superior Rectus Needle Holder 1 14. Micro Cornnel Forceps with Suture Tying 1 15. Liviersal Cornnel Scissors 1 16. His Repository Double Ended 1 17. Wire Vectus 1 18. Dept. Pr				01
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20. Valkmann curette				
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Along with Container				01
1. Freer Elevator			•	
2. Killian Nasal Gouge V-Shape	1	SMR Set		01
3. Hammer SS	٦.	SWIK Set		
4. Frazier Suction Nozzle No 9,10,12				
5. Tilley's NasalDressingForceps1. 01				
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9. Killian NasalSpeculum2.5" 01				
10. Killian NasalSpeculum3" 01 11. Hayman's Turbinectomy Scissors 01 12. Tilley's Trocar &CannulaNo7 02 13. Tilley's Trocar &CannulaNo8 02 14. Walsham Septum Forceps 01 15. Telley's Hankle Forceps 01 16. Instruments Tay 01 Along with Container 10 17. Tonsillectomy Set 1. Boyle Davis Mouth Gag Set. (Set of 5 Blades). 01 Set 2. Suspension Rods. 01Pair 3. Suspension Rods. 01Pair 3. Suspension Plate. 1 4. Gwynne Ewans Tonsil Dissector. 1 5. Mollison Anterior Pillar Retractor. 1 6. Waugh Tonsil Dissecting Forceps 1X2 Tooth 8".1 7. Waugh Tonsil Dissecting Forceps 1X2 Tooth 8".1 8. Negus Tonsil Artery Forceps Short Curve. 1 9. Negus Tonsil Artery Forceps Short Curve. 1 10. Tonsil Scissors Curved 7". 1 11. Tonsil Scissors Curved 7". 1 12. Eve's Tonsil Snare. 1 13. Tonsil Snare Wire Packet. (Packet of 15Pes) 01 Pkt. 14. St. Clair Thomson Adenoid Curette With guard Small. 1 15. St. Clair Thomson Adenoid Curette With guard Large. 1 16. Negus Pusher. 1 17. Denis Brown Tonsil Holding Forceps. 1 18. B.P. HandleNo.7. 1 19. Yankaur Suction Nozzle. 1 10. Instruments Tay 1 11. Micro Corneal Forceps with Suture Tying. 1 2. St. Clark's Self-Retraining Speculums. 1 3. Arragua's Superior Rectus Needle Holder. 1 4. Micro Corneal Forceps with Suture Tying. 1 5. Universal Corneal Scissors. 1 6. Iris Scissors StrCvd. 2 7. Micro Corneal Forceps With Suture Tying. 1 8. Iris Repository Double Ended. 1 9. Wire Vectus. 1 10. Cautery Point. 1 11. Spring Scissors Straight. 1				
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6. Cataract Surgery Set 1. Wire Speculum. 2. St. Clark's Self-Retraining Speculums. 3. Arragua's Superior Rectus Needle Holder. Breaker. 4. Micro Corneal Forceps with Suture Tying. 5. Universal Corneal Scissors. 6. Iris Scissors Str/Cvd. 7. Micro Corneal Needle Holder. 8. Iris Repository Double Ended. 9. Wire Vectus. 10. Cautery Point. 11. Spring Scissors Straight.				1
2. St. Clark's Self-Retraining Speculums. 3. Arragua's Superior Rectus Needle Holder. Breaker. 4. Micro Corneal Forceps with Suture Tying. 5. Universal Corneal Scissors. 6. Iris Scissors Str/Cvd. 7. Micro Corneal Needle Holder. 8. Iris Repository Double Ended. 9. Wire Vectus. 10. Cautery Point. 11. Spring Scissors Straight.	6	Cataract Surgary Sot		1
3. Arragua's Superior Rectus Needle Holder. 1 Blade Breaker. 1 4. Micro Corneal Forceps with Suture Tying. 1 5. Universal Corneal Scissors. 1 6. Iris Scissors Str/Cvd. 2 7. Micro Corneal Needle Holder. 1 8. Iris Repository Double Ended. 1 9. Wire Vectus. 1 10. Cautery Point. 1 11. Spring Scissors Straight. 1	υ.	Cataract Surgery Set		1
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4. Micro Corneal Forceps with Suture Tying. 1 5. Universal Corneal Scissors. 1 6. Iris Scissors Str/Cvd. 2 7. Micro Corneal Needle Holder. 1 8. Iris Repository Double Ended. 1 9. Wire Vectus. 1 10. Cautery Point. 1 11. Spring Scissors Straight. 1			C 1	1 Blade
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8. Iris Repository Double Ended. 1 9. Wire Vectus. 1 10. Cautery Point. 1 11. Spring Scissors Straight. 1				1
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12. Micro Mosquito Artery Forceps Str/Cvd. 4				1
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15. Simeco Two-way Cannula.				1	
16. Mepharson Forceps				1	
17. Instrument Tay Star 1				1	
Along with Container				1	
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3. Mosquito Antery Forceps Curved. 2 4. Mosquito Antery Forceps Curved. 2 5. Bowman Lacrimal Probe No.0-00. 1 6. Bowman Lacrimal Probe No.0-2. 1 7. Bowman Lacrimal Probe No.0-2. 1 8. Wilder Lacrimal Dilator. 1 9. West Lacrimal Dilator. 1 10. Towol Clips. 2 11. Straight Eye Scissors (Iris). 1 12. Strews Tentonopy Scissors. 1 13. Stevenson Lacrimal Sac Retractor. 1 14. Knapp Lacrimal Sac Retractor. 1 15. Small Mallet. 1 16. Barraquer Necelle Itolder Curved. 1 17. Straight Dessing Forceps (Iris)Plain. 1 18. NasaSpeculum. 1 19. NasaSpeculum. 1 19. NasaSpeculum. 1 19. NasaSpeculum. 1 10. Small Mallet. 1 10. Toword Clips. 1 10. Straight Obersing Forceps. 1 10. MassaSpeculum. 1 10. Straight Obersing Forceps. 1 11. Straight Obersing Forceps. 1 12. Straight Obersing Forceps. 1 13. Straight Obersing Forceps. 1 14. Straight Obersing Forceps. 1 15. Straight Obersing Forceps. 1 16. Straight Obersing Forceps. 1 17. Straight Obersing Forceps. 1 18. Straight Obersing Forceps. 1 19. Anterophysics of Forceps. 1 10. Straight Obersing Forceps. 1 10. Anterophysics Forceps. 1 10. Straight Obersing Forcep	/.	DCK Histrument Set	, , , , , , , , , , , , , , , , , , ,		
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9. West Lacrimal Sac Chisel. 1 10. Towel Clips. 2 2 11. Straight Eye Scissors (Iris). 1 12. Streaght Eye Scissors (Iris). 1 12. Streaght Eye Scissors (Iris). 1 13. Small Mallet. 14. Knapp Lacrimal Sac Retractor. 1 14. Knapp Lacrimal Sac Retractor. 1 15. Small Mallet. 1 16. Barraquer Needle Holder Curved. 1 18. NasalSpeculum. 1 19. NasalDressing Forceps (Iris)Plain. 1 18. NasalSpeculum. 1 19. NasalDressing Forceps. 1 1 1 1 1 1 1 1 1				1	
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Section box for postmortem with all accessories			20. SutureBarker	1	
Set			Along with Container		
9. Dissection box for post- mortem with all accessories SkullChisel	8.	Electric Foreign Body	Along with Container		
Mortem with all accessories		Set	Along with Container		
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Scalpel 5 Pcs Scalpel 100 Pcs Scalpel 100 Pcs Tooth Forceps 5 pcs BoneSaw 2 Pcs Amputationknife 1 Pcs PostmortemHammer 1 Pcs PostmortemSChisel 2 pcs Postmortem SpineWrench 1 Pcs Postmortem HookKnife 1 Pcs Postmortem HookKnife 1 Pcs Postmortem SpineWrench 1 Pcs Postmortem HookKnife 1 Pcs Postmortem Hook I I I I I I I I I I I I I I I I I I	9.				
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Tooth Forceps 5 pes BoneSaw 2 Pes Amputationknife 2 pes PostmortemHammer 1 pes PostmortemSchisel 1 pes Postmortem SpineWrench 1 pes Postmortem HookKnife 1 pes Postmortem HookKnife 1 pes Postmortem HookKnife 1 pes Blowpipe 2 pes Scissor 2 pes Blade Braker 1 2 B.P Handle No.3 1 3 Wire Speculum 1 4 Mosquito Artery Forceps Str/Cvd 2 5 Corneal Scissors Right 1 6 Corneal Scissors Right 1 7 Corneal Scissors Curved of flat 1 8 Barahuer Needle Holder Curved 1 9 A/I Cannula 1 10. Along with Container 1 11. Squint Surgical Set 1 Micro Needle holder 1 2 Needle Holder Large 1 3 Conjunctival Scissors 1 4 Corneal Toothed Large 1 5 Artery Forceps 6 6 Bulldog Clamps 2 7 Squint Hook 2	9.	mortem with all	SkullChiselRibCutter	2 Pcs 2 Pcs	
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PostmortemHammer 1 Pes	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs	
PostmortemsChisel 1 Pcs Postmortem SpineWrench 1 Pcs Postmortem HookKnife 1 Pcs Blowpipe 2 Pcs Scissor 2 Pcs 10. Glaucoma Set 1. Blade Braker 1 2. B.P Handle No.3 1 3. Wire Speculum 1 4. Mosquito Artery Forceps Str/Cvd 2 5. Corneal Scissors Right 1 6. Corneal Scissors Right 1 7. Corneal Scissors Curved of flat 1 8. Barahuer Needle Holder Curved 1 9. A/I Cannula 1 10. Along with Container 11. Squint Surgical Set 1 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs	
Postmortem SpineWrench	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs	
Postmortem HookKnife 1 Pcs 1 Pcs 2 Pcs	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs	
Blowpipe Scissor 2 Pcs	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs	
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1. Blade Braker 1 2. B.P Handle No.3 1 3. Wire Speculum 1 4. Mosquito Artery Forceps Str/Cvd 2 5. Corneal Scissors Right. 1 6. Corneal Scissors Curved of flat. 1 8. Barahuer Needle Holder Curved 1 9. A/I Cannula. 1 10. Along with Container 11. Squint Surgical Set 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
1. Blade Braker 1 2. B.P Handle No.3 1 3. Wire Speculum 1 4. Mosquito Artery Forceps Str/Cvd 2 5. Corneal Scissors Right. 1 6. Corneal Scissors Left. 1 7. Corneal Scissors Curved of flat. 1 8. Barahuer Needle Holder Curved 1 9. A/I Cannula. 1 10. Along with Container 1 10. Along with Container 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2 5. Squint Hook 2 5. Against Hook 2 5. Squint	9.	mortem with all	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
2. B.P Handle No.3		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
3. Wire Speculum		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
4. Mosquito Artery Forceps Str/Cvd 2 5. Corneal Scissors Right.		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor 1. Blade Braker	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
5. Corneal Scissors Right. 1 6. Corneal Scissors Left. 1 7. Corneal Scissors Curved of flat. 1 8. Barahuer Needle Holder Curved 1 9. A/I Cannula. 1 10. Along with Container 1 1. Squint Surgical Set 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSchisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs	
6. Corneal Scissors Left. 1 7. Corneal Scissors Curved of flat. 1 8. Barahuer Needle Holder Curved 1 9. A/I Cannula. 1 10. Along with Container 11. Squint Surgical Set 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 2 Pcs	
7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula. 10. Along with Container 11. Squint Surgical Set 1. Micro Needle holder 2. Needle Holder Large 3. Conjunctival Scissors 4. Corneal Toothed Large 1. Artery Forceps 6. Bulldog Clamps 7. Squint Hook 1. Squint Surgical Set 1. Micro Needle holder 1. Micro Needle holder 1. Squint Surgical Set 1. Squint Hook 1. Squint Surgical Set 1. Squint Hook 1		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 2 Pcs	
8. Barahuer Needle Holder Curved 1 9. A/I Cannula. 1 10. Along with Container 1 1. Squint Surgical Set 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 2 Pcs	
9. A/I Cannula. 10. Along with Container 11. Squint Surgical Set 1. Micro Needle holder 2. Needle Holder Large 3. Conjunctival Scissors 4. Corneal Toothed Large 5. Artery Forceps 6. Bulldog Clamps 7. Squint Hook 1		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 2 Pcs	
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11. Squint Surgical Set 1. Micro Needle holder 1 2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 2 Pcs 1 Pc	
2. Needle Holder Large 1 3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
3. Conjunctival Scissors 1 4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2		mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
4. Corneal Toothed Large 1 5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
5. Artery Forceps 6 6. Bulldog Clamps 2 7. Squint Hook 2	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
6. Bulldog Clamps 2 7. Squint Hook 2	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large Conjunctival Scissors 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
7. Squint Hook 2	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large Conjunctival Scissors Corneal Toothed Large 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemSChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large Conjunctival Scissors Corneal Toothed Large Artery Forceps 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pc	
8. V. Calipers.	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large Conjunctival Scissors Corneal Toothed Large Artery Forceps Bulldog Clamps 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs	
TO \$100	10.	mortem with all accessories Glaucoma Set	 SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container Micro Needle holder Needle Holder Large Conjunctival Scissors Corneal Toothed Large Artery Forceps Bulldog Clamps Squint Hook 	2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 2 pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs	

