BID SOLICITATION DOCUMENTS (BSD) Under National Competitive Bidding (NCB)



SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC. FOR THE YEAR 2021-22.

Health Department

Government of Khyber Pakhtunkhwa.

PART ONE (UNCHANGEABLE)

- o Instructions to Bidders (ITB)
- o 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) 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 and will result in Framework agreement with the successful bidder.

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 **Part one**, which includes

Section I, <u>Instructions to Bidders (**ITB**)</u>, and **Section II,** <u>General Conditions of Contract (**GCC**).</u>

Data and provisions specific to each procurement and contract are included in <u>Part Two</u> which is further organized into six sections. Sections I, II, III, IV, and V, respectively contain Invitation for Bids; Bid Data Sheet; Special Conditions of Contract; Schedule of Requirements; Technical Specifications; and the forms to be used, while Section VI 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 Part 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

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		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 Fund 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. Source of Funds		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 term 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.
		2.1	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. Eligible Bidders		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.
	3.1	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.
	3.2	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 from its components.
3. Eligible Goods & Services	3.3	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.

A. The Bidding Documents

5. Content of Bidding		The bidding documents include: a) Instructions to Bidders (ITB)
document		b) Bid Data Sheet
		c) General Conditions of Contract (GCC)
		d) Special Conditions of Contract (SCC)
	5.1	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		An interested Bidder requiring any clarification of the documents may
of Bidding	6.1	notify the Procuring agency in writing. The Bidding Procuring agency
document		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		At any time prior to the deadline for submission of bids, the
of Bidding	7.1	Procuring agency, for any reason, whether at its own initiative or
document		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.

B. Preparation of Bids

8. Language of Bid		The bid prepared by the Bidder, as well as all correspondence and
J. Lunguage of Dia		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
	8.1	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		The bid prepared by the Bidder shall comprise the following
Comprising of Bid		Components:
		a) Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12.
	0.1	b) Documentary evidence established in accordance with ITB
	9.1	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;
		d) Bid security furnished in accordance with ITB Clause 15.
10. Bid Form		The Bidder shall complete the Bid Form and the appropriate Price
	10.1	Schedule furnished in the bidding documents, indicating the goods
		to be supplied, a brief description of the goods, and 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 the
		comparison of bids by the Procuring agency and will not in any way
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		limit the Procuring agency's right to contract on any of the Terms
		offered.
	11.4	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	13.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid,
Establishing		documents establishing the Bidder's eligibility to bid and its
Bidder's		Qualifications to perform the contract if its bid is accepted.
Eligibility and	13.2	The documentary evidence of the Bidder's eligibility to bid shall
Qualification		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	14.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid,
Establishing		documents establishing the eligibility and conformity to the bidding
Goods' Eligibility and		documents of all goods and services, which the Bidder proposes to
Bidding		Supply under the contract.
Documents	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;
		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.
15. Bid Security	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.
	15.4	Any bid not secured in accordance with ITB Clauses 15.1 and 15.3
	13.4	
		will be rejected by the Procuring agency as non-responsive, Pursuant
	15.7	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
	1	Didder signing the contract pursuant to ITD Clause 22 and
		Bidder signing the contract, pursuant to ITB Clause 32, and Furnishing the performance security, pursuant to ITB Clause 33.

16. Period of	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. Bids shall remain valid for the period specified in the Bid Data Sheet
Validity of Bids		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
		Awarded the contract.

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.1 The envelopes shall then be sealed in an Outer envelope. 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, Ito 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 —Latel. 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. 19.1 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. 19.2 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 accordance with ITB Clause 7, in which case all rights and obligations of the Procuring agency and bidders previously subject to the deadline Will bid a prehid 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 21.1 Modification And Withdrawal Of Bids 21.2 The Bidder's modification or withdrawal is bid	10.0 22	10.1	m Dil 11 11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1
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Than the deadline for submission of bids.			_
		1	1 1
No bid may be modified after the deadline for submission of bids.			
		21.3	No bid may be modified after the deadline for submission of bids.

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.

D. Opening and Evaluation of Bids

22. Opening of	22.1	The Procuring agency will open all bids in the presence of bidders'
Bids by the Procuring		representatives who choose to attend, at the time, on the date, and at
Agency		the place specified in the Bid Data Sheet. The bidders'
rigency		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
		rejected a 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
	22.3	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	23.1	During evaluation of the bids, the Procuring agency may, at its
of Bids		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	24.1	
Examination	24.1	The Procuring agency will examine the bids to determine whether
Lammation		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 be rejected,
		and its bid security may be forfeited. If there is a discrepancy
		between words and figures, the amount in words will prevail.
	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.
		the relative failking of any Didder.

	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
	24.5	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	25.1	The Procuring agency will evaluate and compare the bids which
Comparison		have been determined to be substantially responsive, pursuant to ITB
of Bids		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
		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
	23.3	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.
l .	I	n. In the reclinical opecifications.

25.4	For factors retained in the Bid Data Sheet pursuan or more of the following quantification methods videtailed in the Bid Data Sheet: a.Incidental costs provided by the bidder will be adagency to the delivered duty paid (DDP) pridestination. B.Delivery schedule. 1. The Procuring agency requires that the goods up to the delivered duty paid (DDP) and the procuring agency requires that the goods up to the delivered duty paid (DDP) are destination.	will be applied, as lded by Procuring ice at the final
	Invitation for Bids shall be delivered at the time S Schedule of Requirements, which will be treated delivery—adjustment will be calculated for bid percentage, specified in the Bid Data Sheet, of the second secon	ed as the base, a ds by applying a
	each week of delay beyond the base, and this will bid price for evaluation. No credit shall be given to OR II. The goods covered under this invitation are (shipped), within an acceptable range of weeks	o early delivery e to be delivered
	Schedule of Requirement. No credit will be deliveries, and bids offering delivery beyond the treated as non-responsive. Within this acceptable adjustment per week, as specified in the Bid Date of the Bid Da	given to earlier his range will be otable range, an
	added for evaluation to the bid price of bids offeri than the earliest delivery period specified in the So Requirements. OR III.The goods covered under this invitation are	chedule of required to be
	delivered in partial shipments, as specified in the Requirements. Bids offering deliveries earlier or specified deliveries will be adjusted in the evaluate to the bid price a factor equal to a percentage, specified DDP price per week of variation frodelivery schedule.	tater than the ation by adding cified 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 to using the methodology specified in the Bid Data Technical Specifications.	uation shall be tivity of goods to the bid price
	h. Specific additional criteria indicated in the Bid in the Technical Specifications. The relevant evaluation method shall be detailed Sheet and/or in the Technical Specifications.	
Alternative 25.4	Merit Point System:	
	The following merit point system for weighing excan be applied if none of the evaluation method above has been retained in the Bid Data Sheet. points allocated to each factor shall be specified Sheet.	ds listed in 25.4 The number of
	[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 the lowest evaluated bid.	be deemed to be
26.Contacting the Procuring Agency	26.1	Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid Opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.	
	26.2	Any effort by a Bidder to influence the Procuri decisions on bid evaluation, bid comparison, or co result in the rejection of the Bidder's bid.	

E. Award of Contract

27. Post-	27.1	In the absence of prequalification, the Procuring agency will
qualification		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	28.1	Subject to ITB Clause 30, the Procuring agency will award the
Criteria		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		The Procuring agency reserves the right at the time of contract award
agency's Right to Vary Quantities		to increase or decrease, by the percentage indicated in the Bid Data
at	29.1	Sheet, the quantity of goods and services originally specified in the
Time of Award		Schedule of Requirements without any change in unit price or other
		terms and conditions.
L	1	I

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	31.1	Prior to the expiration of the period of bid validity, the Procuring
Award		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	32.1	At the same time as the Procuring agency notifies the successful
Contract		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.
	32.2	Within twenty (20) days of receipt of the Contract Form, the
		successful Bidder shall sign and date the contract and return it to the
		Procuring agency.
33 Performance	33.1	Within ten (10) days of the receipt of notification of award from the
Security		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	34.1	The Government of Khyber Pakhtunkhwa requires that Procuring
Fraudulent		agency's (including beneficiaries of donor agencies' loans), as well
Practices		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.
35. Integrity	35.1	The Bidder shall sign and stamp the Integrity Pact provided at Form
Pact		- 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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indicated: a——The ContractI means the agreement entered in between the Procuring agency and the Supplier, as recorded in t Contract Form signed by the parties, including all attachments a appendices thereto and all documents incorporated by referen therein. b.—The Contract Price means the price payable to the Supplie under the Contract for the full and proper performance of it contractual obligations. c.The Goods means all of the equipment, machinery, and/or othe materials, which the Supplier is required to supply to the Procurin agency under the Contract. d.The Services means those services ancillary to the supply of the Goods, such as transportation and insurance, and any oth incidental services, such as installation, commissioning, provisic 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 the 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 a Services under this Contract. j.The Project Site, where applicable, means the place or place named in SCC. k.Day means calendar day.	VALIMATEURIS	In this Contract, the following terms shall be interpreted d as
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named in SCC. k.Day means calendar day.		i.The Supplier means the individual or firm supplying the Goods and
These General Conditions shall apply to the extent that they are n		These General Conditions shall apply to the extent that they are not
2. Application 2.1 superseded by provisions of other parts of the Contract.	pplication	
		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.
		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, 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
3.2 utility from its Components.		-
	ountry of	The origin of Goods and Services is distinct from the nationality of the Supplier
3. Country of Origin 3.3 the Supplier.	-	and Supplier.
The Goods supplied under this Contract shall conform to t standards mentioned in the Technical Specifications, and, when applicable standard is mentioned, to the authoritative standard		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.
4. Standards		

		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
	5.1	so far as may be necessary for Purposes of such performance.
		The Supplier shall not, without the Procuring agency's prior written
		consent, make use of any document or information enumerated in
	5.2	GCC Clause 5.1 except for purposes of performing the Contract.
		Any document, other than the Contract itself, enumerated in
		GCC Clause 5.1 shall remain the property of the Procuring agency
		and shall be returned (all copies) to the Procuring agency on
		completion of the Supplier's performance under the Contract if
5. Use of Contract	5.3	so required by the Procuring agency.
Documents and		The Supplier shall permit the Procuring agency to inspect the
Information; Inspection and		Supplier's accounts and records relating to the performance of
Audit by the		the Supplier and to have them audited by auditors appointed by
Government	5.4	the procuring agency, if so required.
		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
6. Patent Rights	6.1	Procuring Agency's country.
		Within ten (10) days of receipt of the notification of Contract award,
		the successful Bidder shall furnish to the Procuring agency the
	7.1	Performance security in the amount specified in SCC.
		The proceeds of the performance security shall be payable to
		the Procuring agency as compensation for any loss resulting from
	7.2	the Supplier's failure to complete its obligations under the Contract.
		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
	7.3	b. A cashier's check or certified check.
		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
7. Performance		obligations under the Contract, including any warranty obligations,
Security	7.4	unless specified Otherwise in SCC.
<u> </u>		

		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
	8.1	retained for these purposes.
	0.1	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
		_
8. Inspections and	0.2	Supplier or its subcontractor(s), all reasonable facilities and
Tests	8.2	assistance, including access to drawings and production data, shall
		be furnished to The inspectors at no charge to the Procuring
		agency.
		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
	8.3	cost to the Procuring agency.
		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
	8.4	from the country of origin.
		Nothing in GCC Clause 8 shall in any way release the Supplier from
	8.5	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 positions shall be sufficient to withstend without limitation, rough
		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
	9.1	points in transit.
		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
9. Packing	9.2	subsequent instructions ordered by the Procuring agency.
<u> </u>		The Supplier in accordance with the terms specified in the Schedule
		of Requirements shall make delivery of the Goods. The details of
	10.1	shipping and/or other documents to be furnished by the
10. Delivery and	10.1	Supplier are Specified in SCC. Decuments to be submitted by the Supplier are specified in SCC.
Documents	10.2	Documents to be submitted by the Supplier are specified in SCC.

		The Goods supplied under the Contract shall be delivered duty paid
		(DDP) under which risk is transferred to the buyer after having been
11. Insurance	11.1	Delivered; hence insurance coverage is seller's responsibility.
		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
12. Transportation	12.1	related costs shall be included in the Contract Price.
		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
13. Incidental		the supplied Goods, for a period of time agreed by the parties,
Services	13.1	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
		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
	13.2	other parties by the Supplier for similar services.
		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: i.Advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; ii. Following such termination, furnishing at no cost to the
		Procuring agency, the blueprints, drawings, and specifications of
14. Spare Parts	14.1	the spare parts, if requested.
Spare I ares		I I'm my Taranan

		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
	15.1	in the country of final destination.
		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
	15.2	concludes earlier, unless specified otherwise in SCC.
		The Procuring agency shall promptly notify the Supplier in writing
	15.3	of any claims arising under this warranty.
		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
	15.4	agency.
		If the Supplier, havingbeen 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
15. Warranty	15.5	against the Supplier under the Contract.
		The method and conditions of payment to be made to the Supplier
	16.1	under this Contract shall be specified in SCC.
		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
	16.2	fulfillment of other obligations stipulated in t he Contract.
		Payments shall be made promptly by the Procuring agency, but in no
16. Payment		case later than sixty (60) days after submission of an invoice or claim
	16.3	by the Supplier
	16.4	The currency of payment is Pak. Rupees.
		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
17. Prices	17.1	validity extension, as the case may be.
•		

		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
	18.1	d. The Services to be provided by the Supplier.
	10.1	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
18. Change Orders	18.2	order.
		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
19. Contract		Administration phase in line with GCC at the time of award of
Amendments	19.1	contract
		The Supplier shall not assign, in whole or in part, its obligations to
		perform Under this Contract, except with the Procuring agency's
20. Assignment	20.1	prior written consent.
		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
	21.1	Contract.
21. Subcontracts	21.2	Subcontracts must comply with the provisions of GCC Clause 3.
		Delivery of the Goods and performance of Services shall be made
		by the Supplier in accordance with the time schedule prescribed by
	22.1	the Procuring agency in the Schedule of Requirements.
		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
	22.2	extension shall be ratified by the parties by amendment of Contract.
	22.2	· · · · · · · · · · · · · · · · · · ·
		Except as provided under GCC Clause 25, a delay by the Supplier in
22. Delays in the		the performance of its delivery obligations shall render the Supplier
Supplier's		liable to the imposition of liquidated damages pursuant to GCC
Performance	22.3	Clause 23, unless an extension of time is agreed upon

		Pursuant to GCC Clause 22.2 without the application of liquidated
		damages.
		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
23. Liquidated		Procuring agency may consider termination of the Contract pursuant
Damages	23.1	to GCC Clause 24.
		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
	24.1	deprive the Borrower of the benefits of free and open competition.
		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
24. Termination for		for such similar Goods or Services. However, the Supplier shall
Default	24.2	continue performance of the Contract to the extent not terminated.
		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
25 5	25.1	that its delay in performance or other failure to perform its
25. Force Majeure	25.1	obligations under

1		F M.:
		For purposees of this clause, —Force Majeurel 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,
	25.2	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.
		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
26. Termination for		termination will not prejudice or affect any right of action or remedy,
Insolvency	26.1	which has accrued or Will accrue thereafter to the Procuring agency.
		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
	27.1	effective.
	27.1	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
27. Termination	25.2	partially completed Goods and Services and for materials and
For Convenience	27.2	parts previously procured by the Supplier.
		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
	28.1	Contract.
		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,
28. Resolution of		but are not restricted to, conciliation mediated by a third party,
Disputes	28.2	adjudication in an agreed manner and/or arbitration.
		1 3

		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,		
29. Governing		which are exchanged by the parties, shall be written in the same		
Language	29.1	language.		
		The Contract shall be interpreted in accordance with the laws of the		
30. Applicable Law	30.1	Procuring agency's country, unless otherwise specified in SCC.		
		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		
31. Notices	31.1	specified in SCC.		
		A notice shall be effective when delivered or on the notice's		
	31.2	effective date, whichever is later.		
		Supplier shall be entirely responsible for all taxes, duties, license		
32. Taxes and		fees, etc., incurred until delivery of the contracted Goods to		
Duties	32.1	the Procuring agency.		

Standard Bidding Documents

Under National Competitive Bidding



SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES ETC FOR THE YEAR 2021-22.

Health Department

Government of Khyber Pakhtunkhwa

PART TWO (PROCUREMENT SPECIFIC PROVISIONS)

- Invitation for Bids (IFB)
- Bid Data Sheet (BDS)
- Special Conditions of Contract (SCC)
- Schedule of Requirements
- Technical Specifications
- Sample Forms
- Eligibility

<u>NOTE</u>
The forms provided in Section VI should be complete d 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.dghskp.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. SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS, GENERATORS & OTHER HOSPITAL SUPPLIES, ETC FOR F.Y 2021-22.

- 1. Directorate General Health Services, Khyber Pakhtunkhwa Peshawar invites sealed bids under National Competitive Bidding from Manufacturers and/ or Importers and/ or authorized agents of Machinery, Equipment, Instruments, and other Hospital supplies etc. to Select & Rate Contract the same for framework agreement for various Purchasing Entities of Health Department, Government of Khyber Pakhtunkhwa for F.Y. 2021-22.
- 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 Technical and Financial Bid separately clearly marked in bold & legible letters. The firms are expected to provide complete information of the bid along with its postal as well as valid email address and phone number/s on each respective envelope.
- 3. Interested Manufacturers and/ or Importers and/ or authorized agents must obtain Application Form along with complete set of bidding documents from the Procurement Cell at the Directorate General Health Services, Old FATA Secretariat Warsak Road Peshawar during office hours on any working day till Monday, July 05, 2021, against the non-refundable cash payment of Pak Rupees Two thousand per application form. The Bidding Documents may be downloaded from the following official websites:,www.healthkp.gov.pk,www.dghskp.gov.pk and www.kppra.gov.pk.
- 4. The bidders are required to submit their inputs/reservations on Bidding Documents including Specifications, Criteria etc. to Procurement Cell in writing before 11th June 2021, as category wise pre-bid meetings with the interested bidders will be held on 14th June 2021 for category-A equipment's, 15th June 2021 for category-B equipment's and 16th June 2021 respectively for rest of the categories, in this Directorate starting at 10.00 AM sharp.
- 5. Interested Bidders must submit sealed bids to the Procurement Cell at the Directorate General Health Services, Warsak road Peshawar on or before 10:30 AM sharp, **Monday, July 05, 2021**, which will be opened on the same day at 11:00 AM in the presence of those bidders or their representatives, who choose to attend the process. Bid submitted after 10:30 AM shall not be entertained.
- 6. Financial bid must be accompanied with irrevocable Bid Security in the name of the undersigned which shall be from bank account of the prospective bidder. Ordinary cheque and Payment Order (PO) in the form of bid security shall result in disqualification of bidder as per KPPRA Act and Rules.
- 7. Technical bids must be accompanied with a photocopy of the bid security (not showing the amount) and an Affidavit on Judicial Stamp paper to the effect that bid security as per Bid data Sheet is attached in the financial bid, failing which the technical bid will be considered as non-responsive.
- 8. Bids must be computer typed & printed; and the offered bid prices must be written both in words & figures. Bid prices/ quotations with cutting and over-writing shall not be accepted to the extent of that particular quoted item. An authorized person of the bidder/firm shall sign & stamp all pages of the bid having numbers on each page. Firms shall submit bids in hard binding, and bids submitted in box file/ loose file will be considered non-responsive.
- 9. The technical proposal shall contain all the details in accordance with standard specification of the items/goods mentioned in the Schedule of Requirements (SOR) which must be supported by catalogue/Brochures. Bids will be submitted on the format mentioned in BSD. All bidders are also required to submit the relevant detail of technical proposal and required documents in soft copies on Computer USB and official email of procurement Cell in PDF format, duly labeled by a permanent marker with the name of bidder/ firm.
- 10. Bidders are required to offer the most competitive 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 Rules 2014.