		9. Bowel SS 4"	1
		9. Bowel SS 4" 10. Kidney Tray	1
		11. Along with Container	1
12.	AO Basic Set	Twist Drills (unmounted2.5mmdiam.13cm	2
12.	110 Busic Set	2. Twist Drills (unmounted3.5mmdiam13cm	2
		HowmannBone lever small 16 length 6mm wie	
		3. Howmann Bone levercobratype.16cm	1
		4. Varburg Bone holdingforceps20cm	2
		5. Reduction clamp pointed13cm	2
		6. Reduction clamp screw jaw withteeth15cm	2
		7. Simmons plier17cm	1
		8. Tap 2.7mmdiam11cm	1
		9. Handle for screw driver +countersink	1
		10. Counter sink 10mm diam12.5cm	1
		11. Screw driver 2.5mm11.5cm	1
		12. Jeffson perosteal elevator 5mm20mm	1
		13. Plate bender14cmRetorcedor	2
		14. Screw sleeve 2.5mm+2.0mm	1
		15. Screw sleeve 2.7mm+2.0mm	1
		16. Tap sleeve 2.5mm+3.5mm	1
		17. Venabie Screwsleeve2.0mm	1
		18. Drill Guide	2
		19. BoneScaler	- 1
		20. Depthgage Large	1
		20. Dephilgage Large 21. Screwclamps8cm	î
		22. Screw Driver with Guide2.5mm19cm	1
		Along with Container	
13.	AO Small Fragment Set	Bone Holding Forceps A/o small=	2
13.	710 Sman 1 ragment Set	2. Bone Spikier small=	2
		3. Screw Driver small2.5mm=	1
		4. Periosteal Elevator small=	1
		5. Chisel small=	1
		6. Bone Cutter small=	1
		7. Wire Cutter Small=	1
		8. Tap small3.5=	1
		9. Tap Sleeve3.5=	1
		10. Depth Gage Small=	1
		11. Screw Sleeve=	1
		12. Instruments Box=	1
		Along with Container	1
14.	Dressing Set for Ward	Dressing scissors(Plastic Handle)	1
1 11	Diessing Set for Ward	2. Stitch Scissors fine	2
		3. No Toothed Forceps.	1
		4. Toothed Forceps.	1
		5. Artery forceps.	1
		6. Suture forceps.	1
		7. Small Kidney Tray.	1
		8. Bowl	1
		9. Kocher Forceps	1
		Along with Container	-
15.	IMN Set	Aiong with Container Awl	1Each
13.		Cortical Awl	1Each
		Tissue Protecor	1Each
		Impactor Large, Medium and Small	1Each
		GuidePin3.5mm	1Each
		Extractor	1Each
		Bio-Locking Femur 3	
		10/12/14x360/380/400/420/440/460	
		Femur proximal locking screw 3	
		60/65/70/80/90/100	
		Tibia/femoral blocking screw 3	
		Bio-locking Tibia 3	
		Bio-locking humerus 3	
		Proximal locking screw	
		End Stem	
		Reamer with T-Handle 6mm to 17mm 1 each	
		Along with Container	

Artery Princips Medium	16.	Dissecting Instrument Set	Instruments Box		
BP Handle	10.	Dissecting institution Set			
Dissecting Forceps plain & Tooth 2					
Dressing Disacting Scissors (\$ 8 M) 2					
Dressing suture Cutting Scissors 1					
Czerny Retractor 2 Lagenback Retractor 2 Needle Holder 2 Along with Container 2 Needle Holder 2 Along with Container 2 Needle Holder 2 2 1 Towel clips on pin 6 B.P. handleNo4 2 Artery forceps of curved 8 Artery forceps of curved 1 Sim 's straightestosors' 1 Sim 's straightestosors' 1 Sim 's straightestosors' 2 Cangenback retractors 2 Cangenback					
Legenback Retractor					
Needle Holder 2 Along with Container 2					
Along with Container					
17. Colostomy set Item Instrument container box10"x12" 1 Towel clips on pin 6 B.P. handleNo4 2 Artery forceps 6"curved 8 Artery forceps 6"curved 8 Artery forceps 6"straight 4 Sponge holding forceps 2 Metzebaumscissory Curved 1 Sim's straightscissors8" 1 Correct 1 Toothed dissocting forceps7" 1 Toothed dissoctingforceps7" 1 Toothed dissoctingforceps7" 1 Deaver retractors 2"wideblade 2 Deaver retractors 2"wideblade 2 Deaver retractors 2"wideblade 2 Deaver retractors 2"wideblade 1 CBR bougles set 1 Lathey's forceps 1 Werthermeecleleolder9" 1 Allis forceps7" (SAM & L) 6 Yankamer succion canola 1 Kidney trays00ml 1 Toothed dissocting forceps9" 1 Non toothed dissocting forceps9" 1 Deaver retractors 3 "wideblade 1 Kidney trays00ml 1 Toothed dissocting forceps9" 1 Non toothed dissocting forceps9" 1 Non toothed dissocting forceps9" 1 Deaver retractors 3 "wideblade 1 Kidney trays00ml 1 Toothed dissocting forceps9" 2					
Instrument container box10"x12" 1	17.	Colostomy set	•	Otv	
B.P. handle/Not		2		1	
B.P. handle/Not				6	
Artery forceps 6"curved				2	
Artery forceps 6"straight				8	
Sponge holding forceps				4	
Metzebaumseissors9" curved 1				2	
Czemey retractors				1	
Czemey retractors			Sim's straightscissors8"	1	
Langenbaeck retractors 2				2	
Needleholder?" 1				2	
Toothed dissectingforceps7" 1			_	1	
Non toothed dissectingforceps?" 1				1	
Deaver retractors 2"wideblade 2				1	
Deaver retractors 3" wideblade				2	
CBR bougles set				- 1	
Lathey's forceps 1 Werthenneedleholder9" 1 Allis forceps?" (S,M & L) 6 6 7 7 7 7 7 7 7 7				1	
Werthemneedleholder9" 1				1	
Allis forceps 7" (S,M & L) 6 Yankauer suction canola 1 Kidney tray llire 1 Deaver retractors 3"wideblade 1 Kidney tray500ml 1 Toothed dissectingforceps9" 1 Non toothed dissectingforceps9" 1 Babcock Forcep (S,M & L) 6 18. C-Section set instrument container box 10"x12" 1 Towel clips on pin 6 Sponge holding forceps 2 non toothed dissecting forceps 7" 2 Toothed dissecting forceps 7" 2 Toothed dissecting forceps 7" 1 BP handle No 4 Allis's forceps 9" 2 Kidney tray 1 litre 1 Artery forceps 6" 4 straight Metzebaum scissors 9" 1 curved Sim's straight seissors 8" 1 Doyne retractors 1 Gallipots 150 ml 1 Wrighley's outlet forceps pair 2 Needle holder 7" 2 Needle holder 7" 2 Needle holder 7" 2 Needle holder 9" 1 Baby Cord clamps 2 Green armytage forceps 2 Long Artery forceps 9" straight 1 Artery forceps 9" straight 1 Long Artery forceps 9" straight 1 Artery Clamp 10" 8 Ovum Forceps 1 Sims speculum forceps set of three 1				1	
Yankauer suction canola				6	
Ridney tray littre				1	
Deaver retractors 3"wideblade 1				1	
Kidney tray500ml 1 Toothed dissectingforceps9" 1				1	
Toothed dissectingforceps9" 1				1	
Non toothed dissecting forceps 9" 1				1	
Babcock Forcep (S,M & L)				1	
18. C-Section set				6	
Towel clips on pin Sponge holding forceps 2 non toothed dissecting forceps 7" 2	18	C-Section set		1	
Sponge holding forceps 2	10.	e section sec		6	
Non toothed dissecting forceps 7" 2					
Toothed dissecting forceps 7"					
BP handle No 4 Allis's forceps 9"				1	
Kidney tray 1 litre				2	
Artery forceps 6" curved on pin 8 Artery forceps 6" 4 straight Metzebaum scissors 9" 1 curved Sim's straight scissors 8" 1 Doyne retractors 1 Gallipots 150 ml 1 Wrighley's outlet forceps pair 2 Needle holder 7" 2 Needle holder 9" 1 Baby Cord clamps 2 Green armytage forceps 2 Long Artery forceps 9" straight 1 Long Artery forceps 9" curved 2 19. D & C Set Item Qty Uterine Sound 1 Curette Double Ended 3 Volselum 10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 5 Dialectomy set 5 Dialectomy set 5 Disnectomy set of three 1				1	
Artery forceps 6"				8	
straight Metzebaum scissors 9" 1 curved Sim's straight scissors 8" 1 Doyne retractors 1 Gallipots 150 ml 1 Wrighley's outlet forceps pair 2 Needle holder 7" 2 Needle holder 9" 1 Baby Cord clamps 2 Green armytage forceps 2 Long Artery forceps 9" straight 1 Long Artery forceps 9" curved 2 19. D & C Set Item Qty Uterine Sound 1 Curette Double Ended 3 Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1				4	
Curved Sim's straight scissors 8" 1				1	
Doyne retractors Gallipots 150 ml Wrighley's outlet forceps pair Needle holder 7" Needle holder 9" Needle holder 9" 1 Baby Cord clamps Green armytage forceps 2 Long Artery forceps 9" straight Long Artery forceps 9" curved 19. D & C Set Item Uterine Sound Curette Double Ended Volselum10" Artery Clamp 10" Artery Clamp 10" Sound Forceps Ovum Forceps Dialectomy set Sims speculum forceps set of three 1				1	
Gallipots 150 ml				1	
Needle holder 7"				1	
Needle holder 7"			Wrighley's outlet forceps pair	2	
Baby Cord clamps Green armytage forceps Long Artery forceps 9" straight Long Artery forceps 9" curved 19. D & C Set Item Uterine Sound Curette Double Ended Volselum 10" Artery Clamp 10" Artery Clamp 10" Sound Ovum Forceps. Dialectomy set Sims speculum forceps set of three 1				2	
Green armytage forceps 2 Long Artery forceps 9" straight 1 Long Artery forceps 9" curved 2 19. D & C Set Item Uterine Sound Curette Double Ended 3 Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1			Needle holder 9"	1	
Long Artery forceps 9" straight Long Artery forceps 9" curved 19. D & C Set Item Uterine Sound Curette Double Ended Volselum10" Artery Clamp 10" Artery Clamp 10" Sound Ovum Forceps. Dialectomy set Sims speculum forceps set of three 1				2	
Long Artery forceps 9" curved 2 19. D & C Set Item Uterine Sound Curette Double Ended Volselum10" Artery Clamp 10" Artery Clamp 10" Sound Ovum Forceps. Dialectomy set Sims speculum forceps set of three 2 Oty Oty Oty Oty Oty Oty Oty Oty Oty Ot				2	
19. D & C Set Item				1	
Uterine Sound 1 Curette Double Ended 3 Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1			Long Artery forceps 9" curved	2	
Uterine Sound 1 Curette Double Ended 3 Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1					
Curette Double Ended 3 Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1	19.	D & C Set		Qty	
Volselum10" 1 Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1				1	
Artery Clamp 10" 8 Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1				3	
Ovum Forceps. 2 Dialectomy set 1 Sims speculum forceps set of three 1				1	
Dialectomy set 1 Sims speculum forceps set of three 1					
Sims speculum forceps set of three 1				2	
				1	
Curved for Gynae 1 to 5				1	
			Curved for Gynae 1 to 5	1	

		Sate catheter (Metallic female catheter)	1
		Instrument containerbox10"x12"	1
		towel clipsonpin	4
		sponge holdingforceps9.5"	1
		non toothed dissecting forceps 8"	2
		Allis's forceps 9"	2
		Dilator set (Hegers)	1
		Galli Pot150ml	2
		Along with Container	
20.	Diagnostic set	The Diagnostic Set includes	
		Otoscope.	1
		 Nasal Speculum, Lampcarrier. 	2
		2 laryngeal mirrors.	2
		Spatula support.	2
		• Funnels. 3	
		Handle and two spare Bulbs.	
		Opthamaloscope	1
		Along with Container	1
21.	Dressing Set with Trolley	1. instrument container box10"x12"	1
21.	Diessing Set with Honey	2. Towel clips on pin	6
			1
		3. Sponge holding forceps	1
		4. non toothed dissecting forceps7"	1
		5. Allis's forceps9"	
		6. Dilator set	1
		7. Sims speculum set	1
		8. Duck speculum set	1
		9. Uterine Sound	1
		10. Volselum set	1
		11. Uterine curette set of three	
		12. Kidney tray 1 litre	1
		13. Flushing curette set of three	1
		14. Gallipots 150 ml	1
		15. Along with Container	
22.	E & C Set	1. instrument container box10"x12"	1
		2. Towel clips on pin	4
		3. Sponge holding forceps	1
		4. non toothed dissecting forceps7"	6
		5. Allis's forceps9"	2
		6. Dilator set	4
		7. Sims speculum set	4
		8. Duck speculum set	4
		9. Uterine Sound	
		10. Volselum set	4
		11. Uterine curette set of three	2
		12. Kidney tray 1 liter	1
		13. Kidney tray 500ml	1
		14. Flushing curette set of three	1
		15. Gallipots 150 ml	1
		Along with Container	1
23.	Laparatomy set	Item	Qty
23.	Lupurationity bot	1. Instrument container box10"x12"	1
		2. Towel clips on pin	6
		3. B.P handleNo4	2
		4. Artery forceps6"curved	8
		5. Artery forceps6"straight	4
		6. Sponge holding forceps	7
		7. Metzebaumscissors9"curved	1
			1
		e e e e e e e e e e e e e e e e e e e	2
		9. Czerney retractors	_
		10. Langenbaeck retractors	2
		11. Needleholder7"	1
		12. Toothed dissectingforceps7"	1
		13. Non toothed dissectingforceps7"	1
		14. Deaver retractors 2"wideblade	2
		15. Deaver retractors 3"wideblade	1

		16. Kirscchnerself-retaining retractor with 4 blades 1	
		17. Non crushing intestinal clamps curved 2	
		18. Non crushing clamps straight 2	
		19. Artery clamps9"curved 1	
		20. Lathey's forceps 1	
		21. Debaky Forcep 1	
		22. Toothed dissectingforceps9" 1	
		23. Non toothed dissectingforceps9" 1	
		24. Allisforceps7" 2	
		25. Yankauer suction cannula 1	
		26. Kidney tray1litre 1	
		27. Kidney tray500ml 1	
		28. Needleholder9 1	
		29. Daithermy Monopolar	
		· ·	
2.4	15.1	30. Self-Retaining Retractor 1	
24.	Normal Delivery set	Stainless steel imported/Local made	
		2. Bowl lotion 150 mm	
		3. Kidney Tray 10" 3	
		4. Mucus Extractor Reusable Rubber 2	
		5. Catheter used with mucus Extractor 2	
		6. Artery Forceps Kocher 8" straight. 4	
		7. Dissecting Forceps 6" toothed. 4	
		8. Needle holder mayo 6.5	
		9. Outlet Forceps large size. 2	
		r J	
		11. Scissors B/B 6	
		12. Card Clamp.	
		13. Sims Speculum 1	
		Along with Container	
25.	Obs/ General Gynae set	1. Instrument container box10"x12"	
		2. Towel clips on pin	
		3. Sponge holding forceps	
		4. non toothed dissecting forceps?"	
		5. Toothed dissecting forceps?"	
		6. BP handle No4	
		7. Allis's forceps8"	
		8. Kidney tray 1litre	
		9. Artery forceps 6" curved on pin	
		10. Artery forceps 6"straight	
		11.Metzebaum scissors 9" curved	
		12.Sim's straight scissors 8"	
		13. Kidney tray 500ml	
		14. Deaver retractors set of three	
		15. Gallipots 150ml	
		16. Bowl 8litre	
		17. Needle holder?"	
		18. Needle holder9"	
		19. Self-retaining retractor (Balfon3blades)	
		20. Volsellum forceps	
		21. Long Artery forceps 9"straight	
		22. Long Artery forceps 9" curved	
		23. Viginal Retractor	
26.	Thoracotomy set	1. Instrument container box10"x12" 1	
20.	Thoracotomy set	2. Towel clips on pin 6	
		4. Artery forceps 6"curved 8	
		5. Artery forceps 6"straight 4	
		6. Sponge holding forceps 2	
		7. Metzebaumscissors9"curved 1	
		8. Sim's straightscissors8" 1	
		9. Czerney retractors 2	
		10. Langenbaeck retractors 2	
		10. Langenback retractors 2 11. Needleholder?" 1	
		12. Toothed dissectingforceps?"	
		13. Non toothed dissectingforceps7" 1	
	-		

		T		
		14. Allis forceps7"	1	
		15. Rib spreader	1	
		16. Doyenribra spactories set	1	
		17. Yankauer suction cannula	1	
		18. Lung retractors	2	
		19. Kidney tray1litre	1	
		20. Kidney tray500ml	1	
		21. Needleholder9"	1	
		Along with Container		
27.	Thyriodectomy Set	Item	Qty	
	inglibactioning bot	Joll's Retractor	1	
		Towel clip on pin	6	
		BP handleNo4	2	
		Artery forceps 6"curved	8	
			о Л	
		Artery forceps 6" straight	4	
		Sponge holding forceps	2	
		Meta-Baum scissors9"curved	1	
		Sim's s straightscissor8"	1	
		Czemcy retractor	2	
		Langeback retractor	2	
		NeedleHolder7"	1	
		Toothed dissectingforceps7"	1	
		Non toothed dissectingforceps7"	1	
		Thyroidre	1	
		Alliesforceps7"	1	
		Kidney tray 1 liter	1	
		Kidney tray500ml	1	
			1	
20	Limothual Dilatan art	Along with Container		
28.	Urethral Dilator set	Complete Set of Autoclavable Dilators		
		Sizes; 2-32		
		Along with container		
29	Varicose Vein set	Instrument container box 10"x 12"	1	
		Towel clips on pin	6	
		B.P handle No 4	2	
		Artery forceps 6" curved	8	
		Artery forceps 6" straight	4	
		Sponge holding forceps	2.	
		Czerney retractors	2	
		Langenbaeck retractors	2	
		Needle holder 7"	1	
		Toothed dissecting forceps 7"	1	
			<u>1</u> 1	
		Non toothed dissecting forceps 7"	1 1	
		Artery clamps 9" curved] 1	
		Lathey's forceps	1	
		Toothed dissecting forceps 9"	1	
		Non toothed dissecting forceps 9"	l .	
		Allis forceps 7"	1	
		Along with Container		
30.	Haemorrhoidectomy set	Instrument container box 10"x 12"	1	
		Towel clips on pin	6	
		Artery forceps 6" curved	8	
		Artery forceps 6" straight	4	
		Sponge holding forceps	2	
		Metzebaum scissors 9" curved	1	
		Sim's straight scissors 8"	1	
		Needle holder 7"	1	
		Toothed dissecting forceps 7"	1	
		Non toothed dissecting forceps 7"	1	
		Kidney tray 1 litre	1	
		Along with Container	-	

			1
31.	Prostatectomy Set	• Instrument container box 10"x12" 1	
		• Towel clips on pin 6	
		B.P handle No4 2	
		Artery forceps 6"curved 8	
		Artery forceps 6" straight 4	
		• Sponge holding forceps 2	
		Metzebaum scissors 9"curved 1	
		• Sim's straight scissors8" 1	
		• Czerney retractors 2	
		• Needle holder7" 1	
		• Toothed dissecting forceps7"	
		 Non toothed dissecting forceps7" 	
		Suprapubic retractor 1	
		• Allis forceps7"	
		Yankauer suction cannula	
		• Kidney tray 1litre	
		• Kidney tray 500ml 1	
		Prostectomy Retractor 1	
32.	Cholecystectomy Set	• Instrument container box 10"x12" 1	
		• Towel clips on pin 6	
		B.P handle No4 2	
		• Artery forceps6"curved 8	
		• Artery forceps 6" straight 4	
		• Sponge holding forceps 2	
		 Metzebaum scissors 9"curved 	
		• Sim's straight scissors8" 1	
		• Czerney retractors 2	
		Langenbaeck retractors 2	
		• Needle holder7" 1	
		• Toothed dissecting forceps7" 1	
		 Non toothed dissecting forceps7" 	
		• Deaver retractors 2" wide blade 2	
		• Deaver retractors 3" wide blade 2	
		• Allis forceps7" 2	
		*	
		Yankauer suction cannula 1	
		Kidney tray 1litre 1	
33.	Vaginal Hysterectomy	1. Instrument container box10"x12" 1	
	set	2. Towel clipsonpin 6	
		3. B.P handleNo4 2	
		4. Artery forceps 6"curved 8	
		5. Artery forceps 6"straight 4	
		6. Sponge holding forceps 2	
		7. Metzebaumscissors9"curved 1	
		E C	
		9. Czerney retractors 2	
		10. Langenbaeck retractors 2	
		11. Needleholder7" 1	
		12. Needleholder8" 1	
		13. Toothed dissectingforceps7" 1	
		14. Non toothed dissectingforceps7" 1	
		15. Alliesforceps7" 6	
		16. Sim's speculum set	
		17. Gallipots150ml 2	
		18. Uterine sound 1	
		19. Kidney tray1litre 1	
		20. Kidney tray500ml 1	
		21. Volsellum forceps 2	
		22. Viginal Retractor 1	
		Along with Container	
34.	Vascular set	1. Instrument container box10"x12" 1]
		2. Towel clips on pin 6	
		3. B.P handleNo4 2	
		4. Artery forceps 6"curved 8	
1			

		5. Artery forceps 6"straight 4	
		6. Sponge holding forceps 2	
		7. Metzebaumscissors9"curved 1	
		8. Sim's straightscissors8" 1	
		9. Czerney retractors 2	
		10. Langenbaeck retractors 2	
		11. Needleholder7" 1	
		12. Toothed dissectingforceps7" 1	
		13. Non toothed dissectingforceps?"	
		14. Allis forceps?" 4	
		15. Vascular Clamp 2	
2.5	T	Along with Container	
35.	Laminectomy Sets	1. Carrison's Rangour (up-cut) 02	
		- 1mm, 2mm, 3mm,4mm	
		2. Pituitary Rangour 04	
		- 1mm, 2mm, 3mm(Strait)	
		- 2mm Forward -01	
		- 2 mm Backward –01	
		3. Watson chain Dissector – 01	
		4. Adson's retractor – root retractor 01	
		5. Mastoid retractor- 02	
		6. Deep Mastoid retractor (Cervical) 02	
		7. Hemi-retractor – (Right 01) (Left 01)	
		8. Chisel – 01	
		9. Suction nozzles – small, medium,large	
		10. BP knife handle – long 01	
		11. Cutting se: fine / assistant Scissors 02	
		- Needle holders	
		- Dissecting forceps- Plain and tooth 02	
		- Artery forceps 04	
		- Towel clamps sponge holding 01	
		- Kidney trays 02	
		- Instruments tray (Large)	
36.	VP Shunt	Sulemans subcutaneous shunt passer	
50.	VI Shunt	- Adult Size 4	
		- Paeds Size 4	
		2. Hudson Brace –perforator 1	
		Burn bole(Various sizes)	
		3. Brain Cannula - 1	
		4. Adson's Dissector 2	
		5. Mastoid Refractor – Small, Medium, Large sizes 1each	
		6. Peritoneal trocar 1	
		7. Cutting set –scissor-fine/assistant 1	
		- Needle holder- fine large 1	
		- Artery forceps – all size 4	
		- Dissecting forceps - plain, tooth 1 each	
		- Sponge holder 1	
		- Kidney tray	
		- Instrument tray- large size	
		- Bowl(sponge)	
		- Suction- nozzles- medium, small sizes	
37.	Kidney Stone Removal	1. Dijorden Forceps 1	
	Set	2. BoleocksRt angled long dissecting 1	
		3. Long scissors forceps 1	
		4. Long needle holders 2	
		5. Suction nozzles with guard 1	
		6. Morrison's refractor 1	
		•	