Director General Health Services Khyber Pakhtunkhwa, Peshawar Tel No: 091- 9210269/091-7250736

Fax No: 091- 9210230 Email: pcdghs@gmail.com

Section II. Bid Data Sheet

BID DATA SHEET

ITB Re f.	Introduction/Description	Detail
ITB 1.1	Name of Procuring Agency of Government Of Khyber Pakhtunkhwa.	DGHS- KP Peshawar 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 2021-22
ITB 1.1	Name of Project	Selection & Rate Contracting under Khyber Pakhtunkhwa District Govt. Rules of Business 2015 through Framework agreement under KPPRA regime
ITB 1.1	Name of Contract	Selection &Rate Contracting through framework agreement for F.Y 2021-22.
ITB 4.1	Name of Procuring agency.	DGHS-KP 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	d Currency	
ITB 11.2	Price quoted shall be:	Pakistan Rupees (Rs.)
ITB 11.5	The price shall be fixed	The quoted prices will be valid till 30th June 2022.
Preparation	and Submission of Bids	
ITB 13.3 (d)	Qualification requirements.	 Manufacturer/Importer/ Sole agent of manufacture category A, B, F& G specified in SOR. Manufacturer/Importer for category- C specified in SOR. Manufacturer/Importer/Authorized dealer for category D & E specified in SOR.
10		 Three Years free of cost provision of services and spare parts under warranty period. Two Years free of cost service without spare parts. Ten Years parts availability in market and will provide certificate for the same.

ITB 15.1	Amount of bid security.	Bid security shall be @ 2% of bid value for Category A, B & F.
		Whereas Rs. 300000 (Three Hundred Thousand only) for each individual Category of C/D, E& G. The Bid security shall be shall be from bank account of the bidder. Ordinary cheque and Payment Order (PO) in the form of bid security will result in bid rejection summarily.
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, Ex-FATA Secretariat Warsak Road, Peshawar
ITB 18.2 (b)	IFB title and number.	SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2021-22.
ITB 19.1	Deadline for bid submission.	10:30 AM Sharp. Monday, July
		<u>05, 2021</u>
ITB 19.3	Pre-Bid meeting with the bidders	The bidders are required to submit their inputs/reservations on Bidding Documents including Technical Specifications, Criteria etc. to Procurement Cell in writing on or before 11 th June 2021 or during pre-bid meetings. A Category wise pre-bid meetings with the interested bidders will be held on 1).14 th June 2021 for category-A equipment's, 2). 15 th June 2021 for category-B equipment's and 3). 16 th June 2021 respectively for rest of the categories, in this Directorate starting at 10.00 AM sharp.
ITB 22.1	Time, Date, and Place for bid opening.	11:00 AM Sharp. Monday, July
		05, 2021 Directorate General
		Health Services KP , WarsakRoad, Peshawar.
Bid Evaluati	on	·

ITB 23.1	Clarification of Bids	The Procuring agency may ask the Bidder in writing, only for clarification regarding the received documents in the bid; however no change in the prices or substance of the bid shall be sought, offered, permitted or entertained. This communication shall be with the prior approval of chairman T&E committee.
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) ITB 25.4 (b)	One option only Delivery schedule. Relevant parameters in accordance with Option selected.	Not Applicable
Option I Option II Option III	Adjustment expressed as a Percentage, or adjustment expressed in an amount in the currency of bid evaluation, or adjustment expressed in an amount in the currency of bid evaluation.	Not Applicable
ITB 25.4 (c)(ii)	Deviation in payment schedule. Annual interest rate.	Not Applicable
ITB 25.4 (d)	Cost of spare parts.	Not Applicable
ITB 25.4 (e)	Spare parts and after sales service facilities in the Procuring agency's Country.	Not Applicable
ITB 25.4 (f)	Operating and maintenance costs.	Not Applicable
ITB 25.4 (g)	Performance and productivity of	Not Applicable
	Equipment.	
ITB 25.4 (h)	Details on the evaluation method or reference to the Technical Specifications	As in section on Technical Evaluation of bids.
ITB 25.4	Specify the evaluation factors.	Not Applicable
alternative		
ITB 28.1	Award Criteria	Section 2 (c)(i)
Contract Av	vard	
ITB 29.1	Percentage for quantity increase or Decrease.	Number of items can be increased and Decreased as per requirement of the PE within permissible limits under the rules.

Section III. Special Conditions of Contract

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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: Directorate General Health Services, Health

Department, Government of Khyber Pakhtunkhwa, Peshawar; and

The Purchasing Agency/is /are: District Health Officers, Medical Superintendents, and other Heads of the Primary & Secondary care of the Health Department, Government of Khyber Pakhtunkhwa. GCC 1.1 (i) The Supplier is: i) Manufacturer and/or Importer and or sole agent of manufacturer 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.

2. Sample Provision:

GCC 1.1 (j)—The Project Site is: Procurement Cell, Directorate General Health Services, 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 Procurement Cell, DGHS or any other place notified by the procurement Cell, at bidder's own risk and cost at the time and date communicated. The samples will be returnable and no payment shall be made to bidder / Focal Person on this account. Notified technical committee for sample shall evaluate the samples provided.

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. The bidder will provide the details regarding country of origin, Model, Make, manufacturer, along with details of Manufacturing Units and mode of supply, shipment, and any other associated details of the component items and that of the quoted equipment. Bidders are bound to supply the equipment from quoted country of origin only.

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. of the total value of each individual supply order placed to the successful bidder.

However, the Standard bid security @ 2 percent of the bid value for all category A,B& F and Rs.300000 (Three Hundred Thousand only) for each of the Categories C, D,E & G, 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 Procurement Cell as Bid Security and will be released back to successful bidders after receipt of 10% performance security on each individual supply order placed by the respective procuring entity and will be retained by procuring entity till completion of warranty period.

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. Technical Evaluation shall be conducted by the Technical and Evaluation (T&E) Committee or scrutiny Committee to undertake verification of documents submitted by the bidder/s along with the technical bids as well as to conduct the physical inspection of the various samples &/or relevant premises as per rent agreement or ownership 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 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. The Procuring Agency reserves the rights to reject the quoted items/equipment at any stage before award of contract in case of any deviation from the standard specifications.

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 nonnegotiable 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;
- i. Inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report.
- ii. Certificate of origin; and Custom clearing documents.

10. Payment (GCC Clause 16):

(i)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 (ii)Payment shall not be made for partial and incomplete supply of goods.

11. Prices (GCC Clause 17)

- i. The bidder will 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 than 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 may carry out the market analysis before issuing a letter of consent to the successful bidder.

13. Liquidated Damages (GCC Clause 23)

As in relevant clauses of the Rate Contract Agreement signed by the Supplier with the Procuring Agency. Penalties shall be imposed as per contract agreement and blacklisting & debarment guidelines of the department if the firm deviates from Rate Contract Agreement.

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 under KPPRA Regime. 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).if technical and financial score are the same, the contract may be awarded to both firms.

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, KPPRA Rules 2014 and prevailing regulations etc.
- ii. The Contract Act 1872.
- iii. 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.
- iv. The Bonded Labor System (Abolition) Act of 1992.
- v. The Factories Act 1934.
- vi. Company Act 2017.

18. Notices (GCC Clause 31)

GCC 31.1—Procuring Agency address for notice purposes: Procurement Cell, Directorate General HealthServices, Khyber Pakhtunkhwa, Khyber Road, Peshawar.

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

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

19. Duties & Taxes (GCC clause 32)

The Unit price quoted by the bidder shall be: **inclusive** of all applicable duties and taxes. All prices shall include relevant taxes & duties, where applicable. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Purchasing 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. Bidders shall establish all legal documentary proofs where required/ ask by the procurement cell.

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 embassy attested 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. In case of imported products, the authorization shall be attested from the embassy of Pakistan in the country of manufacturing or embassy of the manufacturing country in Pakistan. Bidders shall provide letter of authorization from foreign/local Manufacturers whose shall not be in the process of winding up/liquidations.

23. Technical Staff and Tools

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

24. Minor Deviation

The Procuring Agency may waive off 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. Any item other than quoted and approved shall not be supplied to procuring entity without intimation to procurement cell and Supply shall be subject to clearance from S&RCC on recommendation of technical experts of procurement Cell notified by chairman T&E.

25. Deviation from critical Provision

Deviations from, or objections or reservations to critical provisions shall be deemed to be a material deviation form technical proposals and thus the bid will be declared as Non-responsive. Any model supplied other than quoted and approved will be considered as deviation/ forgery and will be rejected straightaway at the cost and risk of the supplier.

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. Alternate Bid

Different models/ prices offered for a single item by the same bidder shall be considered as alternate bid and Shall be non-responsive.

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. The available testing equipment must be calibrated. The successful bidders shall provide complete technical manual and operation manual to the in charge of central workshop Peshawar all regional workshops.

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 services, documents mentioned in technical bids and any other relevant details regarding testing tools, calibration tools, spare parts etc by relevant technical personnel.

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/ Conditional bid shall stand rejected. All items described in the technical proposal must be priced in financial proposal. No conditional bid in term of Technical/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.

- **36. OEM**: The Manafuracture should have documentary evidence to the effect that they are the original manufacture of the quoted product/s with indication of manufacturing site and its location.
- **37. List of Related tools/parts:** The details regarding testing, calibration tools shall be submitted in bid which will be verified during inspection. The list is attached in this document and marks will be awarded after verification & recommendation by relevant technical personnel during inspection stages.

38. Technical Bid Submission Vis-à-vis Format.

The bidders will quote the technical bids on the format/ Form given in the sample form.

Technical Bid Quotation Form / Vis-à-vis

Name of Equipment / Item:	
Model:	
Make:	
Country of Origin:	
Category of equipment / item:	
S. No in SBDs:	
Comparative of Required Specification	on and Quoted Specification
Required Specification (Procurement Cell DGHS)	Quoted Specification of the bidder

Section IV. Schedule of Requirements

<u>Instructions relating to Category A, B, C, D, E, F, G & H equipment / items:</u>

- As detailed elsewhere in this document, 2 % of bid security of the total bid value of equipment / items for category (A, B, & F) and Rs: 300,000 (Three Hundred Thousand) for each category of C,D,E &G shall be submitted by each bidder on the total quantity of items for which bid is being submitted. 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.
- All the bidders must submit the quotations for category A and B equipment / items on the below format / form.
- Registration with Drug Regularity Authority of Pakistan (DRAP) as manufacturer of Medical Devices for local manufacturer of equipment / items.
- In case of imported items of category A, B and C the quoted items shall be registered for use in their country of origin, for which the Importers should provide valid authorization 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 or where the commercial office located for the quoted items. Non-provision of valid embassy attested authorization for imports will lead to disqualification of firm in Category A, B and C.
- All certifications (i.e Manufacturer authorization, ISOs, CE MDD, USFDA, JIS/MLHW, and DRAP) and data/ documents shall be valid. Committee may carry out the verifications on or before award of contract and in case of any fraudulent practice; legal action will be taken against the bidder concerned. Any certificate expires before bid opening will not be entertained.
- Non-Provision of mandatory documents mention in these SBDs shall lead to disqualification of the firm / quoted items.
- The bidder is bound to provide local training for at least 5 persons including the technical persons of Procurement Cell & Workshops Persons.
- After sale satisfactory performance certificate must be recognized from relevant forums having dispatch number, signature of the officer and date on letter head of procuring entity. The satisfactory performance certificate of non-recognized institution with relevant forums will not be considered.
- The bidding is carried out for Rate Contract through Framework Agreement and hence the quantity is not mentioned. The order may increase / decrease as per requirement / decision of the purchasing 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 Procuring Entity has the right to inspect o (if needed) the premises of bidder to inspect the setups ensuring proper after sales services, verify documents (if needed) mentioned in technical bids and any other relevant details. Premises (office/workshop) of bidder shall be insured through ownership/or Rent agreement.
- The bidder shall provide the shipment trail of the quoted item from the manufacturing site till destination.

- The Bid security shall be shall be from bank account of the bidder. Ordinary cheque and Payment Order (PO) in the form of bid security shall result in bid rejection.
- The Unit price quoted by the bidder shall be **inclusive** of all applicable duties and taxes. All prices shall include relevant taxes & duties, where applicable. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Procuring Agency.
- Different models/ prices offered for a single item by the same bidder shall be considered as alternate bid and shall be non-responsive.
- Any reservations on BSD including criteria, specifications etc (if any) shall be submitted in writing in the Pre-bid meeting by authorized person/representative of the firm during the period of Pre Bid.

• 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.

List of Equipment/Items

S.No	Name of equipment	Category
1	Air Purification System	A
2	Anesthesia Machine with Cardiac Monitor having two vaporizers	A
3	Argon Laser	A
4	Auto Refractor with Karatometer	A
5	B. Scan	A
6	Bronchoscope Flexible full set with all accessories	A
7	Bronchoscope Rigid	A
8	Cardiac Monitor for Category C & low level Hospitals	A
9	Cardiac Monitor for Higher level Hospital	A
10	Cardiac Monitor with Defibrillator	A
11	High End Color Doppler Machine	A
12	Color Doppler Machine	A
13	CR System (computerized radiography system) with compatible UPS	A
14	Cystoscope flexible set with light source complete	A
15	Dialysis Machine	A
16	Digital Fluoroscopy Unit	A
17	Digital OPG X Ray	A
18	DR system for existing X-ray machines with compatible UPS	A
19	High End Echo Machine	A
20	Echo Machine	A
21	Elisa Machine (Reader, incubator shaker and Washer) Programmable with UPS	A
22	Endoscope Gastro duodenal	A
23	Esophagoscopes instruments set	A
24	ETT Machine	A
25	Fully Automated Chemistry Analyzer with UPS	A
26	Grey Scale Portable / Mobile Ultrasound Machine	A
27	Hematology Analyzer 3 Part differential with UPS	A
28	Hematology Analyzer 5 Part differential with UPS	A
29	ICU Central Station for cardiac monitors	A
30	ICU Ventilator (Neonatal& Pediatric & Adult)	A
31	Laparoscope machine for Gynea /OBS and General	A
32	Mobile C-Arm/ Image Intensifier (Fluoroscopy)	A
33	Mobile X-Ray plant 300 mA/125KV AC & Battery Operated	A
34	Nasopharyngo scope with suction	A
35	Operating Microscope for ophthalmology	A
36	Semi-Automated Chemistry Analyzer with UPS	A
37	Sigmoido scope with universal lighting	A
38	Sinus Endoscopy set with proof puncture needles	A
39	Slit Lamp	A
40	Transport / Portable Ventilator for Ambulance	A

41	Ultrasound machine (General purpose) within built trolley mounted	A
42	X-Ray Plant 300mA in built or external AVR and UPS	A
43	X-Ray Plant 500mA With inbuilt or external AVR and UPS	A
44	X Ray Plant 500mA (3-Phase)	A
45	Yag Laser	A
46	24 Hour BP Monitoring machine	В
47	Air Drill with Cylinder/Orthopedic pneumatic drill with cylinders.	В
48	Arterial Blood Gas Analyzer with UPS	В
49	Autoclave Automatic 100 Liters	В
50	Autoclave Automatic 150 Liters	В
51	Autoclave Automatic 200 Liters	В
52	Autoclave Automatic 100 Liters Sliding door	В
53	Autoclave Automatic 150 Liters Sliding door	В
54	Autoclave Automatic 200 Liters Sliding door	В
55	Automated Electrolyte Machine with UPS	В
56	Automated ESR Analyzer	В
57	Automatic Blood Bag Shaker	В
58	Automatic Film Processor	В
59	Baby Incubator	В
60	Baby Suction Machine	В
61	Binocular Microscope	В
62	BIPAP	В
63	Blood Bag Tube Sealer	В
64	Blood Bank Refrigerator	В
65	Centrifuge (Bench Top)	В
66	Cervical and Lumbar Traction Table	В
67	CPAP	В
68	CPR Machine	В
69	CTG Machine	В
70	Defibrillator	В
71	Deionizer	В
72	Delivery table/ D&C Table	В
73	Dental Unit with Chair and regulator (10 KVA)	В
74	Dental X-ray	В
75	Distillation water Assembly	В
76	Dry Heat Sterilizer/ Hot air oven	В
77	ECG Machine 12 channels	В
78	ECG Machine 3 channels	В
79	ECT Machine	В
80	EEG 32 Channels	В
81	Electric Amalgamator	В
82	Electric cautery (Dental)	В
83	Electric Ripple mattress	В
84	Electric surgical unit Diathermy	В

85	Electro Mechanical Operation Table	В
86	Emergency light with single reflector AC/DC Or Examination light AC/DC	В
87	EMG 4 Channels	В
88	ENT workstation (Examination +treatment)	В
89	Fracture Operation Table with Ortho Traction Attachment	В
90	Glucometer	В
91	Gynae Vacuum Suction Apparatus/vacuum extractor with trolley	В
92	Head Light with Cool Illumination	В
93	HFNC	В
94	Humidifier	В
95	Hydralic Operation Table	В
96	Indirect Ophthalmoscope	В
97	Infant Warmers (Radiant Warmer)	В
98	Infra-Red Radiator Large	В
99	Infra-Red Radiator Small	В
100	Infusion pump	В
101	Laboratory Incubator	В
102	Microtome Machines	В
103	Microvent	В
104	Mini Autoclave For dental	В
105	Nebulizer	В
106	Ophthalmoscope	В
107	Ophthalmoscope + Retinoscope Rechargeable	В
108	Orthopedic Drill Battery operated	В
109	Oxygen Concentrator	В
110	Paraffin Wax Bath For Foot	В
111	Paraffin Wax Bath For Hand	В
112	PH Meter	В
113	Phototherapy Unit	В
114	Point of care Testing(POCT) analyzer	В
115	POP cutter / Plaster Cutting Saw	В
116	Portable lamps AC/DC or Emergency light AC/DC	В
117	Pulse Oximeter	В
118	Pure Tone Audiometer	В
119	Resuscitation Trolley / ICU Trolley / CPR Trolley	В
1.00	Shadow less lamp (Ceiling type) or Ceiling OT light for minor OT or Ceiling OT light	
120	for post morterm	В
121	Shoe Covering machine	В
122	Sonic Aid Machine/Fetus Heart Detector	В
123	Spirometer/ Pulmonary function unit	В
124	SS Filtration Assembly	В
125	Suction machine Heavy Duty/ Electric suction Machine	В
126	Syringe Destroyer	В
127	Syringe Pump	В

128	Therapeutic Ultrasound	В
129	Three Channel Holter monitor	В
130	Transcutaneous Electrical Nerve Stimulators (Tens)/Electric Stimulator	В
131	Ultra Violet Lamp Large	В
132	Ultra Violet Lamp Small	В
133	Ultrasounic Nebulizer	В
134	Urine meter	В
135	Vein Detector	В
136	Vessel Sealing System	В
137	Vortex mixer	В
138	Water Bath	В
139	Air 240 Cft Cylinder	С
140	Air 48 Cft Cylinder	С
141	Baby Cots	С
142	Bed side Locker	С
143	Bed side steel stairs	С
144	Bed with side Table and over bed trolley (local)	С
145	Beds with side table over bed trolley(imported)	С
146	CO2 240 Cft Cylinder	С
147	CO2 48 Cft Cylinder	С
148	Couch for Ultrasound / Examination couch	С
149	Cylinder Trolley 240 CFT	С
150	Cylinder Trolley 48 CFT	С
151	Dissection Table (small)/ Mortuary table	С
152	Dissection Table(large)/Mortuary table	С
153	Dressing Trolley	С
154	Drip stand	С
155	Dry Clean Trolley	С
156	Electric Cardiac Bed/ICU Bed	С
157	Fire extinguisher 4 Kg	С
158	Fire extinguisher 6 Kg	С
159	Fire extinguisher 9 Kg	С
160	Folding Screen	С
161	Gynae examination couch	С
162	Instrument Trolley	С
163	Manual Cardiac Bed/ICU Bed	С
164	Nitrous Oxide 240 Cft cylinder	С
165	Nitrous Oxide 48 Cft cylinder	С
166	Orthopedic Traction Bed	С
167	Oxygen 240 Cft cylinder	С
168	Oxygen 48 Cft cylinder	С
169	Patient electric bed	С
170	Patient Trolley	С
171	Revolving steel stool	С

172	Stretcher (Imported)	C
173	Stretcher (Local)	C
174	Surgeon revolving steel stool	С
175	Wheel Chair	С
176	Adult weighing scale	D
177	Ambo bag Adult	D
178	Ambo bag Paeds	D
179	Analytical/Electronic Balance	D
180	Attendant bench	D
181	Baby Anesthesia Set	D
182	Baby Resuscitation Apparatus	D
183	Baby weighing scale	D
184	Bed Sheet	D
185	Binocular Magnifier	D
186	Blanket	D
187	Blood Screening Counter	D
188	Box for disposal of sharps	D
189	BP apparatus with stand	D
190	BP mercury desktop with peads and adult cuff	D
191	BP Set Wall Mounted	D
192	Breast pumps	D
193	Centrifuge Tubes (Glass)	D
194	Centrifuge Tubes (Plastic)	D
195	Clamps	D
196	Containers for sputum	D
197	Containers for Urine	D
198	Cover Slip	D
199	Cupboard Steel Large	D
200	DLC Counter	D
201	Ear Syringe	D
202	ENT Diagnostic Set (adult and Paeds)	D
203	ESR Pipettes	D
204	ESR stand for five Tube	D
205	Examination torch	D
206	FSP Pipette	D
207	Glass pipettes (different sizes)	D
208	Glass Slide	D
209	Glass Wares	D
210	Haemo cytometer	D
211	Hangers Various Size	D
212	Immersion Rod	D
213	Jester (1 to 10 ul) Adjustable	D
214	Jester (10 to 100ul) Adjustable	D
215	Jester (100 to 1000ul) Adjustable	D

216	Jester Fix 1000ul	D
217	Jester Fix 100ul	D
218	Jester Fix 10ul	D
219	Jester Fix 20ul	D
220	Jester Fix 500ul	D
221	Jester Fix 50ul	D
222	Jester Fix 5ul	D
223	Lancets	D
224	Laryngeal Face Mask (small, Medium & large size)	D
225	Lead Apron	D
226	Lead Glass Shield	D
227	Lead Gloves	D
228	Lens Set(Plus 78 D)	D
229	Manual ESR System	D
230	Manual Film Processor	D
231	Manual Suction Apparatus for ICU	D
232	Mattress Foam with Raxine Cover	D
233	Mattress Foam with Raxine Cover Medical Grade	D
234	Measuring Stand Infant	D
235	Medicine (Iron Rack) 8x6x2	D
236	Micropipette Digital Different size	D
237	OPD chairs S.S	D
238	ORS feeding containers and spoons	D
239	ORS measuring jug	D
240	OT Caps	D
241	OT Gown	D
242	OT Sheet	D
243	OT Shoes	D
244	Otoscope Rechargeable	D
245	Oxygen Cylinder Key	D
246	Oxygen Flow Meter	D
247	Oxygen Flow Meter with humadifier	D
248	Oxygen gauge	D
249	Peak Flow Meter	D
250	Pediatric Circuit	D
251	Pillow with cover	D
252	Pipette stands	D
253	Plastic Apron	D
254	Proctoscope for adult & child	D
255	Randall Baker Face Mask all sizes set	D
256	Reagent Bottles	D
257	Refraction Box	D
258	Safe Light for Dark Room	D
259	Sahli Hemoglobin meter	D

260	Sam Circuit all sizes	D
261	Steel Almirah for Medicines	D
262	Steel File cabinet	D
263	Stethoscope	D
264	Stethoscope Nursery	D
265	Stylets Adult / Paeds	D
266	Table Cover large	D
267	Table Cover small	D
268	Test Tube holder	D
269	Test Tube Racks Stainless Steel	D
270	Test Tubes	D
271	Test Tubes Racks wooden	D
272	Thermal Gun	D
273	Tonometer	D
274	Vaccine carrier and ice pack	D
275	Vision testing drum	D
276	Waste bin sets (Comprising 3 bins of White, Yello and Red Color each measuring)	D
277	Wet Film Stand	D
278	Wheel Chair Folding type	D
279	Wire Loops	D
280	Wooden Boxes	D
281	X-Ray Cassette 10 x 12 with Green screen.	D
282	X-Ray Cassette 12 x 15 with Green screen	D
283	X-Ray Cassette 14 x 17 with Green screen.	D
284	X-Ray Cassette 8 x 10 with Green screen.	D
285	X-Ray Illuminator Double Table Top/ X-Ray Viewer / X-Ray Viewing Box	D
286	AC 1 tone Split unit inverter type	Е
287	AC 1.5 tone Split unit inverter type	Е
288	AC 2 tones Split unit inverter type	Е
289	Door Air Curtain	Е
290	Electric Geysers 10 Gallons	Е
291	Electric Geysers 15 Gallons	Е
292	Electric Water Cooler 40 Litters with Filter	Е
293	Electric Water Cooler 60 Litters with Filter	Е
294	Electric Water Cooler 80 Litters with Filter	Е
295	Gas Geyser 30 Gallon	Е
296	Gas Geyser 50 Gallon	Е
297	ILR/Deep Freezer	Е
298	Refrigerator 12 CFT	Е
299	Refrigerator 14CFT	Е
300	Refrigerator 18 CFT	Е
301	Photocopier	Е
302	Printer	Е
303	Scanner	Е

304	Computer	E
305	Laptop	Е
306	Multimedia Projector	Е
307	Generator 40 KVA	F
308	Generator 50 KVA	F
309	Generator 100KVA	F
310	Generator 200KVA	F
311	R.O water purification plant for dialysis Machine	G
312	60KVA three phase Automatic voltage regulator	G
313	30 KVA single phase Automatic voltage regulator	G
314	5 KVA UPS	G
315	5KVA Solar Off Grid Hybrid Inverter	G
316	All Surgical instruments and instrument sets	С

S. No	Nomenclature	Specifications	Category
1.	Air Purification System	 Automatic air purification system Air purification system for the removal of bacteria, viruses, and gases from indoor areas of hospitals, OT/ICU/dental/labs, and Wards. Air Cleaning capacity 2000 Cubic feet per hour or more Minimum particle removal size 0.001um or less. Should have filter less technology. Cleaning efficiency 99.99 %. Unit should be wall mounted. Input Power 220VAC, 50Hz 	A
2.	Anesthesia Machine with Cardiac Monitor having two vaporizers	Anesthesia unit with 2 Vaporizers and inbuilt ventilator Unit shall be comprised of the following components. Non interchangeable pipeline inlets. Pipeline and cylinder gauges for O2 and N2O. Pin index cylinder yolks for at least one or more cylinders of O2 and N2O each. 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 electronic/ manual. O2, N2O and Air (4-bar) hoses. Isoflurane and Sevoflurane vaporizer (models of the vaporizers must be mentioned). Should support future upgrade for AG, Paramagnetic oxygen monitoring and EtCO2 (Should be quoted optional) One or more drawer's unit power outlets with 4 or more sockets. Auxiliary O2 outlet. Writing shelf/platform. Soda-lime absorber with CO2 bypass function ,1-2 Kg complete with valve for bag/ventilator, manometer, 3 liter breathing bag, breathing tube, mouth, and Y piece. Ventilator: Ventilator must be inbuilt with the anesthesia unit. Ventilator to be complete with manometer display. The ventilator shall have the following features as a minimum requirement. Ventilation mode: VCV, PCV, SIMV-VC, SIMV-PC, SIMV-VG, CPAP, PSV Electronic Microprocessor controlled.	A

- On/Off switch.
- Breathing mode selection. (Standby/Volume/Spontaneous and pressure).
- Built in monitor 12" or better color screen to display all the mentioned parameters.
- Inverse I: E Ratio Capability.
- Able to display P-V, P-F, F-V lung function loop and store up to 2-3 lung function loops.
- 3 waveform and lung function loop can be displayed simultaneously in one screen.
- Gas specific input connectors (Air/Oxygen ISO)
- Tidal Volume from 20 ml to 1400ml or better on either side
- Rate or frequency 4 to 100bpm or better on either side
- I:E ratio from 4:1 to 1:8 or better on either side
- PEEP off from 3 to 30 cmH2o or better on either side.
- Inspiratory pressure limits from 10 to 60 cmH2O or better.
- Adult bellows graduated from approximately 20ml to 1400ml.
- Battery backup (90 minutes or more).

Audio Visual Alarm for the following:

- Alarm mute.
- Low/High FiO2 Alarms (18% to100%).
- Low Supply Pressure
- High Airway Pressure.
- High Continuous Air Pressure
- Low Pressure
- Incorrect rate or Ratio
- Main failure.
- Low Battery.
- The ventilator shall be supplied complete with drive hose, cylinder connector and power cable.

The following RE-USABLE AND AUTOCLAVABLE accessories shall be supplied with the unit.

 Reusable Adult Breathing system 	2. No's
 Reusable Pediatric Breathing system 	1. No's
• Re-breathing bag 0.51	3. No's
 Re- breathing bag 1L 	3. No's
 Re-breathing bag 2L 	3. No's
 Forceps Magill adult 	2. Nos
 Forceps Magill Child 	2 No's

Multi Parameter Patient Monitor

(3ch 5 lead ECG, SpO2, NIBP, Dual IBP, TEMP, Resp., ETCO2)

- Display for easy Viewing 12" or better color TFT/LCD/ LED for easy set-up (with all parameters display).
- ECG, SpO2, NIBP, 2-IBP, TEMP, and Respiration
- EtCO2 (Side stream/main stream type with basic accessories)
- 15 or more Arrhythmias analysis should be detected and alarmed.

	1		
		Multi-lead ECG algorithm	
		S-T and QT Analysis	
		Pacemaker detection.	
		Support heart rate analysis and dynamic NIBP analysis	
		• Save up to 500 Event management and 48 hours waveforms.	
		IBP cable and sensor kit	
		• Up to 72 hours or better of graphic and tabular trend of all	
		parameters,	
		PERFORMANCE:	
		Heart rate: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-	
		350bpm or better	
		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 -50 degree C or better	
		NIBP:	
		• Range: 15-260 mmHg (± 10 mmHg)	
		GENERAL:	
		Alarm: All parameters on/off selective independently	
		• Power input 220Vac,50Hz	
		With Battery Backup time: Minimum 05 hours or better	
		• ACCESSORIES:	
		• ECG 5 Lead cable. 1	
		 Disposable Electrodes Adult, Neonate & Paeds. 20 each 	
		• SPO2 Finger sensor with fixed or detachable extension (each for adult, Peads and neonate)	
		NIBP Reusable Neonate, Paeds & Adult Cuff 2	
		• NIBP Hose	
		• AC power code	
		• Ground cable 1	
		Operation Manual	
		• ETCO2 (Side stream) with basic acc. 2	
		• IBP Cable 2	
		• Temperature sensor & cable 2	
		Note: Patient monitor and Anesthesia Machine must be compatible	
		with each other. Separate price must be quoted for Anesthesia	
		machine and Patient Monitor	
3.	Argon Laser	• Wave Length: 532nm	A
		• Power: 1.2W or better	
		• Pulse Duration: 0.1sec to 1sec or better	
		• Aiming Beam: 635nm – 650nm	
		Cooling: Thermoelectric/Air cooling	
		• With Foot Switch	
		• Spot Size: 50um – 500um	

		Single Spot mode: Single, Repeat	
		Standard slit lamp	
		Standard filter	
		Laser application lenses-One macular grid, one standard PRP and	
		one wide field lens	
		• Laser Probe: Straight:	
		20G Qty 1	
		23G Qty 1	
		25G Qty 1	
		Curved 20G Qty 1	
		Flexible Curved:	
		23G Qty 1	
		25G Qty 1	
		Steerable:	
		23G Qty 1	
		25G Qty 1	
		(Price should be quoted separate for laser probe)	
		Accessories:	
		1. Power Foot Switch	
		2. Dual Unit	
		3. Expansion Box4. CB top plate attachment unit	
		5. Safety goggles	
		6. Goldman four mirror lens	
		7. Area centralis lens	
4.	Auto Refractor	Technical Specification:	A
	with	Refraction measurement,	
	Karatometer	• Sphere -20 T0 22D or better (VD 10mm) (0.01/0.12/0.25D step).	
		• Cylinder 0 to $\pm 10D$ or better (0.01 / 0.12 / 0.25D step).	
		• Axis Angle 0 to 180° or better (1° step).	
		Measurement of Corneal Radius:	
		• Curvature radius 5.0-10.0 mm 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 50-85 mm (1mm step)	
		In built Thermal Printer with automatic cutter	
		• LCD display: color 5.7 Inch or better.	
		• Power saves: OFF, 3, 5, 10 min	
		• (Selectable) Standard Accessories: Test eye; 1No.	
		Printer paper: 3 Rolls: Chin rest Paper: 1 pack (sheets as per	
		standard). Chin rest pin: 2 No.	
		• Dust Cover: 1 No.	
Ī		• Contact lens holder: 1 No.	
Ī		Operation manual.	
		Local Motorized stand	
i			

5.	B. Scan	Ophthalmic ultra sound for A -scan biometry, B -scan with	A
		<u>pachymetry</u>	
		B-mode:	
		• Gain adjustable 20 -110db or more.	
		• TGC 0-30db or better.	
		• Dynamic range 25 – 80db or more	
		Probe: 10 MHz or better.	
		• Scanning angle: 30 to 60 degree or better.	
		A scan:	
		Probe: 8Mhz or more.	
		• Depth 1 – 50mm or more.	
		 Operating modes cataract, aphakic, phokic and manual. 	
		Calculation: SRK, SRK II, HOLLADAY, SRK/T.,HOOFER-Q	
		,POST REFRACTIVE ,HAIGIS.	
		PACHYMATRY:	
		PROB: 20 Mhz or more	
		Measurement range: 110 -1500 micro meters or better on either	
		side.	
		Operating mode: auto/manual.	
		 Maps: automatic, continuous, scanning and more if any. 	
		With High density scanning sectors	
		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). 	
		• 8" or better color touch screen monitor.	
		Time gain suspension. '	
		Image line real time replay function.	
		• With A, B, B+A features.	
6.	Bronchoscope	Bronchoscope:	A
	Flexible full set	• The working length of the fiber scope should be 60 cm.	
	with all	• The outer diameter should be 5.7 mm or less.	
	accessories	Range of bending at the tip should be minimum 180 degree up and	
		130 degree down approx.	
		Working Channel diameter: 2.0mm or better	
		LIGHT SOURCE:	
		Compatible light source (Xenon / LED) from the same	
		manufacturer,	
		Automatic light adjustments to maintain optimum	
		brightness/natural color tone.	
		VIDEO SYSTEM	
		HD Camera Head compatible with scope, image processor having	
		capability of image storage and transfer in USB etc Medical Grade	
		monitor having display size 21 inch or more should be mounted on	
		trolley.	