38.	Appendectomy Surgery Set	Mayoscissor 14cm curved TC
		2. Scalpel Handle #4 2
		3. Allis tissue forceps 15 cm 4
		4. Bab cocks tissue forceps 16 cm 2
		5. Plain Forcep 1
		6. Toothed Forcep 1
		7. Artery Forcep Curved 4
		8. Artery Forcep Straight 2
		9. Czerny Retractor 2
		10. Needle Holder 2
		11. Suture Cutting Scissor 1 12. Kidney Tray 500ml
20		
39.	Bone Set Large, Small	1. Complete set of Bone Cutter 1 2. Bone Nibblers 2
	and Medium	2. Bone Nibblers 2 3. Chisel - osteotome, 2
		4. Hammer – Periosteum 1
		5. Elevator, 1
		6. Bone levers etc. 4
		7. Complete sets curettes 4
		8. Bone holding forceps. 4
40.	Cutting Instrument Set	1. BP needle
		2. A. Forceps
		3. Allis Forceps
		4. Sponge holding
		5. Dissecting plain/tooth
		6. Towel Clips
		7. Needle Holders
		8. Kidney Tray
		9. Bowels
		10. Instruments Tray
		11. Dissecting Box
		12. Suture Cutting Scissors
		13. C-Zarny Refractors Scissors 14. Langback
41.	Myringoplasty Set	Plaster first incision knife
	injingopiasiy zet	2. Rotary first incision knife
		3. Sickle knife
		4. Myringotomes
		5. Aural crocodile forceps Tilley's
		6. Cawthorne crocodile scissors straight
		7. Cawthorne crocodile scissors right
		8. Cawthorne crocodile scissors left
		9. Frazier suction nozzlesnos.6.7.8.
		10. Micro suction nozzle
		11. Cawthorne hook. Different angles
		12. Granulation forceps straight
		13. Micro ear instruments different (Mobilizer, Measuring rode, Curette
		, elevator Rt,Lt
		14. Micro Hartmann crocodile forceps straight
		Micro Hartmann crocodile forceps right Micro Hartmann crocodile forceps left
		17. Mollison mastoid retractor adult
		18. Mollison mastoid retractor child
		19. Micro granulation forceps straight
		20. Micro granulation forceps right
		21. Micro granulation forceps left
		22. Plaster Jenson retractor right
		23. Plaster Jenson retractor left
		24. Crocodile forceps fine tips3"
		25. Tumarkin metal ear speculum slotted
		26. Ear speculums
		27. Caw thorne periosteal elevator
		28. King vein graft pressing forceps
		29. Instruments tray 12"X 14"
		30. Needles box
		31. Mastoid chisel

Category: Generators

S#	Nomenclature	Specifications	Qty
S# 01	Nomenclature Generator 40 KVA	Genset Rating: (Model, Make and country of origin must be mentioned) Prime rating: 40KVA/32KW Output Voltage (Single phase/Three Phase): 220-240/400-440 Frequency: 50Hz Power Factor: 0.8 RPM: 1500 or Better Generator neutral shall be solidly earthed Engine Specification: (Model, Make and country of origin must be mentioned) Fuel: Diesel Engine Rating in HP: 48 HP or better No of Cylinders: 4 Inline Compression ratio: 18:1 or better Displacement: 2.86L or better Governor Type: Mechanical Fuel Tank Capacity: 90 L or better Lubricant Oil Sump Capacity: 7.5L or better Ambient Temperature at Rated Load: 50°C Radiator Capacity (L): 13 L or better Alternator: (Model, Make and country of origin must be mentioned) Type: 4 poles brushless Insulation: Class H Voltage Regulation No Load to Full Load: ±1% or better. Winding Pitch: 2/3 Protections: Alternator Protection: Over/Under Voltage Protection. Over/Under Voltage Protection. Over/Under Voltage Protection. Display:	Qty
02	Generator 50 KVA	3. Engine over & under Speed4. Emergency Stop5. Low Fuel Level	

		 Fuel: Diesel Engine Rating in HP: 60 HP or better No of Cylinders: 4 Inline Compression ratio: 18:1 or better Displacement: 3.3L or better Governor Type: Mechanical Fuel Tank Capacity: 150L or better Lubricant Oil Sump Capacity: 8L or better Ambient Temperature at Rated Load: 50°C Radiator Capacity (Ltr): 15 L or better Alternator: (Model, Make and country of origin must be mentioned) Type: 4 poles brushless Insulation: Class H Voltage Regulation No Load to Full Load: ±1% or better. Winding Pitch: 2/3
		Protections: Alternator Protection: 1. Overload and Short Circuit Protection. 2. Generator Phase Sequence Protection. 3. Over/Under Voltage Protection. 4. Over/Under Frequency Protection. 5. Over current Protection. Engine Protection: 1. Low Lube oil Pressure 2. High/Low Coolant Temperature 3. Engine over & under Speed 4. Emergency Stop 5. Low Fuel Level Display: Voltage, Current, KW, Power factor, Frequency, KWh Engine Oil Pressure Coolant Temperature (Digital) Fuel level indication Engine RPM Total Running Hours The following items must be included with diesel generator. 1. ATS panel (Local with imported components). 2. Power cable, per meter rate should be mentioned 3. Providing, installation and testing of the unit and earthling network for generator set.
03	Generator 100KVA	 4. Construction of foundation pad. 5. Weather and sound proof canopy (Local). The supplier will be responsible for complete installation/ functionalization of the generator. Genset Rating: (Model, Make and country of origin must be mentioned) Prime rating: 100KVA/80KW
		 Output Voltage (Single phase/Three Phase): 220-240/400-440 Frequency: 50Hz Power Factor: 0.8 RPM: 1500 or Better
		Engine Specification: (Model, Make and country of origin must be mentioned) • Fuel: Diesel • Engine Rating in HP: 115 HP or better • No of Cylinders: 4 Inline or better • Compression ratio: 18:1 or better • Displacement: 4.4L or better • Governor Type: Electronic • Fuel Tank Capacity: 250L or better • Lubricant Oil Sump Capacity: 8L or better • Ambient Temperature at Rated Load: 50°C • Radiator Capacity (Ltr): 17 L or better

Alternator: (Model, Make and country of origin must be mentioned) Type: 4 poles brushless Insulation: Class H Voltage Regulation No Load to Full Load: ±1% or better. Winding Pitch: 2/3 **Protections: Alternator Protection:** 1. Overload and Short Circuit Protection. 2. Generator Phase Sequence Protection. 3. Over/Under Voltage Protection. 4. Over/Under Frequency Protection. 5. Over current Protection. **Engine Protection:** 1. Low Lube oil Pressure 2. High/Low Coolant Temperature 3. Engine over & under Speed **Emergency Stop** 5. Low Fuel Level **Display:** Voltage, Current, KW, Power factor, Frequency. **Engine Oil Pressure** Coolant Temperature (Digital) Fuel level indication Engine RPM **Total Running Hours** The following items must be included with diesel generator. ATS panel (Local with imported components). Power cable, per meter rate should be mentioned Providing, installation and testing of the unit and earthling network for generator set. 4. Construction of foundation pad. 5. Weather and sound proof canopy (Local). The supplier will be responsible for complete installation/functionalization of the generator. 04 Generator 200KVA Genset Rating: (Model, Make and country of origin must be mentioned) Prime rating: 200KVA/160KW Output Voltage (Single phase/Three Phase): 220-240/400-440 Frequency: 50Hz Power Factor: 0.8 RPM: 1500 or Better Engine Specification: (Model, Make and country of origin must be mentioned) Fuel: Diesel Engine Rating in HP: 240 HP or better No of Cylinders: 6 Inline or better Compression ratio: 16.0:1 or better Displacement: 7.0L or better Governor Type: Electronic Fuel Tank Capacity: 280L or better Lubricant Oil Sump Capacity: 16L or better Ambient Temperature at Rated Load: 50°C Radiator Capacity (L): 25 L or better **Alternator:** (Model, Make and country of origin must be mentioned) Type: 4 poles brushless Insulation: Class H Voltage Regulation No Load to Full Load: ±1% or better. Winding Pitch: 2/3 **Protections: Alternator Protection:** Overload and Short Circuit Protection. Generator Phase Sequence Protection.

- Over/Under Voltage Protection.
- 4. Over/Under Frequency Protection.
- 5. Over current Protection.

- Engine Protection:
 1. Low Lube oil Pressure
- 2. High/Low Coolant Temperature
- 3. Engine over & under Speed
- 4. Emergency Stop
- 5. Low Fuel Level

Display:

- Voltage, Current, KW, Power factor, Frequency.
- Engine Oil Pressure
- Coolant Temperature (Digital)
- Fuel level indication
- Engine RPM
- **Total Running Hours**

The following items must be included with diesel generator.

- ATS panel (Local with imported components).
- 2. Power cable, size and per meter rate should be mentioned
- 3. Providing, installation and testing of the unit and earthling network for generator set.
- Construction of foundation pad. 4.
- Weather and sound proof canopy (Local). 5.

The supplier will be responsible for complete installation/ functionalization of the generator.

SPECS FOR HIGH ROOF HIACE AMBULANCE WITH FABRICATION

S.No	Nomenclature	Specification	Qty
01	Ambulance (High Roof	Ambulance Van:	
	Hiace) with fabrication	Engine: Diesel	
	and Ambulatory items	• Engine Type: 4 Cylinder, 8-Valve or better	
		Piston Displacement: 2700CC to 3000CC	
		• Transmission: 5 Speed – Manual	
		• Drive configuration: 4x2	
		Steering: Right Hand, Power	
		Brakes: Disc (front wheels), Drum (Rear Wheels)	
		• 04 Doors	
		• Seat Belt (Front)	
		 Air conditioned / Heating system (Front and Rear) 	
		 Minimum Turning Radius: 5.0m or less 	
		 Fuel Tank Capacity: 65 Litters or better 	
		 Audio: AM/FM, 2 Speakers 	
		• Clock	
		• Cup Holder: 02 (Front)	
		Intermittent Wiper	
		Door Ajar Warning	
		Key Remind Warning	
		Steering System: Tilt	
		Sun Visor: Driver + Passenger	
		With under mentioned fabrication and Ambulatory items.	
02	Ambulance (4x4 Single	Ambulance 4x4 Single cab Pickup :	
	cab Pickup) with	Engine: Diesel	
	fabrication and	Engine Type: 4 Cylinder, Inline or better	
	Ambulatory items	Piston Displacement: 2700CC to 3000CC	
		Transmission: 6 Speed – Manual	
		• Drive configuration: 4x4	
		Steering: Right Hand, Power	
		Brakes: Disc (front wheels), Drum (Rear Wheels)	
		• 02 Doors	
		Seat Belt (Front)	
		 Air conditioned / Heating system (Front and Rear) 	
		 Minimum Turning Radius: 7.0m or less 	
		 Fuel Tank Capacity: 75 Litters or better 	
		 Audio: AM/FM, 2 Speakers 	
		• Clock	
		• Cup Holder: 02 (Front)	
		Intermittent Wiper	
		Door Ajar Warning	
		Key Remind Warning	
		Steering System: Tilt	
		Sun Visor: Driver + Passenger	
		With under mentioned fabrication and Ambulatory items.	

AMBULATORY ITEMS

- Main stretcher **Auto Loader** / moving type with seat belt and head section (Light Weight Aluminum/Imported, CE Certified)
- Emergency folding stretcher (Canvas cloth/Aluminum/Imported)
- Beacon lamps (4 Feet Emergency LED Strobe Light. Red-Blue Color)
- First Aid Bag
- Electric siren amplifier & speaker
- Side seat for three persons
- Room lamp, 10 W

- Attendant/Doctor seat, folding type, 01 or 02 persons, subject to space
- Fire extinguisher 2 kg & 4 Kg. One is driver cabin and one in patient cabin.
- Hand lamp with connector, 30 W
- Intravenous feeding hook
- Complete oxygen cylinder kit, key and regulator & portable artificial resuscitation equipment. (2 cylinders of 10 Liters capacity each, with Japanese regulators)
- Plywood floor with vinyl covering
- Side cabinet standing & fixed to wall/floor
- Wash basin along with water tank
- Fan (revolving)
- Curtain complete (rear glass)
- Frosted half painted side glasses
- Surgical instrument box with essential surgical instrument/cutting shelf
- Waste bucket
- Ambulance writing with monogram with institution name on all sides and on front in mirror image.
- Connection for power supply (12V-220V)

DETAILE SPECS OF FABRICATION TO BE CARRIED OUT.

Note: Separate rate shall be quoted for the item from S.No 1 to S.No 16 (Including each ambulatory equipment.

1. Floor:

Floor would not be left punctured for installations. Special molded F/G or MDF flooring base approx. 5mm thick. The floor would be carpeted with, non-slip, stain resistant, water proof and washable special coating vinyl sheet, design includes include special resin, plastic flakes and final coating of transparent lamination **or** imported antibacterial type (one piece) vinyl sheet 2-3 mm thick, as used in 1122 ambulances. This would cover all sides and gaps of the cabinetry making it completely water resistant. Special hard point fittings would be done for installation of chair, cabinet and bench etc. S/S 16 SWG sheet on the floor under the stretcher area.