		Voltage source : 220 Vac	
7.	Bronchoscope Rigid	Size: • 3mm WL 200mm or better	A
	C	• 4mm WL 215mm or better	
		• 5mm WL 245mm or better	
		• 5.5mm WL 265mm or better	
		• 6mm WL 300mm or better	
		• 6.5mm WL 350mm or better	
		(± 10% of size)	
		Forceps: - According to the bronchial / tracheal tubes	
		Foreign body forceps, Alligator jaws 1	
		 Grasping forceps, soft foreign body 	
		Biopsy Forceps 1	
		• Fenestrated Forceps 1	
		Peanut Forceps 1	
		Magnetic Extractor 1	
		• Optical biopsy forceps 1	
		• Optical grasping forceps 1	
		• Aspiration catheter 10 Accessories	
		Adapter with sliding glass window plug, sealing cap, notched	
		lens and keyhole opining, movable.	
		Plug for ventilation attachment of bronchoscope.	
		 Adaptor for Bronchoscope to any type of pediatric respiration equipment. 	
		Light Source	
		Compatible Light Source (From same manufacturer).	
		Automatic / Manual Light Adjustment.	
		 Along with fiber optic cable. Video System 	
		HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley.	
		Voltage source : 220 Vac	
8.	Cardiac	Multi Parameter Patient Monitor	A
	Monitor for	(5ch ECG, SpO2, NIBP, TEMP, Resp.)	
	Category C & low-level	 Display for easy Viewing 12" or better color TFT/LCD/ LED for easy set-up (with all parameters display). 	
	Hospitals	Advance for high-end-user	
		• ECG, SpO2, NIBP, 2-TEMP, and Respiration	
		16 or more Arrhythmias analysis should be detected and alarmed. Making the Arrhythmias analysis should be detected and alarmed.	
		Multi-lead ECG algorithm S. T. and OT. Analysis	
		S-T and QT AnalysisPacemaker detection.	
		 Pacemaker detection. Support heart rate analysis and dynamic NIBP analysis 	
		- Support heart rate analysis and dynamic 141D1 analysis	

		• Up to 72 hours of graphic and tabular trend of all parameters	
		PERFORMANCE:	
		Heart rate: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-	
		350bpm or better	
		Respiration	
		• Respiration rate: 2~150bpm or better on either side. SPO2:	
			
		 Range: 30 ~ 100% or better on either side Neopote and adult probe 	
		 Neonate and adult probe. Temperature: 	
		• Range; 0 -50C(32 - 122F) NIBP:	
			
		• Range; 15-260 mmHg (± 10mmH)	
		GENERAL:	
		• <u>Display:</u> 12" or better Color TFT/ LCD/ LED or better	
		• <u>Alarm</u>	
		Alarm: All parameters on/off selective independently	
		Power input 220Vac,50Hz With Pottom Pooling times Minimum 02 hours on better	
		• With Battery Backup time: Minimum 03 hours or better ACCESSORIES:	
		• ECG 5 Lead cable.	
		 Disposable Electrodes Adult, Neonate & Paeds. 20 each 	
		• SPO2 Finger sensor with fixed or detachable extension (each for	
		adult, Peads and neonate) cable of minimum 3-meter length.1	
		 NIBP Reusable Neonate, Paeds & Adult Cuff 	
		• NIBP Hose 1	
		• AC power code 1	
		• Ground cable 1	
		Operation Manual Temperature sensor & cable	
9.	Cardiac	• Temperature sensor & cable 1 Multi Parameter Patient Monitor	A
9.	Monitor for	(5ch ECG, SpO2, NIBP, Dual IBP, TEMP, Resp.,ETCO2)	A
	Higher level	• Display for easy Viewing 15" or better color TFT/LCD/ LED for	
	•	easy set-up(with all parameters display)	
	Hospital	• ECG, SpO2, NIBP, 2-IBP, 2-TEMP, and Respiration	
		• EtCO2 (Side stream type / main stream with basic accessories)	
		18 or more Arrhythmias analysis should be detected and alarmed	
		Multi-lead ECG algorithm	
		S-T and QT Analysis	
		Pacemaker detection.	
		Support heart rate analysis and dynamic NIBP analysis	
		• IBP cable and sensor kit	
		• Up to 72 hours of graphic and tabular trend of all parameters,	
		PERFORMANCE:	
		Heart rate: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-	
		350bpm or better	

		<u>Respiration</u>
		• 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)
		NIBP:
		
		• Range; 15-260 mmHg (± 10mmHg)
		GENERAL:
		Alarm
		Alarm: All parameters on/off selective independently Payor input 220Vac 50Uz
		 Power input 220Vac,50Hz With Battery Backup time: Minimum 05 hours or better
		ACCESSORIES:
		• ECG 5 Lead cable.
		Disposable Electrodes Adult, Neonate &Paeds .20each Disposable Electrodes Adult, Neonate &Paeds .20each Disposable Electrodes Adult, Neonate &Paeds .20each
		SPO2 Finger sensor with fixed or detachable extension (each for adult Pands and magnets)
		adult, Peads and neonate)
		• Cable of minimum 3-meter length. 1
		NIBP Reusable Neonate, Paeds& Adult Cuff 1 NIBP H 1
		• NIBP Hose 1
		• AC power code 1
		• Ground cable 1
		Operation Manual Trace (Girls and Control of the Control
		• ETCO2 (Side stream) with basic acc.
		• IBP Cable 1
	C I M I	• Temperature sensor & cable 1
10.	Cardiac Monitor	Multi Parameter Patient Monitor A 1 5 1 1 FGG G G A NAPR TEN ID R
	with	• (3ch 5 lead ECG, SpO2, NIBP, TEMP, Resp.)
	Defibrillator	Semi-automatic 200 joules or better biphasic defibrillator with
		monitor and AED mode.
		Synchronized output with ECG.
		Control of energy charging/ delivering on main panel and paddle. The state of
		• The energy range should be adjustable for Peads and adults up to 200Joules.
		 Charging Time for full energy will be less than 08 sec.
		 Screen Size of approx. 10 inch or better colored.
		Display of Heart Rate: 30 to 300 bpm
		ECG through Pads / paddles and 3 Lead ECG patient cable with
		arrhythmia detection
		Built in recorder for printing of full summery on standard paper
		including waveforms, Frozen Waveforms, Event Summary,
		Tabular Trends, User test, and Configuration.
		Alarms for High and low Heart rate, low battery warning.
		AC 220V / 50 Hz operated.
		 Built-in Rechargeable battery with charger having capacity of 50
		Shocks.
	<u> </u>	1

		At least three hours backup on monitor.	
		Auto tester/self-check.	
		 External pediatric and adults Paddles, ECG cable with reusable 	
		electrodes for adult &Peads.	
		AED facility.	
		AED pads	
		 Pacing facility 	
		ACCESSORIES:	
		• ECG 5 Lead cable. 1	
		 Disposable Electrodes Adult, Neonate &Paeds. 20 each 	
		 SPO2 Finger sensor with fixed or detachable extension (each for 	
		adult, Peads and neonate) cable of minimum 3-meter length.1	
		 NIBP Reusable Neonate, Paeds & Adult Cuff 	
		• NIBP Hose 1	
		AC power code 1	
		• Ground cable 1	
		Operation Manual 1	
		• Temperature sensor & cable 1	
11.	High End Color	Fully Digital Beam Former Having 4,00,0000 or More Digital Processing	A
	Doppler	Channels with Integrated Data Management System Having 1TB Hard	
	Machine	Disk Drive for Still and Cine Clips Storage and 128GB or more SSD for	
		operating system and application software.	
		operating system and approximation soletimes	
		 Modes 	
		2D/M-Mode, Doppler, Pw, Hprf Doppler, Color Flow Imaging	
		• System Capability 1.5 – 22 MHz or More	
		Tissue Harmonic Imaging Wissian Double 40 and a plantage	
		• Viewing Depth: 40cms or better.	
		• Frame Rate: 1200 FPS or better.	
		Built-In Cine Loop: 2000 Frames/256 MB or better. Built-In Cine Loop: 2000 Frames/256 MB or better. Built-In Cine Loop: 2000 Frames/256 MB or better.	
		 Real time freeze & image magnification ability better than 10 x pre & post processing 	
		 Sweep Speed: Slow, Medium, Fast 	
		• 12" or better touch command screen for easy operation of the	
		system.	
		 System. System dynamic range: 50 to 220db or better 	
		Doppler Mode Specifications:	
		Pulse Repetition Frequency Range;	
		PWD: 1.0 To 22 KHz	
		Doppler Beam Steering	
		On Line 4-Ports for Trans-thoracic Probes	
		Doppler Beam Steering and Bi-Directional Stereo Audio	
		Color Doppler	
		PW doppler must be continuously steerable in color blood flow	
		imaging mode in real time.	
		Colorized Spectrum Display	
		Tissue Harmonic Imaging with Two Frequencies	
		• Elastography	

	T		
		2D Image with Color Flow	
		Power Doppler	
		Standard Features	
		Needle enhancement for biopsy needle visualization	
		Tissue doppler imaging mode	
		• Auto image optimization / quick scan imaging for automatic stc/gain and doppler spectrum adjustment with optimal image quality by using one touch operation.	
		B-flow/dynamic flow imaging / e-flow	
		Trapezoid imaging/virtual convex imaging with linear probe	
		Compound/x view+/aplipure imaging for both frequency compounding and spatial compounding in b/w and color mode	
		N-sight / adaptive suppression / precision imaging / xflow/ cross beam to enhance b-mode imaging, detailed in layers and boundaries and sharpened outlines of the lesions and reduce cluttering.	
		• 3D imaging for the acquisition of volume data and display of 3D images in b/w as well as color without using a 4D transducer.	
		B-flow with color XDclear-2/micro v/superb micro vascular imaging with spectral doppler to clearly show blood flow in tiny vessels, liver capsula, gall bladder wall etc.	
		• Live strain rate Elastography with quantification for body organs specially breast to visualize lesions.	
		• Live Shearwave Elastography with quantification and adjustable area based minimum 2 x 3 cm display for body organs especially liver with convex & linear probes to visualize tissue stiffness by generating images through shear wave propagation, speed, and	
		elasticity modes. Measurement Package:	
		 To provide comprehensive software package for measurement of distance circumference, area, time, depth etc. System Complete with Following Facilities and Accessories: 	
		23-Inches or better color monitor	
		Standard Probes:	
		• 2.0 – 5.0 MHz or More Multi-Frequency Convex Probe	
		• 4.0 – 10 MHz or More Multi-Frequency Linear Probe	
		• 4.0 – 10 MHz or More Multi-Frequency TVS Probe	
		• 5 – 15 MHz High Frequency Linear	
		STD Recording Devices:	
		 Built-In CD/DVD Recorder for Digital Image Storage Built-In / Separate Compatible Imported Online Ups (Minimum Backup Time > 10Minutes) 	
		 B/W Thermal Printer. (Model/ Make must be mentioned) 	
12.	Color Doppler	Fully Digital Beam Former Having 150,000 or More Digital Processing	A
	Machine	Channels with Integrated Data Management System Having 500GB Hard	
		Disk Drive for Still and Cine Clips Storage.	
		 Modes 2D/M-Mode, Doppler, Pw, Hprf Doppler, Color Flow Imaging 	
		• System Capability 1.5 – 16 MHz or more	

		TD: 11 · 1 ·	<u> </u>
		Tissue Harmonic Imaging	
		• Viewing Depth: 30cms or better.	
		• Frame Rate: 500 FPS 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 better Touch Command Screen for easy Operation of the	
		System.	
		System Dynamic Range: 50 to 180db or better	
		Doppler Mode Specifications:	
		On Line 3-Ports for Trans-thoracic Probes	
		Doppler Beam Steering and Bi-Directional Stereo Audio	
		Color Doppler	
		PW Doppler Must Be Continuously Steerable In Color Blood Flow	
		Imaging Mode in Real Time	
		Colorized Spectrum Display	
		 Tissue Harmonic Imaging with Two Frequencies 	
		Built in battery for backup. 2D Image with Color Flow.	
		2D Image with Color Flow	
		Power Doppler	
		Auto Image Optimization/Quick Scan for Single Button 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.	
		System Complete with Following Facilities and Accessories:	
		• 19-Inches or better Color Monitor	
		Standard Probes:	
		• 2.0 – 5.0 MHz or More Multi-Frequency Convex Probe	
		• 4.0 – 10 MHz or More Multi-Frequency Linear Probe	
		• 4.0 – 10 MHz or More Multi-Frequency TVS Probe	
		STD Recording Devices:	
		Built-In CD/DVD Recorder for Digital Image Storage Built-In / Separate Compatible Image and Online Use (Minimum)	
		Built-In / Separate Compatible Imported Online Ups (Minimum Built-In / Separate Compatible Imported Online Ups (Minimum) Built-In / Separate Compatible Imported Online Ups (Minimu	
		Backup Time > 10Minutes)	
	CD C	B/W Thermal Printer. (Model/ Make must be mentioned) Printer. (Model/ Make must be mentioned)	A
13.	CR System	Digitizer Exposure size:	A
	(computerized	14"x14" / 14"x17" / 11"x14" / 10"x12" / 8"x10"	
	radiography	Sampling pitch:	
	system) with	• 2 Types: 75 μm to 175 μm or better. Digital Gradation level	
	compatible UPS	• 4096 Levels (16-Bit) Processing Capability	
	-	• Up to 60 Plates / hour or better	
		Console	
		1	<u> </u>

- 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 (as per OEM manufacturer) Or

- 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 /Ram Slots: 2 Slots
- Memory Ram Size: 8 Giga Byte, supported up to 16 Giga Byte
- USB: 06 USB Ports or better

Monitor:

Medical grade monitor, color TFT (LCD) (model must be mentioned)

- Size: 19" or better.
- Resolution: 1280x1024 or better.
- Brightness: 300 Cd/m2 or better.
- Contrast Ratio: 2000:1 or better With
- Brightness stabilization
- Back light sensor.
- Power saving mode &
- USB Port.
- Accessories: AC power cord, Signal Cable, USB cable.

Cassettes / Imaging Plates Active dual tray system:

Total 08 No's of different sizes cassettes/ imaging plates.

- 14"x17" (2Nos)
- 11" x 14" or 12" x 15" (2Nos)
- 10" x 12" (2Nos)
- 8" x 10" (2Nos)
- 14"x14" (2Nos)

Laser / thermal with dual tray system:

• Films Size: 14"x17", 11"x14" or 12" x 15",10"x12" 8"x10"

		 Film: Dry Image recording film Image Memory: Print Memory (64MB/Standard) Number of Pixels: 50 um or better Image Data Input: 8-Bits /12-Bits. Output Gradation: 16834 levels (14-Bits) Image Mode: Pixel Replication / Function Interpolation Process Processing Capability: 60-Sheets/ hour or better Protocol: DICOM Print Management. 	
	- C	Compatible UPS (model, make must be mentioned) ONE OF THE PROPERTY OF TH	
14.	Cystoscope flexible set with light source complete	 CYSTOSCOPE FLEXIBLE SET Working length: as per user Distal Tip: 4 .8mm to 4.9 mm. Working channel: 2.4mm or better Active Deflection: 180° to 210°up,120° 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 With compatible light source (Xenon / LED) from the same manufacturer. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 	A
15.	Dialysis Machine	 Voltage source: 220 Vac Color TFT Monitor 10 inch or above. Computerized programmable with graphic screen Electronic control of flow rate and blood flow. Both Bicarbonate and Acetate mode of dialysis application Automatic control for various set bicarbonate proportions. Variable Sodium control concentration system. With Sodium and Ultra filtration Profiles With bicarbonate Profiles. Variable's temperature control Programmable Ultra filtration control system. Ultra-filtration with diffusion With Ultra filtration rate control – fully adjustable / controllable and visible on the screen Balance Ultra filtration control system. Anticoagulant Management System with bolus option intact program system. Automatic priming system with full display system Automatic clean and rinsing mechanism. Display for services diagnostic and rinsing mechanism. 	A

	,		
		With automatic thermal disinfection mechanism (up to or 80°C or above)	
		Blood pump with variable blood flow rate which should be highlighted on the machine.	
		Heparin pump with automatic start, stop bolus with flow rate 0 to 10cc per hour or better on upper side.	
		• Variable flow rate (300-700ml per min or better on either side)	
		• With adjustable temperature control system, up to 39°C	
		• With venous pressure monitor -50 to 400mm Hg or better on either side.	
		• With Arterial pressure monitor "-400mm Hg to +400mm Hg or better on either side	
		With Air bubble detector and Alarm system.	
		Blood leak Detector.	
		With conductivity control system-both for Acetate and bicarbonate	
		solution	
		 Blood pump capability for both adult and paeds. 	
		 Real time graphical / display for dialysis treatment /Does delivery (KT/V) 	
		Real time show dialysate pressure.	
		Real time show dialysate temperature.	
		Real time show dialysate flow.	
		With Endotoxin Filter should have auto ON OFF facility.	
		With battery backup service: 25 minutes or better	
		With inbuilt integrated BPM system	
		Bicarbonate cartridge	
		Storage of up to Ten patient records.	
		Disinfection history. 22014 G 5014	
		• Input power 220VAC, 50Hz.	
		Compatible RO plant with storage tank (Rust-free) (locally assembled	
		with imported parts) to run 4 machines at a time, model, make should	
		be mentioned price should be quoted separately.	
16.	Digital	COMPRISING OF FOLLOWING: -	A
10.	Fluoroscopy Unit		A
	Truoroscopy Omit	 Microprocessor Controlled, High Frequency, 01 Tube Rad/Fluoroscopy type X-ray Generator, 800/1000 mA /150 KV /80 KW. 	
		• 89/30 or more Degree Remote Controlled Rad / Fluoro tilting table, 2-way movement of table top, tube column with Motorized	
		collimator.	
		19 Inch or more LCD Medical Grade monitor on trolley. Overhead retating and deathly Ferry type.	
		 Overhead rotating anode double Focus x-ray tube 01 pair of H.T Cable 	
		or pair of this cause	
		X-RAY GENERATOR	
		Microprocessor Controlled	
		High Frequency, 01 Tube Radiography / Fluoroscopy Operation.	
		Maximum mA Radiography: 800/1000mA	
		Maximum KVp Radiography: 150 KV	

Minimum KV radiography: 40 KVPower Rating: 80 KW

Minimum Exposure Time: 1 millisecond
Maximum mA Fluoroscopy: 4 mA or more
Maximum KVp Fluoroscopy: 100 KV or better

- Self-diagnostics System with error code reporting for fast troubleshooting.
- Automatic mains Line compensation
- Three Point Console
- Anatomical Programming
- Automatic Brightness Control
- Power Requirement: 3 Phase 380/480 V / 50 Hz
- Integrated Operating console with that of remote-controlled table 89/ 30 or more Degree Remote Controlled Tilting table for Rad/ Fluoroscopy
- Diagnostic 89/ 30 or more Degree Remote Controlled Rad / Fluoroscopic Table
- With 2-way movement of table top, 9 Inch Triple field Image Intensifier.
- 2 Nos 19 Inch or more LCD Medical Grade Monitor (Model and Make must be mentioned) on Trolley.
- Automatic light control

Motorized Tilting Table

- Microprocessor controlled for safety, superior reliability, and real time-check of the equipment, including the self-diagnosis function.
- Rad/ Fluoroscopy Diagnostic table to offers full patient support for all radiographic and fluoroscopic procedures from 90 degree vertical through 30-degree Trendelenburg with an automatic stop at the horizontal position.
- Motor driven collimator
- Remote controlled compression, the compression force, adjustable 80 N or more.

Flat Panel DECECTOR

• Detector type: amorphous silicon

• Active area nominal: 14 x 14 Inch

• Pixel size: not more than 160 um

Tube Arm

- Feature of Longitudinal displacement of Tube arm should be available with longitudinal movement of tabletop.
- Focus-film distance: Continuously variable focus-film distance with preset positions at for very high-quality degree in the execution of cardiac and lung examinations.
- Oblique incidences: \pm 0° or better along a longitudinal displacement of 40 cm or better.
- Motorized Collimator

		T .	
		Accessories	
		Adjustable height footrest	
		Shoulder rest	
		Handgrips	
		Compression belt	
		Leg support	
		X-Ray Tube	
		Rotating anode double Focus x-ray tube	
		• Small focus: 0.6 x 0.6 mm	
		• Large Focus: 1.2 x 1.2 mm	
		Anode heat storage capacity: 250 KHU or better	
		Tube Voltage: 150 KV	
		Pair of HT Cable: Not less than 15 meters	
		Software:	
		Software must be DICOM supported. should have the facility to zoom,	
		invert image, contrast adjustment, to export patient diagnostic images to	
		usb and through PACS system, have the facility to show patient ID, name	
		gender, age, and hospital name in the diagnostic image.	
17.	Digital OPG X	Digital panoramic (child, adult), view lateral and Bitewing (child, adult)	A
	Ray	imaging Upgradable to Ceph Micro Processor controlled	
	•	• X-ray generator: High frequency inverter type.	
		Modes for child and adults.	
		 Anode Voltage: 60-90 kV or better on either side in steps of 1 to 2KV 	
		Anode Current: 4-12 mA or better on either side	
		• Exposure Time: 2-20sec	
		• Focal spot:0.5mm	
		• Filtration:2.5 mm Al or better	
		 Computer Desktop with 19-inch medical grade monitor and single tray Dicom printer 	
		• Sensor acquisition of 14-bit images.	
		• Pixel pitch 100 micron or better	
		Control: Automatic Exposure (AEC)	
		Vertical Movement: Motorized and manual Adjustment	
		Patient Positioning: Manual Adjustment	
		Chin rest Centering : Laser Light	
		2 No's Ultra-light Lead Apron for patient and operator: with	
		0.5mm Thick lead sheet	
		• Input power 220VAC, 50Hz	
		Compatible UPS for computer system back up time at least 30	
		minutes. Height Adjustable steel for patients	
		Height Adjustable stool for patients.	

	T==		
18.	-	Flat panel detector with acquisition software and dry film printer Flat	A
	existing X-ray	panel detector (model and make must be mentioned)	
	machines with	The Flat panel Detector should be wireless.	
	compatible	Pixel size of 150 Microns or better.	
	UPS	• The size (active area) of the Flat panel Detector should be at least 14 x 17 inch.	
		• Image's pre-viewing should be available in about less than 3secs	
		 after exposure and the cycle time should be less than 10 seconds. Should have a minimum image depth of 12 bit or better. 	
		Matrix size 2300 x 2800 or better.	
		 KV rang 40 ~ 150kVp 	
		 The flat panel detector should be able to Rotate/Tilt for various 	
		applications.	
		The flat panel Detector should be fixed in the vertical Bucky Stand Should be in position to handle Vertical Chest X Ray, Horizontal	
		Abdominal X Rays applications.	
		AED Mode should be present A to D conversion 14 bits on more	
		A to D conversion: 14 bits or more. Feey positioning at the time of out of bucky exposures.	
		 Easy positioning at the time of out of bucky exposures. The detector should be able to work at normal room temperature 	
		and humidity.	
		The detector system should not require frequent calibrations on	
		daily start-up	
		Offered detector should have load bearing capacity of 160kgs or	
		more.	
		Backup time Battery	
		• Life of the battery 120 images @ 90 s cycle	
		Recharging time less than 3 hours	
		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 has capability to support 2 detectors or more	
		• Image saving in CD/DVD and DICOM format should be possible.	
		• 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	
		capability with PACS.	
		Post processing function must be available. Measurement Tools,	
		Window Level, Rotate, Repeat / Reject, Magnify, Zoom, Images	
		elaboration with examination specific algorithms	
		Filming options should be available	
		• Power Supply – 220V, 50Hz.	

Dry film printer with at least 2 online film trays, for printing the digital images (Model and brand must be mentioned) Compatible UPS (model, make must be mentioned) Fully digital beam former having 4,000,000 or more digital processing High End Echo Α Machine channels with integrated data management system having 1TB hard disk drive for still and cine clips storage and 128GB or more SSD for operating system and application software. Modes: 2d/m-mode, doppler, pw, cw & hprf doppler, color flow imaging System capability 1.5 – 22 mhz or more, m-mode, tissue harmonic imaging, Tissue doppler imaging with pulse wave tdi doppler spectrum. Viewing depth: 40cms or better. Frame rate: 1200 or better. Built-in cine loop: 2000 frames/256 mb or better. Real time freeze & image magnification ability better than 10 x pre & post processing • Sweep speed: slow, medium, fast 12" or better touch command screen for easy operation of the system. System dynamic range: 50 to 220db or better **Doppler mode specifications:** Pulse repetition frequency range. Pwd: 1-20 khzCwd: 1-50 khzDoppler beam steering On line 4-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 completes with following facilities and accessories: 21-inches or better display (lcd/tft).

	1		
		 Ecg including cables and transducers/electrodes. 	
		Standard probes	
		• 2-5 mhz or more multi-frequency sector probe for adult. (model and make must be mentioned)	
		• 2-7.0 mhz sector probe for paeds. (model and make must be mentioned)	
		• $4.0 - 10$ mhz or more sector probe for neonates. (model and make	
		must be mentioned)	
		• 4.0 – 10 mhz or more multi-frequency linear probe 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)	
20.	Echo Machine	Fully digital beam former having 150,000 or more digital processing	A
		channels with integrated data management system having 500GB hard disk	
		drive for still and cine clips storage.	
		Modes:	
		 Wodes. 2d/m-mode, doppler, pw, cw & hprf doppler, color flow imaging 	
		• System capability 1.5 – 16 mhz or more	
		· · · · · · · · · · · · · · · · · · ·	
		Tissue harmonic imaging, Viewing donth, 20 mg or better	
		Viewing depth: 30cms or better.Frame rate: 500 or better.	
		Built-in cine loop: 2000 frames/256 mb or better. Deal time fragge frames magnification shility better than 4y mag fragge.	
		• Real time freeze & image magnification ability better than 4x pre & post processing	
		Sweep speed: slow, medium, fast "" or better tough command syroon for easy operation of the system.	
		8" or better touch command screen for easy operation of the system. System dynamic range, 50 to 180 db or better.	
		System dynamic range: 50 to 180db or better Denniar mode gnesifications:	
		Doppler mode specifications:	
		On line 3-ports for trans-thoracic probes.	
		Doppler beam steering and bi-directional stereo audio.	
		Color doppler	
		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. 	
		 2D wall motion tracking for strain rate imaging. 	
		 Stress echo system. 	
		 Upgradeable to contrast hormonic imaging. 	
		Measurement package:	
		Modernent 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 completes with following facilities and accessories: 21-inches or better display (lcd/tft). Standard probes: 2-5 mhz or more multi-frequency sector probe for adult. (model and make must be mentioned) 3-7.0 mhz sector probe for paeds. (model and make 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) 	
21.	Elisa Machine (Reader, incubator shaker and Washer) Programmable with UPS	Consisting of The Following Components. For micro plate assay. Plate Reader: Eight channel vertical light path filter photometer End point and kinetic reading modes Software for calculation modes Storage for up to 96 assay protocols Range 400 to670nm Bandwidth up to 10nm Accuracy ±2% Precision 0.5% Reading speed 5 secs/ plate or better RS232 interface or USB interface 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.	A
		 With LED display Washer 8/12 channel: Micro plate washer to deliver washer buffer and ensure complete liquid removal. Minimum plates 96 Programs for flat, round and V type plates. Automatic plate detection Auto alignment and row detection Complete with wash, rinse, waste bottles and piping. UPS: Branded and compatible UPS for at least 30 minutes backup. Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz. 	

		The bidder will provide kits for HCV, HBsAg, HIV patients along with the machine free of cost at the time of installation	
22.	Endoscope Gastro duodenal	 HIGH-DEFINITION GASTRO-VIDEO SCOPE High definition Compatible with standard set of accessories. Field of view: 140mm or more Working length: 1030mm or more Outer diameter: 9.8 mm or less Depth of field 3 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 high Standard xenon / LED light source (from same manufacturer) and video processor with USB Port. With medical grade monitor 26" or better Resolution: 1920x1080 P or better. Brightness: 300 Cd/m2 or better. Contrast Ratio: 2000:1 or better With Automatic Light Control Back light sensor. Accessories: AC power cord, Signal Cable, USB cable. Along with trolley (Local). Endoscope Disinfector 	A
23.	Esophagoscopes instruments set	 Locally Made (Model and make must be mentioned) Esophagoscopes tube, Appr. Size 1, 6x8 mm (h x w) 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. Working Length:700mm, Ultra Slim Instrument Channel: 3.7 mm. Deflection (Up/Down):180/90 deg. Deflection (Right/Left):110/110 deg. Depth of focus: 5-100mm. Biopsy Forceps, dia2.1mm. Injector Cannula. 	A
24.	ETT Machine	 Specification: PC based computerized stress test machine with window-based software. 12-Channel Stress Test with recording, presentation and Evaluation of ECG. 	A

		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	
		QT desperation software	
		• Interpretation	
		Treadmill (Model and Make must be mentioned):	
		Heavy duty whispers quiet even at high speed	
		• Speed :0 – 16.0 km/h or better	
		• Elevation: 0 ° to 20 °	
		• AC 220V / 50Hz	
		Patient weight :170 kg or better Energy size star bytter	
		 Emergencies stop button Side and front rail 	
		Computer system (Model and Make must be mentioned):	
		Branded computer system compatible with Unit.	
		• 19 Inch TFT monitor with resolution of 1024x1024.	
		Alphanumeric key board and mouse.	
		CPU (Model and Make must be mentioned):	
		• Intel Core i7	
		Processor 8Mb cache 3.40GHz	
		• 16GB RAM DDR3	
		1TB internal Hard Disk	
		DVD R/W	
		With Mouse and Keyboard	
		Components:	
		ECG Amplifier (Model and Make must be mentioned)	
		Patient cable	
		Laser printer (Model and Make must be mentioned)	
25.	Fully Automated	Microprocessor based windows internal or external operated system	A
	Chemistry	• Samples / Hour: 180-200 or better tests, up to 320 or better tests/hr	
	Analyzer	with ISE.	
	with UPS	• Sample Tray with 30 or more sample positions for primary tubes and	
		test tubes.	

		Regent position 30 or more	
		• Sample Volume: 2 μL – 30 μL.	
		Probe Sensors: Liquid level detection and collision protection.	
		Probe cleaning: Automatic washing.	
		Wavelengths: 340nm to 670nm.	
		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	
		• Tubes 01 set (50 Tubes)	
		• Fuse 01	
		• Extra Lamp 01	
		• User manual	
		Operation Software.	
		UPS:	
		Branded and compatible UPS for at least 30 minutes backup.	
		• Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz.	
		The bidder will provide kits for 100 patients along with the machine free of cost at the time of installation	
26.	Grey Scale	• Imaging Mode: B, B/B, B/M, M, 4B	A
	Portable / Mobile	• 12" or more LCD monitor	
	Ultrasound	• Scanning Depth: From 2.0 – 35 cm minimum or more	
	Machine	 Hard Disk: 500 GB or more HDD 	
		 Cine loop Memory in B/B, M and B/M Mode 	
		 Zoom: Pan Zoom in Real Time & Frozen Condition 	
		 Measurement Calculation: B-Mode: Distance, Circumference, Area, Volume 	
		Built-in Imaging Archive for storage of Still and Cine Clips	
		 M-Mode, Distance, Time, Velocity, Heart Rate (2 Cycles) 	
		 Pulsed Wave Doppler with adjustable gate size 	
		 Software Packages: Abdomen, Urology, Gynecology, Obstetrics, 	
		Cardiology, Vascular, Small Parts, Orthopedics	
		• Power Supply: 100-240V AC 50/ 60 Hz	
		TGC: 8-Segment or More	
		• 2 or More Active Probe Connectors in Main Unit •	
		Tissue Harmonic Imaging	
		USB Ports and BNC Connector for Thermal Printer	
		Measurement and Calculation Software Package	
		Electronic Convex Array Transducer: 2.0 - 5.0 MHz or More	
		Electronic Linear Array Transducer 5.0 - 10 MHz or More	
		Built-in battery for backup of at least 90 minutes or better	
		Stabilizer: 1 KVA or better	
		Thermal printer	
		• Gel 20 Liters	

27.	Hematology	Consisting of:	A
	Analyzer 3 Part	Hematology Counter with 3 Parts differential automated.	
	differential with	• Throughout 40 Samples / Hour or better.	
	UPS	 Minimum 18 or better parameters including Hb, WBC, RBC, 	
		MCV, Plt, and Derived values.	
		 Flagging of results outside user defined limits. 	
		Micro sampling capability.	
		Auto Calibration Program.	
		Reagent level alert.	
		System monitoring	
		Automated start up and shutdown	
		• Result storage: up to minimum 500 results.	
		Patient data entry and specimen recognition by Keyboard.	
		• RS 232 Interface.	
		Internal Printer.	
		With inbuilt auto-sampler or external specimen mixer.	
		 Consumables, Reagents, Calibrators, Controls for startup. 	
		• The bidder will provide kits for 500 patients along with the	
		machine free of cost at the time of installation.	
		UPS:	
		Branded and compatible UPS for at least 30 minutes backup.	
		• Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz.	
		Note: The bidder must quote the price / test or reagents pack of 500 tests or 1000 tests price separately.	
28.	Hematology	Consisting of:	A
	Analyzer 5 Part	 Hematology Counter with 5 Parts differential automated. 	
	differential with	• Throughout 60 Samples / Hour or better.	
	UPS	 Minimum 26 or better parameters including: WBC, LYM, MON, 	
		NEU, EOS, BAS, LYM%, MON%, NEU%, EOS%, BAS%, RBC,	
		HCT, MCV, RDW-sd, RDW-cv, HGB, MCH, MCHC, PLT, PCT*,	
		MPV, PDW-sd*.	
		Flagging of results outside user defined limits.	
		Micro sampling capability.	
		Auto Calibration Program.	
		Reagent level alert.	
		System monitoring	
		Automated start up and shutdown Part 1	
		Result storage: up to minimum 20,000 results.	
		Patient data entry and specimen recognition by Keyboard. PS 222 L + - 6	
		RS 232 Interface. Interpol Printer	
		Internal Printer. With inhall contained an enternal an eigenen prince.	
		With inbuilt auto-sampler or external specimen mixer. Consumables Property Calibratary Controls for starture.	
		Consumables, Reagents, Calibrators, Controls for startup. The hidden will provide bite for 500 nations tooks along with the	
		• The bidder will provide kits for 500 patients tests along with the machine free of cost at the time of installation.	
		UPS:	
		Branded and compatible UPS for at least 30 minutes backup. Input Voltage: 110,260y 50Hz, Output: 220y 50 Hz.	
		• Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz.	

		Note: The bidder must quote the price / test or reagents pack of 500	
•	ICH C 4 1	tests or 1000 tests price separately.	A
29.	ICU Central	Central Station Monitor for use in intensive and coronary care units.	A
	Station for cardiac monitors	• Unit shall be capable of monitoring a minimum of 8 beds and a maximum of 32 beds.	
		• Shall provide Most recent 240 hours of tabular trends and graphic trends for all parameters.	
		Shall allow instant alarm bed viewing.	
		Each bed monitor window shall always be displayed.	
		The user shall be able to easily configure the display.	
		Shall be capable of producing a shift report including graphic	
		trends report, tabular trends.	
		• Full patient report.	
		 Provide graphical analytic tool for myocardial ischemia which can help to quickly view the ST value changes. 	
		Shall be supplied with the following:-	
		 Installation Kit including Hub Controller, cabling (according to the need of institution) 	
		Laser Printer Interface, Laser Printer (Model and Make must be mentioned)	
		Central Monitor (Model and Make must be mentioned):	
		• Screen size must be 32" or better.	
		Software from same manufacturer with all certificates	
		Branded CPU (Model and Make must be mentioned):	
		Intel Core i5 or better	
		Processor 2.40GHz or better	
		4GB RAM or better	
		1TB internal Hard Disk or better	
		DVD R/W	
		With Keyboard and Mouse	
		All the parameters displayed on the monitors should also be displayed	
		on the central station monitor and should be compatible with each	
		other.	
		Multi Parameter Patient Monitor. (Model and Make must be mentioned)	
		(5ch ECG, SpO2, NIBP, Dual IBP, TEMP, Resp.,ETCO2)	
		• Display for easy Viewing 15" or better color TFT/LCD/ LED for easy set-up User selective 10 or better traces/ waveform display.	
		• ECG, SpO2, NIBP, IBP, 2-TEMP, and Respiration	
		• EtCO ₂ (Side stream type with basic accessories)	
		 18 or more Arrhythmias analysis should be detected and alarmed. 	
		Multi-lead ECG algorithm	
		S-T and QT Analysis	
		Pacemaker detection.	
		Support heart rate analysis and dynamic NIBP analysis	
		IBP cable and sensor kit	

	T	T T	
		• Up to 72 hours of graphic and tabular trend of all parameters.	
		PERFORMANCE:	
		Heart rate: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-	
		350bpm or better	
		1 -	
		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. Town and true:	
		Temperature:	
		• Range; 0 -50C(32 - 122F)	
		NIBP:	
		• Range; 15-260 mmHg (± 10 mmHg)	
		GENERAL:	
		• <u>Display:</u> 15" or better Color TFT/ LCD/ LED or better (with all	
		parameters display)	
		Alarmy All perometers on/off selective independently.	
		Alarm: All parameters on/off selective independently Deven input 220Vac 50Uz	
		Power input 220Vac,50Hz With Pottery Poolsyn times Minimum 05 hours or better	
		• With Battery Backup time: Minimum 05 hours or better ACCESSORIES:	
		• ECG 5 Lead cable. 1	
		 Disposable Electrodes Adult, Neonate & Paeds. 20 each 	
		SPO2 Finger sensor with fixed or detachable extension (each for	
		adult, Peads and neonate) 1	
		NIBP Reusable Neonate, Paeds & Adult Cuff	
		• NIBP Hose	
		• AC power code	
		• Ground cable 1	
		Operation Manual	
		• ETCO2 (Side stream) with basic acc.	
		• IBP Cable 1	
		• Temperature sensor & cable 1	
		Note: Prices of Central Station Monitor and Patient Monitor must be	
		quoted separately.	
30.	ICU Ventilator	Ventilator, electrically operated microprocessor controlled, suitable	A
	(Neonatal&	for adult / Paeds / Neonate use.	
	Pediatric &	• Tidal Volume: 25 ~ 2000 ml or better on either side.	
	Adult)	• Frequency: 1 ~ 120b/min or better on either side.	
	,	• I:E ratio: 1:7- 4:1 or better	
		• Inspiratory Time: 0.2-8s or better	
		Inspiratory Pressure: 3-60 cmH2O or better	
		Support Pressure: 0-60 cmH2O or better	
		• Pressure Trigger: -200.5cmH2O, OFF	
		• Flow Trigger: 0.5-20 L/min (neonatal 0.1-5.0L/min), OFF	
		• PEEP: 0-30 cmH2O	
		• FiO2: 21-100%	

31.	Laparoscope machine	 Patient Circuit: Autoclavable / disinfectible (adult, Peads & Neonate) Supplied with pole clamp. O2 and Air input hoses With compatible Humidifier. Modes: Invasive and non-invasive ventilation which could be used inside ICU or outside ICU. Volume control: CMV/AC, SIMV, PRVC Pressure Control: CMV/AC, SIMV, CPAP, PS Adaptive ventilation mode, APRV, Duo level (Bilevel) Monitoring: Standard parameters One Hour or more Built-in Battery Backup TFT / LCD Monitor Size: 12" or more Display Loops including Pressure-Volume, Flow-Volume, Flow Pressure, show up to 2 loops simultaneously. Should operate on O2,Air/ or both Alarms for Gas failure, RR, Pressure, Apnea, Volume, Low Battery With built-in Turbine/compressor (03 Hrs or more backup UPS) With Trolly. Gynea and General Laparoscopy System High definition three chip (CCD) /CMOS Camera System Camera Console 220V with Universal Coupler. 	A
		 Brightness Control on Console and camera head Digital Zoom (should have facility of digital zooming) 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 watts. Xenon/LED Bulb (with one spare bulb) Light Adjustment Standby Mode Universal Jaw Assembly branded FIBER OPTIC CABLE 4.5 to 6.5mm x 240 cm or better Snap fit cable 	
		 MONITOR (from same manufacturer) Quantity: 2 27 inch 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 	

- Brightness stabilization
- Back light sensor.
- 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

Along with stainless steel Trolley (Locally export quality) Along with compatible cautery / diathermy.