2. Partition Wall:

Partition wall between the driver and patient compartment would be fixed with steel brackets to side walls. A small window would be given in between the driver and patient compartment with a built-in place with sliding glass for communication.

3. Ceiling Panel:

Made of ABS or FG material with internal LED lights, one long grip handle along the length of ceiling made of SS or Aluminum properly reinforced and option for holding two IV hooks with anti-swing belts in ceiling or side panel.

4. Side Utility Panel:

Made of ABS or FG molded material on the right side. Having dedicated O2 system having two outlets, O2 alarm system, O2 cylinder changeover system and electrical system having all switches and sockets for $12\ V\ \&\ 220\ V$, having $220\ V$ inverter.

5. Electrical Wiring:

All electrical wiring of ambulatory compartment would be of wiring harness system with no joint and taping having all connector system and having a separate fuse box for each operation. All wires would be of 10mm, 8 mm and 6 mm size and would be of fire retardant and high temperature resistant, material. There would be a 220 volts imported inverter of 300-400 watts approximately.

6. Three Persons Bench:

Made of 3" special polyurethane foam as used in automobile seats with approximate 16" width, made over a storage box open-able in one part. Sealed seat cover of best quality artificial leather, seat belts and cushioned back. One side bar made of 1" S.S chromed pipe.

7. Oxygen Supply System:

Brand new imported oxygen cylinders of approx. 10 liter capacity duly tested, certified and filled by Government approved company, with low oxygen alarm system, changeover system and oxygen supply hose made of resilient, reinforced plastics to retain its flexibility in cold & un-crack able in heat up to 65°C with brass sockets and connectors. The pressure regulator of cylinders would be **Japanese** "**Panel A".** Oxygen would be delivered through two outlets on the panel and one outlet over the attendant bench (for additional patient) with flow meters and face masks.

8. One Person Crew Seat:

One crew seat fixed to the body of the vehicle with waist seat belt, at the head end of patient with best quality artificial leather or fabric.

9. Medical Cabinet:

Made of high quality non- staining scratch resistant, rust proof, water proof F/G or ABS material. All front doors & drawers having double side finished with self-retaining recessed handles. All doors having closable imported surface hinges. Cabinet having four sections.

a. Oxygen Section:-

To accommodate two M.F size O2 cylinders, would have double steel brackets with rubber padding. The door having flexi-glass window, an internal light with a door switch. Floor of cabinet matted with vinyl flooring.

b. Disposable Section:-

Disposable section having 3 to 4 shelves for various disposables.

c. Drawers Section:-

Having 3 to 5 drawers (depending upon the size of vehicle). All drawers inside made of S/S sheet material or fiber non-magnetic material. All drawers having special self closing&self retaining catcher handle lock system which is not self open-able during emergency driving.

d. Wash Basin Section:-

This section having special molded wash basin with tap, having a water reservoir of 15 to 20 Liters capacity. Water should be dispensable through an electrical pump operated with a switch. Top of the cabinet having rounded edges & corners. One soap dispenser & one toilet roll holder to be provided.

10. Side Cabinet Shelf for AED, Monitor and Suction unit:

Made of completely FG material on right side of the vehicle starting from the end of main cabinet and doctor seat to the rear length of right side, one top shelf having capacity to accommodate AED, Monitor, Emergency bag etc. if any.

11. Bleeding Kit Packed in Kidney Tray:

Bleeding Kit packed in Kidney Tray having following items:-

(02), Toothed Forceps (01), Tourniquets (04), Tissue Scissor (01), Sponge Holder (01), Dressing Scissor (01), Crepe Bandages small & large (02 each), Gauze Packs large (04), Catgut 2/0 (05).

12. Amputation Kit in Stainless Steel Tray:

Amputation Kit in Stainless Steel (nonmagnetic) Tray having following items:-

Saw Cutter (01), Needle holder (01), Artery Forceps (02). Toothed Forceps (01), Tissue Scissor (01), Sponge Holder (01), Dressing Scissor (01), Crepe Bandages small & large (02 each) Gauze Packs large (04), Silk 2/0 & 1 size 2 each with needle Distilled Water (04), D / Syringes 5cc, l0cc (05 each), Antiseptic wipes 0l box, Quick Clot for immediate stop to perfuse bleeding 01, Hemostatic Gauze one box of 50 Pcs.

13. One Folding Stretcher Four Fold:

Bedding area made of very strong water resistant PVC coated washable orange parachute cloth with name printed on it and special carrying bag made of Parachute and structure made of 1 1/4 " round light-weight aluminum alloy.

14. Trauma First Aid Bag:

One rucksack type trauma first aid bag made of strong water resistant PVC coated washable red parachute cloth with reflective strips with appropriate placement for and including the following items:- Wooden splints (2), Crepe Bandage (4"=01 6"=01), N/Saline 0.9% (01), Pyodine Solution (01), Dressing Scissor (01), Cicatrin Powder (01), 4X4 Gauze Pad (04), Sticking 1" (02). Antiseptic wipes 01 box.

15. One Airway Management Bag:

It should be made of strong water resistant PVC coated washable red parachute cloth with strips printed on it with appropriate placement for and including the following items:-

- Ambo Bag having special valves, which should limit the excessive flow of gas into the patient airway significantly reducing the risk of gastric insufflations by effectively lowering the airway pressure, generated. (imported ,best Quality)
- Silicon Laryngeal Mask of 3 variable sizes with transparent tube. (3 pcs total)
- Laryngoscope with three to four curved blades
- One Professional LED torch
- Color coded Airways of assorted sizes (1 set)
- Mouth opener
- Sterilized disposable gloves (04)
- Contaminant bags (04).

16. Ambulatory equipment's

- One BP apparatus (Mercury type, Japan-Germany) with Littman stethoscope
- One BP Set with Dial (wall mounted) with spiral tubing, cuff, pump and stethoscope.
- Spine Board with Head Immobilizer (Imported)

A. Transport ventilator with all Accessories.

Specifications:

- Unit to be used for adult, child and infant ventilation during Cardiopulmonary resuscitation and for ventilation during transpiration when necessary.
- To have frequency control 4 to 100 bpm,
- Tidal volume control 20-2000ml
- Inflation pressure monitor 0 to 100 cm H2O.
- Air mix control 21 to 100%.
- Adjustable relief pressure with audible alarm 20 to 80 cm H2O.
- PEEP facility 0 to 20 cmH2O or better.
- Patient circuit 1.25m long, 15mmsingle bore silicone hose autoclavable.
- With build in compressor/ turbine/ battery Backup.
- Should be compatible with 12-V DC and 220 V ,50 Hz AC
- Test Lung Adult/Paeds.
- With turbine, air Compressor (Built-in)

B. <u>Defibrillator.</u>

- Semi-automatic maximum 200 joules biphasic defibrillator with monitor and AED mode.
- Synchronized output with ECG.
- Control of energy charging/ delivering on main panel &apex paddle. Charging Indicators.
- The energy range should be adjustable for Paeds sand adults up to 200 Joules.
- Charging Time for full energy will be less than 10sec.
- Screen Size of approx.5 inch or better colored.
- Display of HR, ECG through paddles and Lead I.II &III patient cable.
- Built in recorder for printing of full summery on standard paper.
- Alarms for High and low Heart rate, low battery warning.
- AC 220V / 50 Hz operated.
- Built-in Rechargeable battery with charger for at least 50 shocks at max. Energy.
- Auto tester/self-check.
- External pediatric and adults Paddles, ECG cable with reusable electrodes for adult &peads.
- AED facility.
- Should be compatible with 12-V DC and 220 V ,50 Hz AC

C. Nebulizer:

- Aerosol with piston Electro compressor.
- Nebulizing rate: 0.35 ml/minute or better
- Compressor Pressure 40 psi or better.
- Compressor air flow: 10lit/min or more.
- Noise Level: 60db or less.
- Granule-metric size of medication: 1-10 microns by means of multi PIPSER Component.
- Should be compatible with 12-V DC and 220 V ,50 Hz AC

D. Suction Machine

- Performance: suction controlled0-25mmHg
- Controls : On/Off switch
- Safety: positive pressure restricted
- With filter.
- Complete with autoclave able receiver jar 2x3000 ml
- Foot switch: 1 No
- Suction tip: 1 No
- Suction pipe 2m with hose.
- With the over flow safety
- Should be compatible with 12-V DC and 220 V ,50 Hz AC

Medical Waste Treatment Units

S.No	Nomenclature	Specification	Qty
1	Medical Waste Treatment Unit 200L	Fully automatic Medical Waste Treatment System with shredding system to treat high biological risk hospital waste such as Syringes, Blades, Needles, Glass, Bandages, Gauze, Catherates, Blood Bags, Urine Bags, Cannula, Cultures, Placentas etc.	
		PLC- Microprocessor Controlled Medical waste treatment system	
		Autoclave Capacity:200 Liters per Cycle	
		Touch Screen System	
		With Shredding system	
		Having ability to shred medical waste in to 2cm pieces or less. With Steam gapagetor.	
		With Steam generatorEquipped with Vacuum pump consists of drying device.	
		Pressure gauge for Chamber & Steam generator.	
		• With RS-232 serial port.	
		With two pre-programmed sterilization cycles With high pressure	
		saturated steam; a) 134°C at 3 bar for 20 minutes or less	
		b) 138°C at 3.5 bar for 10 minutes or less	
		 Unit must be able to perform the following self-diagnosing tests; a) B & D Test 	
		b) Vacuum Leak Test	
		 Medical Waste Treatment Cycle should be consist of; a) Conditioning 	
		b) Heating	
		c) Sterilization	
		d) Drying	
		 e) Aeration Printer for automatic recording of the parameters and the execution of the 	
		cycles, date, time, results of the cycle, operator code, batch number, etc.	
		Display-Touch Screen for Control and Monitoring of following Processes:	
		a) the main menu	
		b) Programmable automatic start up and shut off time	
		c) Door open/closure managementd) Selecting cycle and packing type	
		e) the cycle program	
		f) parameters of the cycle	
		g) Self-check display before starting the cycle	
		h) Data related to the load (operator, batch)i) General system conditions for the cycle execution	
		j) Diagram, in real time, of the variables of the sterilization	
		process	
		k) Display status of cycle, temperature, pressure and time	
		l) Process checkm) status of the shredding system	
		n) Programmed maintenance	
		o) Maintenance instructions	
		p) Alarms	
		q) Date information The status and the deep temperature pressure ampty at a second status and the second stat	
		r) Status/conditions of the door, temperature, pressure, empty, etc.s) Synoptic.	
		t) F0 Calculation	
		u) Visualization of the last 50 cycles (graphical or value	
		parameters). v) With external USB port.	
		v) With external USB port. w) Stand by.	
		 With Protection measures; a) Safety Closure for protection from shredder working. 	
		a) Safety Closure for protection from shredder working.b) Main switch with locking device.	

Emergency button on the control panel for immediate shutdown. With Safety Systems and alarms; a) Signals that occur before, after and during the execution of the cycle, but which do not change the running of the cycle b) Alarm in case of abnormalities (visual and acoustic) which do not affect the execution of the cycle in process. c) Alarm in case of serious abnormalities (visual and acoustic) which effect the execution of the cycle in process. d) Alarms that occur in case of an interruption of the program. Sterilization chamber, jacket and door should be made of AISI 316L stainless steel or better Unit should be equipped with Kit for microbiological testing. With Sterile Filters: a) For the effluent removed from the chamber, contaminated by infective wastes, should pass through a high efficiency filter of 0.2 micron or better that protects the vacuum pump from waste contamination, and should be sterilized by steam before b) Filter of 0.2 micron or better, for the injection of sterile air and for the recovery of atmospheric pressure within the sterilization chamber. c) Unit should be supplied with an extraction fan for further filtration of the air through an active carbon cartridge to reduce the smell of shredded materials. Accessories: Water Softener of appropriate Capacity (Model, make and capacity must be mentioned) Waste Transport Trolley 1 c) RO Plant of appropriate Capacity with storage tank (Model, make and capacity must be mentioned) 1 **Optional:** Fridge (Optional) (model and make must be mentioned): 2 Compartment fridge for storage of bio contaminated waste before treatment Temperature Range: 0-12°C Capacity: 240Litters c) Medical Waste Compactor (Optional) (model and make must be mentioned): To reduce volume to be compacted into DIN container Capacity: 240Litters. Pressure Washer (Optional) (model and make must be mentioned): High pressure hot water cleaning set. Water Temperature: 140°C or more. b) Turbo Pressure: 170 Bar or more. c) Maximum water flow: 800l/h or better. Medical Waste Fully automatic Medical Waste Treatment System with shredding system to treat 2 Treatment Unit high biological risk hospital waste such as Syringes, Blades, Needles, Glass, 300L Bandages, Gauze, Catherates, Blood Bags, Urine Bags, Cannula, Cultures, Placentas etc. PLC- Microprocessor Controlled Medical waste treatment system Autoclave Capacity: 300 Liters per Cycle Touch Screen System With Shredding system Having ability to shred medical waste in to 2cm pieces or less. With Steam generator Equipped with Vacuum pump consists of drying device. Pressure gauge for Chamber & Steam generator. With RS-232 serial port.