Adult Laparoscopic instruments for general surgery and Gynae

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
- 30 degree, 5mm

Trocars (Long & Standard):

5 mm
 10 mm
 03Nos each
 03Nos each

Scissor: As per working length

Grasping forceps	03 No				
Grasping and dissecting forceps	02 No				
L Hook electrode:	01 No				
Universal Monopolar cable:	01 No				
Insufflation's needle:	01 No				
Suction/irrigation cannula	01 No				
Clip applicator:	01 No				
Needle Holder:	01 No				
Uterus Manipulator	01 No				
Knot Pusher:	01 No				
Reducing sleeve 5mm to 10mm	02 No				
Container system for instrument and telescope					

Peads Laparoscopic instruments

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

- Wide angled distortion free view
- Universal adaptor for other light sources
- 30 degree, 4mm,

		0.1	
		• 0 degree, 5mm	
		• 30 degree, 5mm	
		Tropous (Long & Standard)	
		Trocars (Long & Standard):	
		• 5 mm 02Nos each	
		• 3.5mm to 4 mm 02 Nos each	
		• 10 mm 01Nos each	
		Scissors for peads surgery (3.5-4mm)	
		Grasping forceps (3.5-4mm)	03 No
		Grasping and dissecting forceps (3.5-4m)	
		L Hook electrode (3.5-4mm):	01 No
		Universal Monopolar cable:	01 No
		Insufflation's needle:	01 No
		Suction/irrigation cannula (3.5-4mm):	01 No
		Clip applicator:	01 No
		Needle Holder	01 No
		Uterus Manipulator:	01 No
		Knot Pusher:	01 No
		Reducing sleeve 5 mm to 10 mm	01 No
		Reducing sleeve 3.5 mm to 5 mm	
		Container system for instrument and tele	=
		Note: Prices must be quoted separately	
		Gynea and General Laparoscopy	•
		Adult Laparoscopic instruments f	or general surgery and Gynae
	N 1 1 C A /	Peads Laparoscopic instruments	' 11 1 0 TT' 1 A
32.	Mobile C-Arm/	Mobile C-Arm Image Intensifier with r	nicroprocessor controlled & High A
	Image Intensifier	frequency, X-Ray Generator.	
	(Fluoroscopy)	Output Power : 2 KW or better	
		 Radiography & Fluoroscopy KV 100mAs or better 	7: 40-110 KV or better with 0.4-
		Technique selector switch for Flu	oro & Rad. Mode Selection.
		Anatomical Programmed should	be provided in radiography mode.
		Continuous Fluoroscopy: 5 mA of the continuous Fluoroscopy: 5	or better
		Boost mode mA range: 10mA	
		System should have ABC control	
		System should have auto-Mode	e and Manual mode for user in
		fluoroscopy.	
		 9-inch Image Intensifier (brand m 	nodel must be mentioned) N=9 inch
		, M1=6 inch , M2=4.5 inch	
		Digital CCD Camera with 1Kx1	
		Stationary Anode Double Focus	
		• Focal spot 0.6, 1.8 or less / single	-
		2 No's medical grade TFT monitor	ors on trolley, Size: 19 inch or
		better.	
		DIGITAL IMAGE MEMORY SYSTE	
		100 images Storage Memory with last im	nage hold, Recursive filter,
		Negative image & contrast enhancement	. Facility Store image in Pen drive
		Cassette holder tray for radiograp	hy

		C-Arm movement	
		Orbital rotation should have 120° or better.	
		Rotation +180°	
		Horizontal travel 200mm or more	
		 Motorized Vertical Up/Down 400 mm or more. 	
		 Wigwag + 12° or better 	
		Power Requirement:	
		• 220VAC, 50Hz	
		Accessories for Protection:	
		3 Apron lead thickness 0.5mm	
		• 2 Thyroid shield lead thickness 0.5mm	
		USP:	
		Compatible online UPS for at least 20 minutes or more backup	
33.	Mobile X-Ray	Mobile X-ray machine battery operated, and motor driven by the battery	A
	plant 300	system general purpose mobile x-ray unit for radiography.	
	mA/125KV AC	X-Ray Generator	
	& Battery	KV Range: 40kv to 125 kV in 01 kV Steps.	
	Operated	• mA Range: Max. 300mA or better	
	o p seems a	• mAs range: 1 mAs to 300mAs or better	
		• 30KW or better	
		 Preset anatomical programs (APR) available for different parts 	
		of body.	
		Number of exposures which can be done on fully charged	
		battery should be greater than 80.	
		X-Ray Tube Unit	
		Rotating anode: Single / Double focus	
		• Focus Size: 0.7&1.3 mm or better on	
		either side.	
		 Anode heat storage capacity: 100 KHU or better 	
		X-Ray Beam Limiting Device Projector Lamp: Halogen/LED	
		• Filtration: 1.2mm Aluminum or better.	
		Colum adjustment facility available	
		Collimator rotation available	
		Independent battery system for exposure and movement	
		Transportation mode	
		Examination mode	
		Big wheel for easy movement	
		Brakes for control of movement	
		 Input voltage 100-220VAC, 50Hz 	
		 Cassette Box: For Storage of at least 3 Cassettes 	
		2 No's lead Apron thickness 0.5mm	
34.	Nasopharyngosco	Flexible Naso-pharyngo-laryngoscope for universal application,	A
	pe with suction	Immersible.	
	r	• Outer dia: 3.6mm or less	
		• Working length: 300mm to 400mm,	
		• Total Length: 545mm or better	
		• Deflection up/down: 130°/130°	
		Defrection up/down. 150/150	

	1		
		• Depth of Focus: 5mm to 50 mm,	
		• Field of view: 75° -85° or better	
		• Complete with compatible light source and fiber op	otic cable.
		VIDEO SYSTEM	
		 HD Camera Head compatible with scope, image pr 	ocessor having
		capability of image storage and transfer in USB etc	Medical Grade
		monitor having display size 21 inch or more should	l be mounted on
		trolley.	
		• Voltage source : 220 Vac	
35.	Operating	 Inclinable binocular tube with converging optics 	A
	Microscope for	• Paired eye pieces 10xs/12.5 xs	
	ophthalmology	 Adjustable / Continually motorized zoom. 	
		 Motorized fine focusing with foot control. 	
		• Objective f=175mm.	
		LED illumination system with variable light intensi	ity control.
		UV filter, cobalt blue, and green filters.	
		Mobile floor stand with manual height adjustment to	through
		counter balanced arm.	
36.	Semi-Automated	Easy keypad operation with LCD Display / touch	screen. A
20.	Chemistry	 Wavelengths range is 340-670nm (± 10nm) 	
	Analyzer with	 Supports flow cell and curette mode. 	
	UPS	 Supports flow cell and curette mode. Analytical models include kinetic, fixed time. Bi-o 	phramatic and
		point with or without regent blank or sample blank	
		linear calibration curves.	x, finear of non-
		 Up to 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	D.
		• Wavelengths: 340-670 (± 10nm)	
		• Wavelength Accuracy: ±1nm to ±3nm	
		• Band Width: < 8nm.	
		• Flow Cell: Metal – quartz flow c	cell.
		• Temperature Control: 37° C, ±0.1°C	and ambient
		• Output: Internal Printer.	
		• Interface: Rs-232 serial cable.	
		 Two extra Lamp. 	
		UPS:	
		 Branded and compatible UPS for at least 30 minut 	tes backup.
		• Input Voltage: 110-260v 50Hz, Output: 220v 50	<u> </u>
		The bidder will provide kits for 100 patients along with free of cost at the time of installation.	the machine
37.	Sigmoidoscope	Features of Sigmoidoscope:	A
	with universal	Specifications and Qualifications:	
	lighting		
		• Angle of view field: 100° or more	
		8	
		• Diameter of Distal End: ø13mm or les	SS

Diameter of Insertion Tube: \$012.8mm or less				
Depth of View: 3-100mm or more Diameter of Instrument Channel: 63.2mm or more Working Length: 750mm to 950mm or better Working Length: 750mm to 950mm or better Working distance: 56mm or more Light Source: Along with compatible light source (Xenon/LED) power (from the same manufacturer). Power voltage and frequency ~ 220V/50HZ Air pump: 0.03MPa= Pressure=0.06Mpa; Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible Outer Dia, 3.5mm. Utlangth 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm Field of view 95° or better. Instrument Channel 1.1 mm Dia. With compatible light source (From same manufacturer) and fiber optic cable. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 39. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification Changer: 2 steps. Total magnification changer: 10-80mm or better. Diopter Adjustment: 50-80mm or more. Slit Usength: 0-10 mm.			180°D,	
Diameter of Instrument Channel: 93.2mm or more Working Length: 750mm to 950mm or better Working distance: 56mm or more Light Source: Along with compatible light source (Xenon/LED) power (from the same manufacturer). Power voltage and frequency ~ 220V/50HZ Air pump: 0.03MPa= Pressure~0.06Mpa; Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible Outer Dia, 3.5mm. W1.400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification changer: 2 steps. Total magnification range: x10 to x16 or better. Papillary Adjustment: 50-80mm or better. Diopter Adjustment: 2/-5D or better Light source: LED Slit Illumination: Slit Width: O-10 mm or more. Slit Length: Slit Length: O-10 mm or more. Slit Length: Slit Length: O-10 mm or more. Slit Length: O-10 mm or more.			160 °L	
Diameter of Instrument Channel: 93.2mm or more Working Length: 750mm to 950mm or better Working distance: 56mm or more Light Source: Along with compatible light source (Xenon/LED) power (from the same manufacturer). Power voltage and frequency ~ 220V/50HZ Air pump: 0.03MPa= Pressure~0.06Mpa; Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible Outer Dia, 3.5mm. W1.400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification changer: 2 steps. Total magnification range: x10 to x16 or better. Papillary Adjustment: 50-80mm or better. Diopter Adjustment: 2/-5D or better Light source: LED Slit Illumination: Slit Width: O-10 mm or more. Slit Length: Slit Length: O-10 mm or more. Slit Length: Slit Length: O-10 mm or more. Slit Length: O-10 mm or more.			Depth of View: 3-100mm or more	
Working Length: 750mm to 950mm or better			1	
Working distance: 56mm or more Light Source:				
Light Source: Along with compatible light source (Xenon/LED) power (from the same manufacturer), Power voltage and frequency ~ 220V/50HZ Air pump: 0.03MPa= Pressure=0.06Mpa; Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible Outer Dia, 3.5mm. WI.400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Slit Lamp Binocular Microscope. Magnification Changer: Total Lamgnification range: x10 to x16 or better. Diopter Adjustment: Diopter Adjustment: Diopter Adjustment: Slit source: LED Slit illumination: Slit Length: Slit Length: Slit Length: O-10 mm or more. Aperture Diameter: O, 3, 6, 5, 10 mm.				
the same manufacturer). Power voltage and frequency ~ 220V/50HZ Air pump; 0.03MPa= Pressure=0.06Mpa; Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible Outer Dia, 3.5mm. WL400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Binocular Microscope. Magnification Changer: 2 steps. Total magnification range: x10 to x16 or better. Diopter Adjustment: ±/-5D or better Light source: LED Slit Illumination: Light source: LED Slit Illumination: Slit Wength: 0-10 mm or more. Slit Uength: 0-10 mm.				
• Air pump: 0.03MPa= Pressure=0.06Mpa; Video System: • HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 38. 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 Section 3.6 mm. • Deflection up/down 180°/90° • Depth of Focus 3-50 mm • 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. Video System • HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 39. Slit Lamp • Binocular Microscope. • Magnification Changer: 2 steps. • Total magnification range: x10 to x16 or better. • Papillary Adjustment: 50-80mm or better. • Diopter Adjustment: ±/-5D or better • Light source: LED Slit illumination: • Slit width: 0-10 mm or more. • Aperture Diameter: 0, 3, 6, 5, 10 mm. • Slit Length: 0-10mm.				
Video System: HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Sinus Endoscopy set with proof puncture needles Outer Dia, 3.5mm. WL400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification range: x10 to x16 or better. Papillary Adjustment: 50-80mm or better. Diopter Adjustment: ±/-5D or better Light source: LED Slit illumination: Slit Vength: 0-10 mm or more. Aperture Diameter: 0, 3, 6, 5, 10 mm. Slit Length: 0-10mm.			 Power voltage and frequency ~ 220V/50HZ 	
HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. Flexible Sino scope for universal application also in pediatric, immersible			 Air pump: 0.03MPa= Pressure=0.06Mpa; 	
capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 38. 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 Section 3.6 mm. • Deflection up/down 180°/90° • Depth of Focus 3-50 mm • 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. Video System • HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 39. Slit Lamp • Binocular Microscope. • Magnification Changer: 2 steps. • Total magnification range: x10 to x16 or better. • Papillary Adjustment: 50-80mm or better. • Diopter Adjustment: ±/-5D or better • Light source: LED Slit illumination: • Slit Width: 0-10 mm or more. • Aperture Diameter: 0, 3, 6, 5, 10 mm. • Slit Length: 0-10mm.			Video System:	
set with proof puncture needles Outer Dia, 3.5mm. WL400mm or better.			capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on	
puncture needles Outer Dia, 3.5mm. WL400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 39. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification range: x10 to x16 or better. Papillary Adjustment: 50-80mm or better. Diopter Adjustment: ±/-5D or better Light source: LED Slit illumination: Slit Width: 0-10 mm or more. Aperture Diameter: 0, 3, 6, 5, 10 mm. Slit Length: 0-10mm.	38.	Sinus Endoscopy		A
WL400mm or better. Total Length 650 mm. Dia of Flexible Section 3.6 mm. Deflection up/down 180°/90° Depth of Focus 3-50 mm 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. Video System HD Camera Head compatible with scope, image processor having capability of image storage and transfer in USB etc Medical Grade monitor having display size 21 inch or more should be mounted on trolley. 39. Slit Lamp Binocular Microscope. Magnification Changer: 2 steps. Total magnification range: x10 to x16 or better. Papillary Adjustment: 50-80mm or better. Diopter Adjustment: ±/-5D or better Light source: LED Slit illumination: Slit Width: 0-10 mm or more. Aperture Diameter: 0, 3, 6, 5, 10 mm. Slit Length: 0-10mm.		set with proof		
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 Aperture Diameter: 0, 3, 6, 5, 10 mm. Slit Length: 0-10mm. 			Slit illumination:	
• Slit Length: 0-10mm.			• Slit Width: 0-10 mm or more.	
• Slit Rotation: \pm /-900.				
			• Slit Rotation: ±/-900.	

		Paga mayamant ag nan manufaatuna dagigni	
		Base movement as per manufacture design:	
		Vertical Movement:	
		Longitudinal Movement	
		Lateral Movement	
		• Fine Base Movement.	
		<u>Chin rest:</u>	
		Vertical Movement	
		Local motorized table.	
40.	Transport /	Transport / Portable Ventilator for Ambulance:	A
	Portable	Unit to be used for adult and child ventilation during	
	Ventilator for	Cardiopulmonary resuscitation and for ventilation during	
	Ambulance:	transpiration, when necessary.	
		Display size 8 inches TFT touch screen or more	
		• To have frequency control 1 to 100 bpm,	
		Tidal volume control 20-2000ml	
		 Inhalation pressures monitor 5 to 80 cm H2O. 	
		• Oxygen control 21 to 100%.	
		• Ventilation Modes: V-A/C, P-A/C, V-SIMV, P-SIMV, CPAP,	
		PSV, Apnea, NIV (Non-invasive ventilation)	
		PEEP facility 1 to 30 cmH2O or better.	
		• I:E Ratio: 4:1 - 1:10 or better	
		Monitoring:	
		• FiO2, MV, MVspn, MVleak, TVi, TVe, TVe spn, Ppeak, Pplat,	
		Pmean, PEEP, ftotal, fmand, fspn, R,C	
		Alarm settings: Tidal Volume, Minute Volume, Air pressure,	
		Frequency, FiO2, Apnea alarm time 5-60s	
		Patient circuit silicon Adult and paeds type autoclavable.	
		With built in battery Backup of 4 hours or more	
		• Input Voltage: 220V, 50 Hz AC /12V DC,	
		Test Lung Adult/Peads.	
		With turbine (Built-in)	
41.	Ultrasound	Heavy duty U/S machine (inbuilt trolley mounted) with	A
	machine	• Imaging Mode: B,B/B,M,M	
	(General	Gray Scale: 256 or better	
	•	• Display: 15" TFT or better	
	purpose) within	 Scanning Depth: From 20 To 248 mm or better on either side 	
	built trolley		
	mounted	Pre-Processing: Signal Processing, Dynamic Range, Frame Correlation, Line Correlation,	
		Image Enhancement, Scanning Angle Selection, Harmonic Imaging)	
		Imaging)	
		Post-Processing Gray Map Y- Correction, Rejection Left-Right	
		Reverse, Up-Down Reverse Hand Dialy 500 CB on bottom	
		Hard Disk: 500 GB or better Cine Lear 256 Frame or better Cine lear Manage In	
		Cine Loop: 256 Frame or better Cine loop Memory In D. M. and B. M. Manda.	
		B/B, M and B/M Mode. B B B B B B B B	
		Zoom: Pan Zoom in Real-Time & Frozen Condition	
		Measurement & Calculation: Output Description:	
		B-Mode: Distance, Circumference, Area, Volume, Angle, Ratio.	

		 Built-In Imaging Archive" Storage : Over 100,000 still Images" Histogram, Profile, 	
		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:	
		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 Flacture Convey Agree Transducer (Model great be	
		• Electronic Convex Array Transducer. (Model must be mentioned).2.5/3.5/5.0 MHz.	
		 Electronic Linear Array Transducer: (Model must be 	
		mentioned) 5.0/7.5/10 MHz.	
		• Thermal Printer (Branded, model and make 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.	
		Note: TVS probe price should quoted separately (optional)	
42.	X-Ray Plant	FREQUENCY X-RAY MACHINE 300 MA (RADIOGRAPHY ONLY)	A
	300mA in built	with Inbuilt or external AVR and UPS, in case of external AVR the model	
	or external AVR	/brand /make of the main x ray unit and each quoted component must be	
	and UPS	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 and 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 / 25 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 The standard	
		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: 25 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: 220VAC, 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.

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 8:1

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)

- Vertical Travel, up and down with balancing system & Electromagnetic Brakes
- Oscillating Grid
- Cassette Tray to accommodate cassettes up to 14x17 inch.
- Grid ratio 8:1.

X-Ray Plant HIGH FREQUENCY X-RAY MACHINE 500 MA (RADIOGRAPHY

500mA with inbuilt or external AVR and UPS.

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 100V to 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 and 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 / 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
- 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: 32 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/wall mounted control console.
- Automatic main line compensation.
- Input voltage: 220V, 50Hz.

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

- 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.

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

		,	
		 Four-way floating top. 	
		Oscillating Grid Ratio 8:1	
		 Cassette Tray to accommodate cassettes up to 14x17inch. 	
		Electromagnetic Brakes.	
		• Grid ratio 8:1	
		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 WALL DIGGENERAL COLUMN (CEANING)	
		WALL BUCKY STAND (model must be mentioned)	
		 Vertical Travel, up and down with balancing system & 	
		Electromagnetic Brakes	
		Oscillating Grid Ratio 8:1	
		Cassette Tray to accommodate cassettes up to 14x17 inch	
44.	X Ray Plant	HIGH FREQUENCY X-RAY MACHINE 500 MA (RADIOGRAPHY	A
	500mA (3-	ONLY)	
	Phase)	• Input power: 3φ, 380 - 440v, 50 Hz,	
		X-RAY unit Comprising of following.	
		High Frequency X-Ray Generator 500mA /150 KV / 40 KW 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: 1ms – 8.0 sec or more 	
		 Exposure time range. This – 8.0 sec of more mAs Range: 02 - 500mAs or more 	
		Anatomical Programming: 100 or more. Digital dignless of parameters a Hand Switch for Radiography.	
		 Digital display of parameters. • Hand Switch for Radiography. • With control console. 	
		Pedestal/wall mounted control console. Automotic main line companyation.	
		Automatic main line compensation. POTATING ANODE DOUBLE FOCUS YPAY TUBE (model must be	
		ROTATING ANODE, DOUBLE FOCUS XRAY TUBE (model must be	
		mentioned)	
		• Small Focus: 0.6 x 0.6 mm or Less.	
		• Large Focus: 1.2 x 1.2 mm or Less.	