- With two pre-programmed sterilization cycles With high pressure saturated steam:
 - a) 134°C at 3 bar for 20 minutes or less
 - b) 138°C at 3.5 bar for 10 minutes or less
- Unit must be able to perform the following self-diagnosing tests;
 - a) B & D Test
 - b) Vacuum Leak Test
- Medical Waste Treatment Cycle should be consist of;
 - a) Conditioning
 - b) Heating
 - c) Sterilization
 - d) Drying
 - e) Aeration
- Printer for automatic recording of the parameters and the execution of the cycles, date, time, results of the cycle, operator code, batch number, etc.
- Display-Touch Screen for Control and Monitoring of following Processes:
 - a) the main menu
 - b) Programmable automatic start up and shut off time
 - c) Door open/closure management
 - d) Selecting cycle and packing type
 - e) the cycle program
 - f) parameters of the cycle
 - g) Self-check display before starting the cycle
 - h) Data related to the load (operator, batch)
 - i) General system conditions for the cycle execution
 - j) Diagram, in real time, of the variables of the sterilization process
 - k) Display status of cycle, temperature, pressure and time
 - Process check
 - m) status of the shredding system
 - n) Programmed maintenance
 - o) Maintenance instructions
 - p) Alarms
 - q) Date information
 - r) Status/conditions of the door, temperature, pressure, empty, etc.
 - s) Synoptic.
 - t) F0 Calculation
 - Visualization of the last 50 cycles (graphical or value parameters).
 - v) With external USB port.
 - w) Stand by.
- With Protection measures;
 - a) Safety Closure for protection from shredder working.
 - b) Main switch with locking device.
 - c) Emergency button on the control panel for immediate shutdown.
- With Safety Systems and alarms;
 - a) Signals that occur before, after and during the execution of the cycle, but which do not change the running of the cycle
 - b) Alarm in case of abnormalities (visual and acoustic) which do not affect the execution of the cycle in process.
 - c) Alarm in case of serious abnormalities (visual and acoustic) which effect the execution of the cycle in process.
 - d) Alarms that occur in case of an interruption of the program.
- Sterilization chamber, jacket and door should be made of AISI 316L stainless steel or better
- Unit should be equipped with Kit for microbiological testing.
- With Sterile Filters;
 - a) For the effluent removed from the chamber, contaminated by infective wastes, should pass through a high efficiency filter of 0.2 micron or better that protects the vacuum pump from waste

- contamination, and should be sterilized by steam before removal.
- b) Filter of 0.2 micron or better, for the injection of sterile air and for the recovery of atmospheric pressure within the sterilization chamber.
- c) Unit should be supplied with an extraction fan for further filtration of the air through an active carbon cartridge to reduce the smell of shredded materials.

Accessories:

- Water Softener of appropriate Capacity (Model, make and capacity must be mentioned) 1
- b) Waste Transport Trolley 1
- RO Plant of appropriate Capacity with storage tank (Model, make and capacity must be mentioned) 1

Optional:

Fridge (Optional) (Model and Make must be mentioned):

- a) 2 Compartment fridge for storage of bio contaminated waste before treatment
- b) Temperature Range: 0-12°C
- c) Capacity: 240Litters

Medical Waste Compactor (Optional) (Model and Make must be mentioned):

- a) To reduce volume to be compacted into DIN container
- b) Capacity: 240Litters.

<u>Pressure Washer (Optional) (Model and Make must be mentioned):</u>

- a) High pressure hot water cleaning set.
- b) Water Temperature: 140°C or more.
- c) Turbo Pressure: 170 Bar or more.
- d) Maximum water flow: 800l/h or better.

Section V. Technical Specifications

<u>Technical Evaluation Criteria for Machinery & Equipment, Instrument and other Hospital supplies etc.</u>

(Maximum Allocable Marks Score = 70 marks)

<u>Note</u>: For further details of evaluation criteria and marking scheme please see section on proformas in these SBDs.

<u>Technical Evaluation Criteria for the Purchase of</u> <u>Category-A Equipment (Section-IV of Statement of Requirement) for the financial year 2017-18</u>

Firm Name:	
Bid Reference No.	

S. No.	Description of Variables	Total points	Remarks
<u>A.</u>	Product Evaluation Parameters		
1	Product General Information		
1.1	Ref. No of item in SBD Schedule of Requirement		
1.2	Name of equipment		
2	Conformance To Specification		
2.1	Fully compliance with the required s specifications as per statement of Requirement (Up to a maximum of four Minor deviations may be accommodated subject to the condition that main function and performance in any aspect would not affect. However, up to four marks will be deducted).	40	
2.2	Additional features of the product (One mark for each additional feature)	6 (46)	
3	Product International Certification		
3.1	Certificate of US Food and Drug Administration (US FDA)		
3.2	Certificate of European Community MDD (CEMDD)	No marks, being m	andatory parameter
3.3	Certificate of Japan Indus trial Standard (JIS PAL)	mandatory).	nes out of tillee is
3.4	Weightage for local Pakistani original manufacturer	4 (50)	

<u>4</u>	Product Local Performance		
4.1	One mark for each satisfactory performance certificate on letter head of hospital, for quoted model or at least the previous provided model of equipment from the public sector medical institution of Pakistan	3 (53)	
4.2	One mark for each satisfactory performance certificate on letter head of hospital for quoted model or at least the previous provided model of equipment from the teaching level private sector medical	3 (56)	
4.3	Warranty Period three years both with spare parts and services & Next two year services without parts, from the date of installation	4 (60)	
	Total score of the Product Evaluation	60 (100)	
<u>B</u>	Firm Evaluation Parameters		
1	Personnel/Human Resource		
1.1	Simple Technician (6 months/12 months certificate)	2	
1.2	Associate Engineer with Diploma of Associate Engineer	2 (4)	
1.3	Graduate Engineer duly registered with PEC/MSc Electronics with minimum five years experience Note: Salary slip and bank account statement must be provided.	5 (9)	
<u>2</u>	Workshop facility Testing/Calibration of Equipment		
2.1	Availability of works hop in Khyber Pakhtunkhwa	5 (14)	
2.2	Availability of works hop at National level	5 (19)	
2.3	List of related tools for the quoted items	5 (24)	
2.4	Detail of Spare parts availability (for the quoted items)	5 (29)	
2.5	Testing tools (for quoted items)	5 (34)	
<u>3</u>	Manufacturer Performance		
3.1	Valid ISO 14001 (Environment Certificate)	2 (36)	
3.2	Valid ISO 9001 Quality Management Certificate	2 (38)	
3.3	Valid ISO 13485 Quality Management Certificate for design and manufacture of medical devices.	2 (40)	
	Total Score of the Firm	40 (100)	
A+B	Total Technical Score	60+40 (100)	=

<u>Technical Evaluation Criteria for the Purchase of</u> <u>Category-B Equipment for the Financial Year 2017-18</u> (Maximum Allocable Marks Score = 70 marks)

NOTE:

For further details of evaluation criteria and marking scheme, please see section on proformas in these SBDs.

in these SBDs.			
Firm Name:Bid Reference No	_		

S. No.	Description of Variables	Total points	Remarks
<u>A.</u>	Product Evaluation Parameters		
1	Product General Information		
1.1	Ref. No of item in SBD Schedule of Requirement		
1.2	Name of equipment		
2	Conformance To Specification		
2.1	Fully compliance with the required specifications as per statement of Requirement (Up to a maximum of four Minor deviations may be accommodated subject to the condition that main function and performance in any aspect	30	
2.2	Additional features of the product (One mark for each additional feature)	4 (34)	
3	Product Certification		
3.1	Certificate of US food and Drug Administration (US FDA)	4 (38)	
3.2	Certificate of European community MDD (CEMDD)	4 (42)	
3.3	Certificate of Japan Industrial Standard (JIS PAL)	4 (46)	
3.4	Weightage for local Pakistani original manufacturer	4 (50)	
4	Product Local Performance		
4.1	One mark for each satisfactory performance certificate on letter head of hospital for quoted model or at least the previous provided model of equipment from the public sector medical institution of Pakistan	3 (53)	

4.2	One mark for each satisfactory performance certificate on letter	3 (56)	
	head of hospital for quoted model or at least the previous provided model of equipment from the teaching level private		
4.3	sector medical institution of Pakistan Warranty Period three years both with spare parts and services & Next two year services without parts, from the date of installation	4 (60)	
	Total score of the Product Evaluation	60 (100)	
<u>B</u>	Firm Evaluation Parameters		
1	Personnel/Human Resource		
1.1	Simple Technician	2	
1.2	Associate Engineer with Diploma of Associate Engineer	2 (4)	
1.3	Graduate Engineer duly registered with PEC/MSc Electronics with minimum five years experience. Note: Salary slip and bank account statement must be provided.	5 (9)	
<u>2</u>	Workshop facility Testing/Calibration of Equipment		
2.1	Availability of workshop in Khyber Pakhtunkhwa	5 (14)	
2.2	Availability of workshop at National level	5 (19)	
2.3	List of related tools for the quoted items	5 (24)	
2.4	Detail of Spare parts availability (for the quoted items)	5 (29)	
2.5	Testing tools (for quoted items)	5 (34)	
3	Manufacturer Performance		
3.1	Valid ISO 14001 (Environment Certificate)	2 (36)	
3.2	Valid ISO 9001 Quality Management Certificate	2 (38)	
3.3	Valid ISO 13485 Quality Management Certificate for design and manufacture of medical devices.	2 (40)	
	Total Score of the firm.	40 (100)	
A+B	Total Technical Score	60+40 (100)	=

<u>Technical Evaluation Criteria for the Purchase of</u> <u>Category-C & D Items for the Financial Year 2017-18</u>

Firm Name:	
Bid Reference No.	

S. No.	Description of Variables	Total points	Remarks
<u>A.</u>	Product Evaluation Parameters		
1	Product General Information		
1.1	Ref. No. of item in SBD Schedule of Requirement		
1.2	Name of equipment		
2	Conformance to the specification subject to the clearance on Sample test		
2.1	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the committee	40	
<u>3</u>	Warranty Period		
3.1	One year for instruments and three year for beds & other hospital Supplies with replacement/repair of product (in addition to product standard warranty)	10 (50)	
<u>4</u>	Past Performance for the last five years		
4.1	Two marks for each satisfactory performance certificate on letter head of hospital for quoted item from the public sector hospitals	10 (60)	
4.2	Two marks for each satisfactory performance certificate on letter head of hospital for quoted items from the private sector teaching medical institution of Pakis tan	10 (70)	
	Total score of the Product Evaluation	70 (100)	
<u>B</u>	Firm / bidder Evaluation Matrix		
1	Legal Requirements		
1.1	The bidder will have to give valid proof of being manufacturer/importer/authorize dealer	10	
1.2	Last three-year annual income tax return two marks for each year.	6 (16)	
1.3	Last three-year annual sales tax returns two marks for each year.	6 (22)	
1.4	Last three year Annual turn over	3 (25)	
<u>2</u>	Networking facility		
2.1	Detail of networking set up / branch office in Khyber Pakhtunkhwa	5 (30)	
	Total Score of the firm	30 (100)	
A+B	Total technical Score	70+30 (100)	=

<u>Technical Evaluation Criteria for the Purchase of Category-E Items for the Financial Year 2017-18</u>

(Maximum Allocable Marks Score = 70 marks)

Firm Name:	
Bid Reference No:	

S. No.	Description of Variables	Total points	Remarks
<u>A.</u>	Product Evaluation Parameters		
1	Product General Information		
1.1	Ref. No of item in SBD Schedule of Requirement		
1.2	Name of equipment		
2	Conformance To Specification		
2.1	Fully compliance with the required s specifications as per statement of Requirement (Up to a maximum of four Minor deviations may be accommodated subject to the condition that main function and performance in any aspect would not affect. However, up to four marks will be deducted).	30	
2.2	Additional features of the product (One mark for each additional feature)	4 (34)	
3	Requisite Certifications for the Bid		
3.1	Authorization Certificate of Manufacturer if the bidder is not a Manufacturer (i.e. Chassis / Superstructure). The manufacturer should meet all the criteria given in these documents.)	No marks, being mandatory parameter	
3.2	Registration with PEC in relevant category & Code (Up to Project Value of 300 Million)		
3.3	Certificate of US-FDA/(CEMDD)/(JIS) for Transport ventilator and Defibrillator (Any two certificates out of three is mandatory).		
3.4	Valid Registration with Sales & Income Tax Authorities		
3.4	Weightage for local Pakistani original manufacturer (OEM certificate from PEC or any other relevant body)	6 (40)	