		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		• Tube voltage: 150kV.	200 WHI	
		Anode heat storage capacity FOUR WAY FLOATING TOP BY	-	
		FOUR WAY FLOATING TOP BU	JCKY TABLE (model must be	
		mentioned)		
		 Four-way floating top. 		
		Oscillating Grid Ratio 8:1 of the second secon	or better	
		Cassette Tray to accommod	date cassettes up to 14x17inch.	
		 Electromagnetic Brakes. 		
		 Grid ratio 8:1 or better 		
		COLUMNSTAND WITH MANU	ALCOLLIMATOR (model must be	
		mentioned)		
		Column stands with electro	omagnetic brakes for movement	
		control.		
		Manual Collimator		
		HIGH TENSION CABLES:		
		Pair of High-Tension Cable	es, each 12 m or more long	
		WALL BUCKY STAND (model r		
		Vertical Travel, up and dov		
		Electromagnetic Brakes	vii vitii balanenig bystein &	
		Oscillating Grid Ratio 8:1 of the second secon	or better	
		_	date cassettes up to 14x17 inch	
45.	Yag Laser	Laser Wave Length:	1064nm	A
		Mode:	Super Gaussion/Q switch	
		Optical Break Down:	2.5mJ or better in air	
		 Pulse Duration: 	<4.5ns	
		Maximum Laser Energy:	Single Pulse, 10mJ	
			Double Pulse, 23mJ	
			Triple Pulse, 32mJ or more	
		Energy Levels:	20 Steps or more	
		Frequency:	Max 2Hz	
		Focus Diameter:	10um	
		Angle of exit aperture:	15° to 18°	
		Aiming Beam:	630nm – 680nm	
		• Focus Shift Variable:	+150um, 0, -150 um.	
		Input Voltage:	220V, 50Hz	
		Magnification:	5,8,12,20,32x through Galilean	
		iviaginification.	changer with 10x eyepiece and	
			tube= 130mm or more	
		• Tube:	Parallel Tube f=130 or more with	
			50-78mm PD adjustment with	
			convergent tube	
		• Eye Pieces:	10X high eyepoint eyepieces with +/- 8D	
		• Clit Adiustment:	Width 0-14mm or more.	
		 Slit Adjustment: Isolation Transformer:	Machine should have isolation	
		• Isolation Transformer:		
		• Stand:	transformer for safe handling. Motorized, Local made	
		Along with following lenses:	MOUNTZEU, LOCAL IIIAUE	
		Thong with following lenses.		

		1 Canculactomy I and (Compatible with Machine)	
		1. Capsulactomy Lens (Compatible with Machine)	
		2. Irredectomy Lens (Compatible with Machine)	
	24 II DD	3. Gonio Lens (Compatible with Machine)	D.
46.	24 Hour BP	The system should have.	В
	Monitoring	1. Solid State light weight	
	machine	2. 1 No's Digital Recorders	
		3. Two Cuffs	
		4. Artifact subtraction	
		5. With USB port / Flash card port	
		Analyzer with Auto analysis Facility.	
		Complete with software.	
		Compatible with PC to get analysis on printer.	
		Branded CPU and Monitor (Model and Make must be mentioned):	
		• Intel Core i5 or better,	
		Processor 3.20GHz	
		• 4GB RAM	
		1TB internal Hard Disk	
		DVD R/W	
		With Keyboard and Mouse	
		LCD Monitor Size: 17 Inch or more	
		Price to be quoted separately for system and device supplied.	
47.	Air Drill with	Modular Hand Piece	В
	Cylinder/Ortho	 Pneumatic hand piece with forward, safe and reverse activated on 	
	pedic	hand piece. Speed and torque variable with different attachment	
	*	gear system. Twist Lock quick change attachment	
	pneumatic drill	Progressive Trigger Action	
	with cylinders.	• Cannulations 4 to 5mm	
		Chuck with Key	
		Attachment ¼ Jacobs Chuck Size ¼ (4 to 6.35mm)	
		• Fully Cannulated to 4 to 5.1mm	
		· · · · · · · · · · · · · · · · · · ·	
		Maximum Speed 900 to 1250 rpm or better Attack was 4.00 years Levels Clarate Size 5/22 (4.0 years)	
		Attachment 4.00 mm Jacob Chuck Size 5/32 (4.0mm) Full Complete Inc. The Complete I	
		Fully Cannulated	
		Quick Coupling Chuck	
		AO Small attachment Stainless Steel	
		• Cannulations 2 to 3.5mm	
		AO Large attachment Stainless Steel	
		• Cannulations 2 to 3.5mm	
		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 Attachment Out to the state of the s	
		• Cannulations.8 to 4 mm diameter	
		Maximum Speed 900 to 12500 rpm or better	<u> </u>

		Die Deiere	
		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 Arc 4degree	
		Saw Blade for Oscillating	
		• St OscilBlade 13.5 x 64 x.6mm, Box of 5	
		• St OscilBlade 71mm x 19.5mm x1.2, Box of 5	
		• St OscilBlade 71mm x 33mm x1.2mm, Box of 5	
		• St OscilBlade 71mm x 19.5mm x 8mm, Box of 5	
		• Leg Bone Osc Blade 12.5x73.8 x 63,1.06mm, Box of 5	
		• St OscilBlade 19.5mm x 86mm x 0.8mm, Box of 5	
		• St OscilBlade 8.5mm x 38mm x 0.4mm, Box of 5	
		• St OscilBlade 25.4 x 90 x 1.27mm sterile, Box of 5	
		• Leg Bone Osc Blade 9.5 x 30 x 0.64, 0.84mm, Box of 5	
		• Universal House,10"	
		Nitrogen Regulator Single Connection	
		Pressure Sentinel I/M Reamers for Hand and Power	
		Can be operated at forward and reverse mode.	
		• Size 6mm to19mm	
		Individual complete reversible with tip and solid shaft	
		T-handle for hand reaming	
		Sterilization container	
		Complete with Air hose connector, cylinder (Full Size) and	
		pressure regulator.	
48.	Arterial Blood	Microprocessor based system.	
	Gas Analyzer	Control panel with easy setting and monitoring	
	with UPS	• 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/l 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	

	Г		 _
		• 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 reagent for immediate start up and for 500 tests as	
		recommended by manufacturer	
		UPS:	
		 Branded and compatible UPS for at least 30 minutes backup. 	
		• Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz.	
49.	Autoclave	 Minimum 8 or more sterilization cycles (Vacuumization, 	В
	Automatic 100	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as	
	Liters	well as unwrapped instruments, (b) flash sterilization, open,	
		packed.	
		• 5 inch or more display.	
		 Single door, high pressure, high vacuum autoclave for sterilizing 	
		hospital, materials.	
		 The closing, locking, and opening of the door should be 	
		automatic having motorized button-controlled door without any	
		lever.	
		With Printer	
		Electrically operated with inbuilt electric steam generator	
		 System should be operated with a high vacuum pump. 	
		• Chamber should be made of stainless steel or better material.	
		Water level indicator	
		Internal Chamber Capacity: 100 liters or more	
		• Sterilization Temperature Range: 121°C to 134°C or more	
		Maximum Chamber pressure: 2 bar or more	
		 Chamber Temperature and pressure gauges/display 	
		Cycles run countdown function.	
		Autoclave should be properly equipped with door safety locks &	
		safety valves for chamber.	
		With integral alarm system when temperature set-points are	
		exceeded or fallen below.	
		With Pressure safety valve, over-temperature limiter, over	
		pressure limiter	
		 Low water protection with audio visual indicator 	

50.	Autoclave	 Autoclave should execute Vacuum test, Bowie & Dick test or more. Should be supplied with compatible plant, with imported parts. Accessories: Basket 02 Nos Trays 10 Nos 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. Minimum 8 or more sterilization cycles (Vacuumization, Heating Sterilization Exhaust and Drying). For (a) wrapped as 	В
	Automatic 150 Liters	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed. • 5 inch or more display. • Single door, high pressure, high vacuum autoclave for sterilizing hospital, materials. • The closing, locking and opening of the door should be automatic having motorized button-controlled door, without any lever. • With Printer • Electrically operated with inbuilt electric steam generator • System should be operated with a high vacuum pump. • Chamber should be made of stainless steel or better material. • Water level indicator • Internal Chamber Capacity: 150 liters or more • Sterilization Temperature Range: 121°C to 134°C or more • Maximum Chamber pressure: 2 bar or more • Chamber Temperature and pressure gauges/display • Cycles run countdown function. • Autoclave should be properly equipped with door safety locks & safety valves for chamber. • With integral alarm system when temperature set-points are exceeded or fallen below. • With Pressure safety valve, over-temperature limiter, over pressure limiter • Low water protection with audio visual indicator • Autoclave should execute Vacuum test, Bowie & Dick test or more. • Should be supplied with compatible RO plant, with imported parts. • Accessories: Basket 02 Nos Trays 10 Nos 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.	
51.	Autoclave Automatic 200 Liters	Minimum 8 or more sterilization cycles (Vacuumization, Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed.	В

		 5 inch or more display. Single door, high pressure, high vacuum autoclave for sterilizing hospital, materials. 	
		 The closing, locking and opening of the door should be automatic having motorized button-controlled door, without any lever. With Printer 	
		Electrically operated with inbuilt electric steam generator	
		System should be operated with a high vacuum pump.	
		Chamber should be made of stainless steel or better material.	
		Water level indicator	
		 Internal Chamber Capacity: 200 liters or more 	
		• Sterilization Temperature Range: 121°C to 134°C or more	
		Maximum Chamber pressure: 2 bars or more	
		 Chamber Temperature and pressure gauges/display 	
		Cycles run countdown function.	
		 Autoclave should be properly equipped with door safety locks & safety valves for chamber. 	
		With integral alarm system when temperature set-points are exceeded or fallen below.	
		With Pressure safety valve, over-temperature limiter, over pressure limiter	
		Low water protection with audio visual indicator	
		Autoclave should execute Vacuum test, Bowie & Dick test or	
		More.	
		 Should be supplied with compatible RO plant of, with imported parts. 	
		• Accessories:	
		Basket 02 Nos	
		Trays 10 Nos	
		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.	
52.	Autoclave	Minimum 8 or more sterilization cycles (Vacuumization,	В
	Automatic 100	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as	
	Liters Sliding	well as unwrapped instruments, (b) flash sterilization, open, packed.	
	door	 Single door, high pressure, high vacuum autoclave for sterilizing 	
		hospital, materials.	
		Having fully automated Sliding door.	
		With Printer	
		Electrically operated with inbuilt electric steam generator	
		System should be operated with a high vacuum pump.	
		 Chamber should be made of stainless steel or better material. 	
		• 5 inches or more touch screen showing working process	
		parameters, easy control and operation.	
		Water level indicator Land Grant 100 No.	
		Internal Chamber Capacity: 100 liters or more Starilization Transportune Paragraph 1218C to 1248C and page 1218C. The start of t	
		• Sterilization Temperature Range: 121°C to 134°C or more	
		Maximum Chamber pressure: 2 bar or more	

	 Chamber Temperature and pressure gauges/display Cycles run countdown function. Autoclave should be properly equipped with door safety locks & safety valves for chamber. With integral alarm system when temperature set-points are exceeded or fallen below. With Pressure safety valve, over-temperature limiter, over pressure limiter Low water protection with audio visual indicator Autoclave should execute Vacuum test, Bowie & Dick test or more. Should be supplied with compatible plant, with imported parts. Accessories: Basket 02 Nos Trays 10 Nos 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. 	
53. Autoclave Automatic 150 Liters Sliding door	 Minimum 8 or more sterilization cycles (Vacuumization, Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed. Single door, high pressure, high vacuum autoclave for sterilizing hospital, materials. Having fully automated Sliding door. With Printer Electrically operated with inbuilt electric steam generator System should be operated with a high vacuum pump. Chamber should be made of stainless steel or better material. 5 inches or more touch screen showing working process parameters, easy control and operation. Water level indicator Internal Chamber Capacity: 150 liters or more Sterilization Temperature Range: 121°C to 134°C or more Maximum Chamber pressure: 2 bar or more Chamber Temperature and pressure gauges/display Cycles run countdown function. Autoclave should be properly equipped with door safety locks & safety valves for chamber. With integral alarm system when temperature set-points are exceeded or fallen below. With Pressure safety valve, over-temperature limiter, over pressure limiter Low water protection with audio visual indicator Autoclave should execute Vacuum test, Bowie & Dick test or more Should be supplied with compatible RO plant, with imported parts. Accessories: 	B

		Basket 02 Nos	
		Trays 10 Nos	
		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.	
54.	Autoclave Automatic 200 Liters Sliding door	 water outlet. Minimum 8 or more sterilization cycles (Vacuumization, Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open, packed. Single door, high pressure, high vacuum autoclave for sterilizing hospital, materials. Having fully automated Sliding door. With Printer Electrically operated with inbuilt electric steam generator System should be operated with a high vacuum pump. Chamber should be made of stainless steel or better material. 5 inches or more touch screen showing working process parameters, easy control and operation. Water level indicator Internal Chamber Capacity: 200 liters or more Sterilization Temperature Range: 121°C to 134°C or more Maximum Chamber pressure: 2 bars or more Chamber Temperature and pressure gauges/display Cycles run countdown function. Autoclave should be properly equipped with door safety locks & safety valves for chamber. With integral alarm system when temperature set-points are exceeded or fallen below. With Pressure safety valve, over-temperature limiter, over pressure limiter Low water protection with audio visual indicator Autoclave should execute Vacuum test, Bowie & Dick test or more Should be supplied with compatible RO plant of, with imported 	В
		parts. • Accessories: Basket 02 Nos Trays 10 Nos All infrastructural work including plumbing and electrical work will have to be done by the supplier. The hospital will only provide space and	
	Automatad	water outlet.	
55.	Automated	System consisting of:	
	Electrolyte	• Electrolyte analyzer for Na, k, Ca, Cl, Li, Ph	
	Machine with	• For whole blood, plasma, serum, urine	
	UPS	 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. UPS: Branded and compatible UPS for at least 30 minutes backup. Input Voltage: 110-260v 50Hz, Output: 220v 50 Hz. 	
56.	Automated	Microprocessor controlled fully automated ESR analyzer with the	В
	ESR Analyzer	following specifications:	
		Operation: Automated / Manual	
		LCD screen	
		Internal thermal printer	
		Easy operator software, Calibration & Controls	
		Results time: 30 seconds or less Paralle / Harm 100 annuals / harman hattan	
		 Result / Hour: 100 samples/hour or better EDTA blood sample volume: 180 µl or less with automated 	
		withdrawal per test and 100 µl or less with manual withdrawal per	
		test.	
		Simple position: 15 or better	
57.	Automatic	Microprocessor controlled.	В
	Blood Bag	Digital display: For speed and time	
	Shaker	Digital speed control 5 to 100 RPM or better This is a second of the second of t	
		• Tilting angle adjustment: 7° to 13°	
		Timer range: 1 min to 99 hours.Min. Blood bags: 2 bags	
58.	Automatic Film	Film: 60 Films per Hour or more	В
	Processor	Minimum Film Size: 4 x 4 inch	
		Maximum Film Size: 14 x 17 inch	
		Electrical Requirements: 220VAC, 50 Hz	
59.	Baby Incubator	Microprocessor controlled.	В
		Incubator to have a large double Plexiglas hood with excellent	
		dual viewing panels mobile on lockable castors.	
		 Temperature range: 34 to 37-degree C. To have an integrated sensor module to collect air and skin 	
		• To have an integrated sensor module to collect air and skin temperatures Spo2, oxygen, humidity and pass this information	
		to the display.	
		• 7 inch or more LCD/TFT screen should be available to display	
		relevant information.	
		• The sensor module to have a visual alarm facility to complement the audible alarm.	
		• The mattress base to be contoured, x-ray translucent.	
		• To be able to tilt ± 12 degrees or more.	
		• Trend data for 48 hours or more.	
		• The hood to have four doors, two on either side'. Openings with	
		4 tubing access ports.The unit to have the temperature, oxygen level and humidity to	
		The unit to have the temperature, oxygen level and number to	

		 preset levels. To have an alarm for all these parameters with a low initial alarm intensity to avoid undue disturbance. Oxygen to be able to be calibrated from 21% to100%, The humidity module to be front loading and to need filling daily. The mattress base tilts control to be knobs on the base. Noise should be ≤ 45dbi. Accessories: Telescopic IV stand. Monitoring shelf, Cylinder holder Ventilator tube support. Spo2 sensor for neonatal 	
60.	Baby Suction Machine	 Performance: suction controlled 0-650mmHg (Adjustable) Capacity: 30l/min or more Controls: On/Off switch Safety: positive pressure restricted With filter. Complete with autoclave able receiver jar 2x2000 ml or more(Autoclavable) Suction tip: 1 No Suction pipe length 2m, with hose. Mobile on four antistatic castors With the over flow safety 	В
61.	Binocular Microscope	 Standard Microscope Consisting of:- 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 ,1.25,FlipTop Light adjustment for condenser Aperture Iris Diaphragm Halogen /LED illumination Eye Piece Lenses:- X10 20mm 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 	В
62.	BIPAP	 Dust cover Device should have CPAP, BILEVEL S, BILEVEL T, B BILEVEL ST modes. 	В

			1
		 Device should have three different user menus – an Information menu, a patient menu for adjusting the comfort functions and a clinical menu for the optimal customization of all the therapy parameters. Once the patient stops breathing the device should automatically switches into the T-mode and provides respiration for the patient in the prescribed safety frequency. The extreme low respiration resistance, the high-power reserves and the automatic compensation for leakages. The device should have Alarm indicators. High maximum pressure 25 hPa. Average noise level should be less than 30dB. With humidifier. Advanced data management with SD card. Simple handling. Easy to replace filter. 	
63.	Blood Bag Tube Sealer	 The system should be heavy duty and be able to seal the blood bag tubing quickly and effectively. Should be simple to handle. System should gently seal the tubing with no hemolysis using radio frequency. Should be capable of making wide seal of 2 mm thickness. The sealing time should not be more than 2 seconds. Sealing trigger should be automatic. Should have indication lamps for Sealing Process. No warm-up time should be required. Should ensure easy separation of tube segments after the sealing. Power input 220-240V/ 50 Hz AC 	В
64.	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/Digital display for temperature and warning / error massages. Temperature range: 2 to 8 ±1 degree C To have seven days chart recorder. Alarm for warning and error massages. USB port with frontal access for data transfer. Minimum Capacity: 120x 450 to 500cc bag or better. With Servo controlled stabilizer. 	В
65.	Centrifuge (Bench Top)	Microprocessor controlled centrifuge machine with the following specifications. • Angle Rotor Maximum Speed 3500rpm or better. • Timing Up To 99 Minute, Continuous.	В

	1	T	
		 Programmable by Keypad; 10 Program storage. 	
		 Digital Display of Program Speed, Timing, Braking. 	
		Lid Safety Interlock.	
		 Angle Rotor, Maximum Capacity 12 X 15ml or better. 	
66.	Cervical and	Traction Unit:	В
	Lumbar	Traction: Static, intermittent, cyclic traction/Harmonic	
	Traction Table	• Traction force 15-900 N/1.5-90kg/ 3.4-202 Lbs	
		User defined Hold, Rest and treatment times.	
		• Traction Period: 1 to 59 minutes with increment of 1 minute.	
		Store up to 10 users defined protocols	
		• Voltage supply: 100-240 v, 50Hz	
		Accessories:	
		With Mobile Traction Stand /inbuilt	
		Fully adjustable	
		 Allows the Traction unit to be used with most tables 	
		With Cervical Traction	
		With Cervical Traction With Lumbar Traction	
		Table (Electrically Operated Table):	
		Compatible with the traction unit/built-in with traction unit Three any acceptant Table.	
		• Three or more section Table.	
		• Easy access foot switch for height adjustment	
		• Size Tabletop: 200 x 70 cm or more	
		Height adjacent 55-87cm or more 1.00	
		• Lifting capacity not less than 150 kg	
	GD + D	Power supply: 120-230v	
67.	CPAP	• The Device should have 3 levels separately for in- and expiration.	В
		The Device should provide a continuous positive pressure. In	
		addition, CPAP mode provides an individual respiration flow	
		proportionable pressure adjustment during the inspiration and the	
		pressure drops during the expiration.	
		The device should have alarm system.	
		• Pressure Range: 4 – 20 hPa (mbar).	
		 Average noise level should be less than 30 dB. 	
		Advanced data management with SD card.	
		Should have stand-by time, turbine running time, therapy time,	
		filter age counters.	
		Simple handling.	
		Easy to replace filter	
68.	CPR Machine	 Unit should be capable to perform continuous compressions. 	В
		 Equipment should be pneumatic type. 	
		 Adjustable chest compressions 100 per minute or more 	
		 Adjustable chest compression depth from 0 to 3.2 inches or better 	
		Modifiable Compressions rate from 50:50 systolic to diastolic ratio	
		(50% compression length).	
69.	CTG Machine	With 7-inch LCD display or more.	В
	1		
		• Fetus heart rate: 50-240 bpm or better	
		 Fetus neart rate: 50-240 bpm or better Manual/auto recording Fetus movement. 	