<u>4</u>	Product Performance index	
4.1	Minimum 05 years of successful fabrication. (Satisfactory performance certificate on letter head of hospital from at least 03 users. (2 marks per certificate)	6 (46)
4.3	Warranty Period three years both with spare parts and services & Next two year services without parts, from the date of handing/taking over	6 (52)
	Total score of the Product Evaluation	52 (100)
<u>B</u>	Firm Evaluation Parameters	
1	Audited Balance Sheets & Income Tax return for last three years (each year 2 marks with Sales above Rs.200.0 million per year)	06
1.2	Financial Soundness exhibiting last three years bank statement showing capability to execute Contract. (Rs.100 M/PKR or above) (03 marks per certificate)	09 (15)
1.3	Minimum 03 contracts of fabrication completed. (Min. Rs.200.00 M or above (02 points per contract)	06 (21)
<u>2</u>	Workshop facility Testing/ Calibration of Equipment	
2.1	3S Facility at Peshawar- Khyber Pakhtunkhwa	5 (26)
2.3	After Sales satisfactory certificate from at least 03 users of same items (Per certificate 2 Nos.)	6 (32)
2.4	Detail of Spare parts availability (for the quoted items)	5 (37)
2.5	Mobile After Sales Vans in Peshawar for onsite repair & maintenance of Vehicles & Equipment.	5 (42)
<u>3</u>	Manufacturer Performance	
3.1	Valid ISO 14001 (Environment Certificate)	3 (45)
3.2	Valid ISO 9001 Quality Management Certificate	3 (48)
	Total Score of the Firm	48 (100)
A+B	Total Technical Score	52+48 (100) =

<u>Technical Evaluation Criteria for the Purchase of Category-F Items for the Financial Year 2017-18</u>

(Maximum Allocable Marks Score=70marks)

<u>Note</u>: For further details of evaluation criteria and marking scheme please see section non proformas in these SBDs.

Firm Name:	
Bid Reference No:	

S. No.	Description of Variables Total points Remarks						
<u>A.</u>	Product Evaluation Parameters						
1	Product General Information						
1.1	Ref. No of item in SBD Schedule of Requirement						
1.2	Name of equipment						
<u>2</u>	Conformance To Specification						
2.1	Fully compliance with the required s specifications as per statement of requirement (Up to a maximum of four Minor deviations may be accommodated subject to the condition that main function and performance in any aspect would not affect. However, up to four marks will be deducted).	40					
2.2	Full load test report from manufacturer	6(46)					
3	Product Certification						
3.1	Authorization certificate from the manufacturer if the bidders is not a manufacturer	No marks,being mandat	tory parameter				
3.2	Service Manuals with circuit diagram for repair and maintenance of Electrical/Mechanical (Soft & Hard Copy)						
3.1	In case of manufacturer provision of OEM certificate. (OEM means that whole unit must be packaged by the manufacturer of the engine & no third party packaging is allowed.						
3.2	Registration with PEC in Codes ME03 & ME04						

4	Product Local Performance		
4.1	Down time for response to the fault 02 working days from first communication from PE 03 working days from first communication from PE 05 working days from first communication from PE 02	10 (56)	
4.2	Comprehensive Warranty of 12 months (irrespective of running hors) with parts and services from date of commissioning.	4(60)	
	Total score of the Product Evaluation	60 (100)	
<u>B</u>	Firm Evaluation Parameters		
2.1	Audited Balance Sheets , Income Tax return & Sales tax returns for last three years 03 marks for each year (Rs 100 Million or above)	9	
2.2	Fully Functional workshop at Peshawar	8(17)	
2.3	Fully Functional workshop at national level	6(23)	
2.4	Mobile after sales vans in Peshawar for on sight repair	7(30)	
2.5	Local Training of Technical Staff (02 person)	4(34)	
2.6	Valid ISO 14001 (Environmental Certificate)	3 (37)	
2.7	Valid ISO 9001-2008 Quality management Certificate	3(40)	
	Total Score of the Firm	40 (100)	
A+B	Total Technical Score	60+40 (100)	=

Section V. Technical Specifications (Continued)

Financial Evaluation and Scoring System for Bids

(Maximum Allocable Marks Score = 30 marks)

The financial bids of technically qualified bidders will be opened publicly at the time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned un-opened to the respective Bidders.

Total Allocable marks for Technical Proposal = 70

Total Allocable marks in Financial Proposal= 30

Total Combined Allocable Score for individual bids =Marks obtained in Technical Evaluation + Marks obtained in Financial Evaluation = 100

Scoring Methodology:

Contract will be awarded to the best evaluated fair and responsive bidder whose product ranks highest in the Combined Evaluation scoring calculated through the Marks awarded to Technical Proposal and Financial Proposal as stated in the Bid Data Sheet of these Standard Bidding Documents.

The Evaluation Methodology is a combination of non-price factors (in Technical Criteria) and price factor (in Financial Criteria); and each having points as elaborated in the evaluation preforms provided in these SBDs.

Procedure for the Marks Scoring: Marks will be awarded or otherwise for various technical parameters to each quoted product based on the prescribed Technical and Financial criteria. The total combined marks will determine the highest-ranking product in each product category for contract award.

The formula to calculate the marks for the price by the bidders other than lowest bidder is given below:

Financial Evaluation Score of individual quoted Product:

= [Lowest quoted Price of the item ÷ Next higher proposed Price of the competing item] x Total allocable financial score

Solved Example of Financial Scoring:

- If the lowest quoted price of an item is Rs. 86/-, the same lowest bidder will obtain score as below:
 - $= [86 \div 86] \times 30$
 - = 30 marks, being the lowest bidder for the quoted item.
 - If the next higher quoted price of the same item is Rs. 105/-, the marks obtained will be:
 - $= [86 \div 105] \times 30 = 24.57 \text{ Marks}$
 - If the next higher quoted price of the same item is Rs. 130/-, the marks obtained will be:
 - $= [86 \div 130] \times 30 = 19.84 \text{ Marks}$
 - And so on.

Section VI. Sample Forms

MANDATORY STANDARD FORMS (1 to 5)

BID FORM 1: BID COVER SHEET

BID FORM 2: LETTER OF INTENTION

BID FORM 3: AFFIDAVIT

BID FORM 4: PRICE SCHEDULE FORMAT FOR FINANCIAL BID

(To be submitted in separate sealed envelope)

BID FORM 5: INTEGRALITY PACTS

CONTRACT AGREEMENT (for information only, shall be signed by the successful bidders only)

BID FORM-1

BID COVER SHEET

Mandatory General Information of Applicant Firm

<u>NOTE:</u> Complete filling of this form along with the provision of all requisite information is mandatory. Missing or not providing any of the requisite information may lead to dis-qualification of the bidder/s from the bidding competition without any correspondence. Any appeal from bidder/s, for whatsoever reasons, will not be entertained in such a case.

S.No.	Name of the Bidding Firm:	
1.	Pleas e indicate whether the firm is: i. Manufacturer, or ii. Importer, or iii. Both; For various items offered for this bidding competition.	
2.	Please indicate the category/ies under which the Firm is applying for bidding i. Machinery & Equipment ii. Instrument/ other Hospital supplies iii. General items iv. Office equipment v. Bedding & Clothing	
3.	Pleas e provide names, attested copies of CNICs, two recent attested photographs, valid street addresses in Pakis tan, all landline and mobile phone numbers of: i. Owner/Proprietor of the Firm; and ii. Managing Director / CEO of the Firm; and iii. Focal person officially made responsible and authorized by the Firm for day-to-day official correspondence with Procurement cell DGHS. iv. (Pleas e provide clear, legible and visible attested photocopies of all the requisite items mentioned items)	
4.	Pleas e provide the following valid information Regarding applicant Firm: I. Complete street address of the: a. Head Office b. Main warehouse; and II. Valid & working official Landline Phone and Fax Numbers; and III. Mobile phone numbers of the Focal Person registered against his /her CNIC No. And name; and IV. Valid and functional Email address; and V. Official Website address /es.	
5.	envelope in the form of valid Call Deposit Receipt / Bar from a scheduled Bank of Pakistan in the name of Direct security shall render the bid as non -responsive. ii. However, please provide an affidavit on judicial Envelope of the technical propos al to the effect that the	instrument along with the Financial Propos al in the sealed k Draft / Pay Order / Bank Guarantee of the requisite amount or General Health Services, Peshawar. Non- provision of bid stamp paper of appropriate face value in the sealed bid security of the required amount (without mentioning the ope of the financial bid except where flat rates in bid security

6.	Pleas e provide attested copies of the following Tax related mandatory documents:
	i. National Tax Number (NTN) of the Firm (FTN) for Income Tax, andii. Last year Income Tax Return of the Firm; and
	iii. Sales Tax Registration Certificate of the Firm; and
7.	In case of being manufacturer, the Firm should provide attested copies of the following mandatory documents also:
	i. Duly attested copy of valid Certificate from Chamber of Commerce of the
	respective country
8.	In case of being importers, the Firm should provide attested copies of the following mandatory document/s also:
•	i. Valid Authorization Certificate for the quoted items, duly attested by the Embassy concerned.
9.	The bidding Firm should also provide an Affidavit to undertake on Judicial Stamp Paper of the value of at least
	Rs. 100/- (Rs. One Hundred Only) to the effect that:
	i. They have carefully read the whole set of Standard Bidding Documents for this bidding competition and that
	they have fully understood and agree to the terms and conditions, evaluation criteria, mechanism of evaluation & selection of items for which the Firm has applied for competition; and
	ii. They fully understand and agree that the bidding competition for which they have applied to enter in, s hall
	Be based on merit based s coring system for the evaluation of technical b ids which has invers e relations hip with the
	rates quoted by the bidders in their financial bids submitted; and that in this situation, the lowest financial bid/s may or
	may not win the bidding competition; and
	iii. They guarantee that the quoted items are and will be freely available in the market of Pakis tan; and
	Particularly the market of Khyber Pakhtunkhwa Province; and
	iv. They s hall provide the evaluating teams authorized for the purpose by the Health Department Khyber
	Pakhtunkhwa; an uninterrupted and free access to all relevant documents, sections of the manufacturing facilities and
	warehousing facilities as well as any other area relevant to the purpose of such teams in their opinion; and
	v. In case any documents submitted in relation to this bidding competition or any undertaking given by the
	Firm, if found incorrect or false or misleading or diverting the decision making for the competition, s hall be liable to
	be proceeded for blacklisting for any business with / by the Government of Khyber Pakhtunkhwa, Health Department,
	confiscation of bid security and / or any other lawful action as deemed appropriate by the Government of Khyber Pakhtunkhwa.
	Pakhtulikilwa.
10.	I certify and affirm that I have attached all the requisite mandatory documents / information including Bid Security
10.	with this Bid and that I fully understand that any document if not provided / missing shall result in the dis
	qualification and declaring my bid as ineligible and thus non -responsive.
	quantication and declaring my old as mengiote and thus non-responsive.
	Signatures:
	Name:
	CNIC No.
	Designation:
	Address:

Bid Form 2

Letter of Intention

Bid Ref No.
Date of the Opening of Bids

Name of the Contract: {Add name. e.g. Supply of machinery & equipment, instruments and other hospital supplies, 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 financial bid are not more than a trade price & the prices are not more than the market rates.

We undertake, if our bid is accepted, to deliver the Goods in accordance with terms and condition of contract agreement.

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.

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 3

AFFIDAVIT (on Judicial Stamp Paper)

I/We, the undersigned [Name of the Supplier] hereby solemnly declare and Undertake that:

- 1) We have read the contents of the Bidding Document and have fully understood it.
- 2) The Bid being submitted by the undersigned complies with the requirements enunciated in the bidding documents.
- 3) The Goods that we propose to supply under this contract are eligible goods within the meaning of this SBD.
- 4) The undersigned are also eligible Bidders within the meaning of the Standard Bidding Documents.
- 5) The undersigned are solvent and competent to undertake the subject contract under the Laws of Pakistan.
- 6) The undersigned have not paid nor have agreed to pay, any Commissions or Gratuities to any official or agent related to this bid or award or contract.
- 7) The undersigned are not blacklisted or facing debarment from any Government, or its organization or project.
- 8) That undersigned has not employed any child labor in the organization/unit.
- 9) We understand that the Selection and Rate Contracting Committee of the Procuring Agency is not bound to accept the lowest or any other bid they may receive.

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

Signatures with stamp
Name:
Designation:
CNIC No
For, Messer.[Name of Supplier]

Bid Form-4

Note: This form is to be submitted in separate sealed envelope

Price Schedule format for Financial Bid of Machinery & Equipment, Instruments and other Hospital supplies etc. for the year 2017-18

1. In case of Machinery & Equipment.

S. No	Serial No. of	Name of the item	Number of	Rate	Total Price of the
	quoted item in		item	offered	bid in Pak. Rupees
	Statement of			per Unit	(Rs)
	Requirement of				
	these SBDs				
	2016-17				

Bid Form-5

INTEGRITY PACT (on Judicial Stamp Paper)

<u>Declaration of Fees, Commission and Brokerage etc Payable by Manufacturers, Importers for the supply of Machinery & Equipment, Ambulance with Ambulatory items, Instrument and other Hospital supplies etc. 2017-18</u>

]	n respo	nse to	o adve	ertisement	related	d to the	e bidding	g process / c	ompe	ition reg	garding
purchase	and sup	ply of	machi	nery and e	quipme	ent, instr	ument an	d other hospi	tal sup	plies for	
2016-17	for	the 1	health	facilities	/ ins	titutions	through	Procurement	Cell,	DGHS	I, Mr.
_					s/o				t	earing	CNIC
No				, And hav	ing	the		Designatio	n		of
				In 1	Messrs	. (M/S)	[Name	of Supplier]	do he	reby sol	emnly
Affirm,	declare		and c	ertify on b	ehalf o	of M/S	Name of	f Supplier] tha	at:		

- 1. [Name of Supplier] has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Khyber Pakhtunkhwa (GoKP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoKP through any corrupt business practice; and
- 2. That without limiting the generality of the foregoing, [Name of 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 inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoKP, except that which has been expressly declared pursuant hereto; and
- 3. That [Name of Supplier] has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoKP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty; and
- 4. That *[Name of 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 rights and remedies available to GoKP under any law, contract or other instrument, be voidable at the option of GoKP; and
- 5. That notwithstanding any rights and remedies exercised by GoKP in this regard, [Name of Supplier] agrees to indemnify GoKP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoKP in

an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of 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 GoKP.

Signatures with stamp
Name:
Designation:
CNIC No
Messer.[Name of Supplier]

Witness No. 1 Witness No. 2

(Signatures, name, father's name, CNIC & address of each Witness)

RATE CONTRACT AGREEMENT (for successful bidders)

THIS RATE CONTRACT AGREEMENT is made and agreed today on _____ day of [Month],

2016 between the Government of Khyber Pakhtunkhwa Health Department through Director
General Health Services (hereinafter referred to as the Procuring Agency or the first party, which
expression shall, where the context admits, be deemed to include the assignee/s of the provincial
Government of Khyber Pakhtunkhwa); and Messrs.[Name of Supplier] through
MrDesignation
CNIC No, (hereinafter referred to as the Supplier or the
second party or he/his, which expression, unless repugnant to the context, means and includes
their legal heir/s, successors-in-interest, assignee/s and legal representative/s) that:
WHEREAS the Procuring Agency has made a bidding competition for selection and rate
contracting for supply of machinery & equipment, instruments and other hospital supplies
(hereinafter referred to as goods) for actual purchases of the selected and rate contracted goods to
be made by the offices / officers of the Health Department, Government of Khyber Pakhtunkhwa
(hereinafter called the Purchasing Agency or Purchasing Agencies where the context so admits);
and

WHEREAS the Supplier declares that he is not a broker, middle-man, distributor or authorized dealer but himself a Manufacturer and / or direct Importer of goods for which he has won the bidding competition for supply of goods to the Procuring Agency throughout the province of Khyber Pakhtunkhwa (hereinafter referred to as the Province) to the Purchasing Agencies; and WHEREAS both the parties have agreed that the Purchasing Agencies in the Province shall purchase all or some or none of the goods, as of details given in the Schedule-1 of this Contract Agreement, from the Supplier at the sole discretion of the individual Purchasing Agencies; and WHEREAS the Supplier shall supply all the goods ordered by the Purchasing Agency to the latter in the quantity as mentioned in clause 17 of this contract agreement; Now, therefore, both the parties mutually agree to enter into this contract agreement as under:

- 1. The Supplier agrees to take full responsibility of the validity and implications, that may arise in future, of declaration submitted by him in the form of affidavit on judicial stamp paper along with the financial bids; and also that in case of any kind of breach of the said declaration, the Supplier shall be liable to be proceeded against by the Procuring Agency in accordance with the clauses of this rate contract agreement as well as relevant laws, rules and regulations of the Government of Khyber Pakhtunkhwa, as amended from time to time, to govern the situation/s.
- 2. The Supplier shall supply the ordered goods to the Purchasing Agency exactly at the address of the official premises situated within the district of the official jurisdiction of the latter as given in the supply order issued to the former.
- 3. The Supplier shall be solely responsible for transportation, loading and / or unloading and staking of the supplied items till and at the time of delivery to the destination indicated by the Purchasing Agency including any damage or untoward incidence, maintenance of required temperature and protection from light and other environmental conditions as well as other hazards that may possibly or potentially affect the safety, quality and efficacy of the supplied items.
- 4. The Supplier shall NOT claim or charge transportation, loading / unloading, labor or any other charges—related to or in the name of logistics, accidents, insurance, freight, etc.
- 5. The Procuring Agency shall arrange to obtain sample/s from each supplier before finalization of award with the successful bidder in each category.

- 6. The Supplier will arrange demo for the physical inspection to the Procuring Agency and shall bear the associated cost.
- 7. The Supplier will make necessary arrangements including on job training to the end user as well as related engineer before release of final payment or damage liability period is over.
- 8. The Supplier will provide Service Manual, Circuit diagram and error logbook and operational Manual for the supplied goods.
- 9. In case of non-supply or delayed supply of items the Supplier shall be proceeded against under the relevant law of the land i.e. Procurement regime and associated country laws.
- 10. The Purchasing Agency shall recommend to the Procuring Agency for taking legal / lawful action against the Supplier regarding non-supply, short supply, substituted supply, delayed supply or any other unlawful action / shortcoming, on the part of Supplier during the execution of this contract agreement. The Procuring Agency shall take lawful / legal action against the Supplier in accordance with the clauses of this contract agreement as well as relevant laws, rules and regulations of the Government of Khyber Pakhtunkhwa, as amended from time to time, to govern suchlike situation/s, which may include, but not limited to, blacklisting, forfeiture of earnest money and performance guarantee, etc.
- 11. The Supplier agrees to the following conditions related to packing, packaging and labeling of the goods to be supplied to Purchasing Agencies under this contract agreement:
- 12. The Procuring Agency or its representative shall have the right to inspect the manufacturing facility, premises, warehouse, godowns, laboratories etc. at any time during the financial year 2015-16 and/or till the execution of supply orders given under this contract agreement by

Purchasing Agencies Khyber Pakhtunkhwa.

13. RATE VALIDITY:

The Supplier agrees that the approved price of all individual items quoted in the financial bids shall remain valid till and up to 30th June 2017.

14. PERFORMANCE GUARANTEE:

Upon receipt of supply order from the Purchasing Agency, the Supplier shall submit Performance Guarantee to the former, amounting to ten per cent (10% i.e. 8+2%) of the total value of the each individual supply order, which shall be returned to the Supplier upon request after the successful finalization of the process of procurement by the Purchasing Agencies.

15. WARRANTY:

The supplier shall provide warranty on prescribed form to the Purchasing Agency for each item supplied in response to supply orders.

16. PAYMENT SCHEDULE:

Bill for payment in triplicate along with all other relevant and required documents shall be submitted by the Supplier, to the Procuring Agency immediately after complete supply of stock. The Supplier shall be bound to pay all sorts of government taxes, duties and stamp duties, imposed earlier or during the financial year by the Government of Pakistan or by the Provincial Government of Khyber Pakhtunkhwa on any supplied / purchased item.

17. FORCE MAJEURE:

- a. In case of the situation related to Force Majeure, the Supplier may inform the Procuring Agency and the Purchasing Agency in writing about the situation immediately without delay along with solid proof through the fastest, lawful and available means of communication, but not through the electronic mail, and request the Procuring Agency for the grant of extension in the supply period.
- b. The Procuring Agency, in case of being fully satisfied with the genuineness of situation arising from Force Majeure for the Supplier, may extend the period of supply of goods up to a maximum of not more than thirty days without penalty. However, the Procuring Agency and / or Purchasing

Agency shall, in no case, be responsible or held responsible for any complications in making payments to Supplier by the Purchasing Agency that may arise from the closure of financial year and lapse / surrender of public funds vis-à-vis the normal financial management procedures in public sector.

18. PENALTIES:

- A: The Supplier shall complete the supply of the ordered goods under this agreement within the stipulated period as laid down in the SBDs. In case of delay in supplies reaching to the Purchasing Agency, except in situation/s covered under clause 17 above, the following penalties shall be imposed by the Purchasing Agency upon the Supplier:
 - i. For delay in supply from one day up to fifteen days, a lump sum penalty amounting to three per cent (03%) of the total bid price of the total number of item/s supplied late shall be levied through deducting the total amount of penalty from the total pre-tax payable billed amount by the Purchasing Agency.
 - ii. For delay in supply from sixteen days up to thirty days, a lump sum total penalty amounting to seven per cent (07%) of the total bid price of the total number of item/s supplied late shall be levied through deducting the total amount of penalty from the total pre-tax payable billed amount by the Purchasing Agency.
 - iii. Upon delay in supply more than thirty days, the supply contract shall stand cancelled and the ten percent performance guarantee shall stand forfeited and Procuring Agency shall have the right, duty and authority to impose any or all of the below mentioned penalties; that is
 - a. Forfeiting the earnest money and performance guarantee of the Supplier related to this contract agreement; and
 - b. Immediately debarring the Supplier from future participation and business for at least next three (03) calendar years with the Procurement Cell or any other health institution, project and / or Program directly or indirectly run or implemented by or through the provincial Health Department or autonomous Medical Teaching Institutions or district governments in Khyber Pakhtunkhwa; and
 - c. Initiating the process for and recommending for blacklisting of the Supplier with the Agencies; and
 - d. Proceeding for de-registration of the winning bidder under the relevant laws as well as further judicial proceedings, if the situation so warrants in the opinion of Procuring Agency.
- B. In case of delay of more than thirty days extended period as in clause 17 above, the contract shall stand cancelled and the performance guarantee of ten per cent shall stand forfeited.

1819. INDEMNITY:

- a. Notwithstanding any rights, duties and / or remedial measures and / or managerial actions taken and / or to be taken and / or any powers exercised and /or to be exercised by the Procuring Agency and / or Purchasing Agency and / or Purchasing Officer/s with regard to the execution of this contract agreement, the Supplier agrees to indemnify them for any loss or damage incurred or inflicted upon by them in individual or official capacity upon the Supplier whether through any of their actions and / or practices and / or otherwise.
- b. The Supplier further agrees to pay compensation to the Government of Khyber Pakhtunkhwa of an amount equivalent to ten times the sum of any commission, gratification, bribe or kickback and / or finder's fee given by the Supplier for the purpose of obtaining and /or inducing the procurement of any contract, right, interest, privilege or other obligation/s or benefit in whatsoever form, from the Procuring Agency or any of the Purchasing Agencies.

20. RESOLUTION OF DISPUTES:

- a) The Purchasing Agency and the Supplier shall make every effort to resolve amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the contract / supplies.
- b) Despite such negotiation if the Purchasing Agency& Supplier have been unable to resolve amicably a contract dispute, either party may refer the case to Secretary Health Khyber Pakhtunkhwa for decision through a Dispute Resolution Committee under the chairmanship of Secretary Health Khyber Pakhtunkhwa with Director General Health Services, Khyber Pakhtunkhwa and Additional Secretary Health (Development) Khyber Pakhtunkhwa as members. The decision of the Dispute Resolution Committee shall be final and binding upon both the parties.

Signature Signature:

Director General Health Services Name:

Khyber Pakhtunkhwa Designation

For and on behalf of Government of CNIC No.

Khyber Pakhtunkhwa, Stamp:

Health Department Peshawar For and on behalf of the Bidder

WITNESS NO. 1 WITNESS NO. 2

Signature: Signature: Name: Name:

Father's Name: Father's Name: Address: Address:

Address: Address: CNIC No. CNIC No.