			1
		 Continuous 3-4 hrs. real time monitoring function, Single, twins monitoring. High resolution built in thermal recorder. Built in communication port, for connecting to the central monitoring system. Voltage AC220V, 50Hz. Output speed: 1 cm/min, 2cm/min, 3 cm/min. Ultrasound Probe: Nominal frequency: 2.0MHz or better Work frequency: 1.0MHz+- 10%. 	
		Compatible with Two Probe (for twins).	
		Complete with all accessories.	
		Built in rechargeable battery backup: 3 hour or better	
70.	Defibrillator	Semi-automatic 200 joules or better biphasic defibrillator with monitor and AED mode.	В
		Synchronized output with ECG.	
		Control of energy charging/ delivering on main panel and paddle.	
		The energy range should be adjustable for Peads and adults up to 200Joules. Classification of the control	
		• Charging Time for full energy will be less than 08 sec.	
		• Screen Size of approx. 5.7 inch or better colored. • Display of Heart Pate: 30 to 300 hpm.	
		 Display of Heart Rate: 30 to 300 bpm ECG through Pads / paddles and 3 Lead ECG patient cable with 	
		arrhythmia detection	
		Built in recorder for printing of full summery on standard paper including waveforms, Frozen Waveforms, Event Summary, Tabular Tranda, User test, and Configuration.	
		Tabular Trends, User test, and Configuration.Alarms for High and low Heart rate, low battery warning.	
		 AC 220V / 50 Hz operated. 	
		 Built-in Rechargeable battery with charger 	
		Auto tester/self-check.	
		External pediatric and adults Paddles, ECG cable with reusable electrodes for adult & Peads.	
		AED facility.	
		AED pads	
		Pacing facility	
71.	Deionizer	Automatic regeneration after manual initiation.Constant monitoring of final water quality.	В
		 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 Conclusion of proton 0.2 and the state of 0.2 and	
		• Conductivity of water 0-3μs/m	
72	Delivery table/	• Flow: 20 to 30 lph • Couch ten mode of 3 sections is a back him and leg sections	В
72.	D&C Table	 Couch top made of 3 sections i.e. back, hip, and leg sections covered with mattress having raxine cover. 	D
		Leg section removable	

		 Up/down movement through hydraulic system. 	
		 Back seat adjustment through handles. 	
		Removable receptacle under the hip area.	
		 Lithotomy poles with tying strips. 	
		Hand grips on both the sides.	
		Mobile on castors.	
73.	Dental Unit with	Comprising of:-	В
	Chair and	Dental Unit Chair mounted fully motorized Electric / Hydraulic	_
	regulator (10	(Electrically operated).	
	KVA)	 Air turbine high speed, 3 spray system branded (model must be 	
	11 (11)	mentioned)	
		,	
		• Air motor (3 in1) slow speed with contra angle attachment branded	
		(model must be mentioned)	
		Triple syringe. Prilt in Sector (and delegate mark to accept in a d)	
		Built-in Scalar (model and make must be mentioned) Built-in Scalar (model and make must be mentioned)	
		Dental Light: Halogen/ LED	
		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;20 L	
		Assistant Unit:-	
		• Cuspidor bowel with flush system (spittoon)	
		Saliva ejector	
		High Power Suction system (Air operated)	
		Triple Syringe	
		Dental Chair:	
		Fully automatic motorized Electric/ Hydraulic chair (Electrically Operated)	
		Operated).	
		4 or more positions, operated on 220V / 50Hz Motorized motion to point / leaven the cost and healt by electrons.	
		Motorized motion to raise / lower the seat and back by electro- bydenylia System	
		hydraulic System.	
		Automatic Back to Zero Position. - Fundamental and Automatic Automatic Provides and A	
		Equipped with safety cut out device	
		Adjustable head rest forward/ backward and up /down movements Print and an	
		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 Bowl's flush automatic and manual. Triple syringe, Saliva ejector High power suction (Air operated) Dentist + Assistant Stool: Touch Panel Control on assistant side Gas operated Seat with Shock absorbing. Adjustable at any height by lever 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. 	
74.	Dental X-ray	 Dental radiographic unit. Current: 3.5 mA intra-oral x-ray system or better. Focal Spot: 0.4 or less Maximum voltage: 70 KV or better. With imported mobile stand from the same manufacturer The Unit shall be mounted on a stand having 360° horizontal rotation. Also, the multiplex arm has a variety of vertical movements. Mobile on castors. Digital dental X-ray sensor, Computer Desktop/ laptop with 17-inch monitors LCD/TFT and DVD/CD writer (optional price quoted separately) Sensor with minimum 3 m cable connects with computer system via USB port. Sensor (adult and child), Fully waterproof, CMOS technology, Pixel size 20 microns or better Active area 20X30 mm or better Software for viewing image have post processing s tools zoom, rotate, contrast adjustment etc. 	В
75.	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. 	В

		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.	
		• Power Supply: 220v, 50 Hz Single Phase.	
76.	Dry Heat	Features:	В
	Sterilizer / Hot	Dust-Free Gravity-Flow convection	
	air oven	For drying, conditioning, Sterilizing and quality control.	
		 Display: Temperature control, timer, alarm. 	
		Automatic on/ off function	
		Over temperature and current protection.	
		<u>.</u>	
		Leakage breaker, fan motor automatically stops when door is	
		opens.	
		• Rapid Heat up in 25 min up to 240°C	
		Digital Timer built-in Controller Solution	
		• Capacity: 55-60Liters	
		• 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 more	
		Electric Supply 220 V, 50Hz	
77.	ECG Machine 12	Instantaneous 12 channel ECG acquisition, and 7" or more LCD	В
	channels	display.	
		ADC:24bits, resolution:1uV/LSB	
		• Inbuilt thermal recorder for printing out 12 channels simultaneously	
		on Z-fold paper and port for external printer capable of A4 page	
		printing.	
		Support the 12-lead ECG analysis program for complete ECG	
		Analysis reports with measurement data table should be provided.	
		Must be able to indicate at least six critical values that require	
		immediate clinical attention.	
		Must have continuous display of patient heart and rate.	
		AC as well battery operated, battery backup time 3 hours or better.	
		Must have integrated pediatric analysis.	
		 Can save up to 200 ECGs in internal memory or more. 	
		 Can save up to 200 ECGs in internal memory of more. Complete with Patient Cable. 	
		Reusable Electrodes Set.	
		ECG Rolls 20 Nos.	
70	ECG Machine 3	Gel 5 liters and Standard Accessories with each unit. O3 showneds ECC Maskins	В
78.		03 channels ECG Machine	В
	channels	Should be portable and lightweight. The Graph of the state o	
		ADC:12bits, resolution:1uV/LSB	
		• Voltage 220 volts, 50hz	
		• Display 3" or more.	

79.	ECT Machine	 Simultaneous 12 leads acquisition Must have continuous display of patient heart and rate Must have integrated pediatric analysis. Support the 12-lead ECG analysis program 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. Printer: High Resolution and in built thermal array printer. Battery Capacity: Must be 4 hours without printing. Can save up to 200 ECGs in internal memory or more Complete with Patient Cable. Reusable Electrodes Set. ECG Rolls 20 Nos. Gel 5 liters and Standard Accessories with each unit. Should have constant current bi-directional square wave brief pulses. Parameters display on LCD. Should have protection against paddle to paddle short circuit or open circuit conditions. Should have stimulus current from 500mA to 800mA or better on either side. Frequency: 20-120 Hz or better Pulse width: 0.3ms-1.5 ms or better Stimulation duration: 0.05- 8 sec Power Range: 0.6 to 205 joules (or better on either side), for 220-ohm patient impedance Should have provision of monitoring EEG before and after treatment. Output should display in joules. Shock deliver to the patients should be print on paper. Thermal Chart Recorder provides the user with a hard copy of the self-test and treatment results automatically. Accessories: EEG, Electrodes Two electrodes for Electroconvulsive therapy having bush button. Earthing Wire 	В
		Conductive GelInstruction Manual	
80.	EEG 32 Channels	 32 channels EEG amplifier A/D resolution: 16-bit or better Sampling rate: 2000Hz or more CMRR: 100dB or more Input noise: 1.5 uv or less Input impedance: 20M ohm or more With high pass and low pass filters Brain mapping software (both selective and the whole data base Real time programmable spectral analysis. Computer Desktop/ laptop (branded) 	В
		CPU Core i 5 Processor: 3.2 GHz. Or better	

			1
		Bit Processing: 32 Bits.	
		• RAM: 4GB.	
		Graphic card latest technology	
		Hard disk 1TB.	
		DVD writer.	
		• LED Monitor: 19 inch or better	
		Key board.	
		Mouse etc.	
		With associated software.	
		Printer: laser printer	
		With Compatible UPS having at least one hour back up for whole	
		system.	
		• Input power 220VAC, 50Hz	
		Accessories Complete with standard accessories including.	
		EEG Cap adjustable Dridge alegative de	
		Bridge electrode	
		Crocodile electrode/ disc electrode	
		• EEG paste	
		Local Trolley (Export quality)	_
81.	Electric	Microprocessor controlled.	В
	Amalgamator	Touch pad controls	
		LED Display	
		 Programmable preset memories 	
		 Spring tensions, molded capsule holder 	
		• Timer 0-30seconds	
		• Cycle speed 4000CPM or above	
		Sealed mix area	
		 Accept salt types of capsules including amalgam and incomer. 	
		Power requirements: 220 volts,50Hz	
82.	Electric cautery	3 different and separate operating functions:	В
	(Dental)	• 1-purecut 2-cut-coag	
	(Delitar)	• 3-pure coag	
		 Maximum safety for the patient 	
		The electrosurgical units supplied complete accessories:	
		Hand piece, 10 electrodes and ground plate autoclavable.	
		 Voltage: 220 V 50. 	
		Voltage. 220 V 30.Power output 30W or better	
83.	Electric Ripple	11 C1500 Y	В
65.		Alternating pressure mattress with support area of 1/20mmX 850mm or more.	ן ט
	mattress	m	
		The material to contain an anti-bacterial agent. To have a rainforced base sheet membrane with removable calls.	
		To have a reinforced base sheet membrane with removable cells and protective cover.	
		and protective cover.	
		Within built compression pumps having equalizing device to provent even inflation.	
		prevent over inflation.	
		Cycle time to be 10 minutes or more With CDP Value (among a paragraphy).	
		With CPR Valve / emergency pressure release.	

		To have a low-pressure indicator.	
		 To have a low-pressure indicator. To be supplied with a case having handles for easy storage. 	
		Weight 150kg or more	
0.4	Electric consider	With five spare cells. Electro avariacle with 400 method with the following functions.	В
84.	Electric surgical	Electro surgical unit 400 watts with the following functions	В
	unit	PURE CUT, PUEND(1) BUEND(2)	
	Diathermy	BLEND(1),BLEND(2),BLEND(3) COACCO AND FORTH TO BE THE PROPERTY OF TH	
		COAG1 (spray), COAG2 (contact) and AUTO BIPOLAR, FOOT SWITCH BIPOLAR OUT OUT OUT OUT OUT OUT OUT OU	
		SWITCH BIPOLAR.	
		Microprocessor controlled.	
		Percentage output digital display shows on front panel.	
		Automatic bipolar output without using footswitch	
		Multi mono polar outlets, two hand control outlets and one	
		Laparoscope outlet.	
		Hand or foot operated. With the description of the second of the s	
		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 Endaggeria mass dynas in unclease.	
		Endoscopic procedures in urology.	
		Adaptive REM Monitoring: With DEM facility:	
		With REM facility Alarma making in coor of nonnalar output disables.	
		Alarm enables in case of nonpolar output disables. Tackwinel Specifications:	
		Technical Specifications: Output Payor	
		• Output Power PURECUT 400W at300Ω	
		$\frac{400 \text{W} \text{ at } 300 \text{Z}}{300 \text{W} \text{ at } 300 \Omega}$	
		BLEND2 250W at300Ω	
		BLEND3 200 Wat300 Ω	
		CONTACT COAG 120Wat 500Ω	
		SPRAYCOAG 70W at 300Ω	
		BIPLAR COAG 80W at 100Ω	
		BIPLAR CUT $80W \text{ at } 100\Omega$.	
		Operating Frequency: 400KHZ±10% or better	
		Input Voltage: 220V, 50Hz	
		Standard Accessories	
		1. Footswitch 2 pedal with cable	
		2. Footswitch 1 pedal with cable	
		3. Disposable Foot switching pencil with cable	
		4. Disposable 2 push button monopolar pencil with cable and electrode	
		5. Reusable Bipolar forceps and Cable asset	
		6. Reusable patient plate with cable for adult	
		7. Set of electrodes (6Pieces) for reusable and disposable handle	
		8. Power cable	
0.5	Electre	9. Locally manufactured trolley	D
85.	Electro	General Design:	В
	Mechanical	• The tabletop should be 100% radiolucent material & X-Ray access.	
	Operation Table	• 5 sections table plate	
		Load capacity should be no less than 200kg	
		The table should be water-proof and anti-static material and can be	
		washed by water directly.	

			1
		• The thickness of the mattress should be 50mm or more	
		• It should have a battery inside the table, which can work 40-80	
		operations and the battery should be standard configuration.	
		 It should have electric longitudinal shift function not less than 	
		200mm towards foot side.	
		The rails and the column of the table should be made of high level	
		of aluminum alloy.	
		• Length of the table: 2000 mm or better	
		• Width of the table with rails: 540 mm or better	
		• The thickness of mattress: 50mm or better	
		Electric Function:	
		• The lowest position: 680 mm or better	
		• The highest position: 1030 mm or better	
		Longitudinal shift: 200 mm or better	
		Lateral Turn left: 15° or better	
		• Lateral Turn right: 15° or better	
		 Trendelenburg position: 25° or better 	
		 Reverse Trendelenburg position: 25° or better 	
		 Reverse Trendelenburg position: 25 of better Back plate up position: 70° or better 	
		• Back plate down position: 40° or better	
		• Flex position: 220° or better	
		• Re-flex position: 110° or better	
		• Head plate up: 30° or better	
		• Head plate down: 45° or better	
		Build-in elevator: 120 mm or better	
		• Leg plate up: 20° or better	
		• Leg plate down: 90° or better	
		• Leg plates spread: 180° or better	
		Battery operated and all positions and angles must be controlled	
		with remote.	
		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 1 Nos	
		• Footrests 2 Nos.	
		• Side supports 2 Nos	
		Note: $\pm 10\%$ of degrees and measurement's will not be considered as	
		deviation.	
86.	Emergency	LED light source	В
	light with	• Portable	
	single reflector	• Light intensity 100,000 lux at 1 meter or better	
	AC/DC	• LED life of 50,000 hours or more	
		Color Correction to 4000degKelvin	
	Or	With intensity light control	
	Examination	Mechanical:	
	light AC/DC		

	1	· · · · · · · · · · · · · · · · · · ·	
		 Multi flex arm with ultimate flexibility of positioning the lamp head. 	
		Electrical Supply:	
		Reversible overload and short circuit protection	
		 Backup power system with rechargeable branded dry battery(s)with 	
		backup time at least 3 hours or better.	
87.	EMG 4	A/D conversion resolution: 14 Bits or better	В
	Channels	• Input Impedance: > 1000M OHM	
		• Sensitivity: 1μV-10mV/Grid or better	
		• Common-mode rejection ratio (CMRR): >=100dB	
		High Cut Filter-frequency: 0.1Hz or better	
		 Low Cut Filter-frequency: 20kHz or better 	
		• Notch Filter 50Hz/60Hz	
		With Junction Box	
		With Trolley	
		With Laser Printer	
		With Compatible UPS having at least one hour back up.	
		Computer Desktop (branded)	
		CPU Core i 5 Processor: 3.2 GHz. Or better	
		• Bit Processing: 32 Bits.	
		• RAM: 4GB.	
		Graphic card latest technology	
		• Hard disk 500 GB.	
		DVD writer.	
		Printer: laser printer.	
		• Genuine anti virus	
		• LED Monitor: 19 inch or better.	
		Key board.Mouse	
		Accessories:	
		 EMG Interface / Junction Box 26G Concentrate Needles 	
		3. Needle Holder 01	
		4. NCS Cable Reusable 01	
		5. Ring Electrode 03	
		6. Surface Electrode 50	
		7. Ground Electrode 01	
88.	ENT	Main Unit	В
	workstation	 Durable steel casing, non-rusting, long lasting 	
	(Examination	Large instrument surface made of stainless steel with dividers and	
	+treatment)	heating system to heat the instruments, laryngeal mirrors and	
		endoscopes.	
		Device to Heat the laryngeal mirrors.	
		Compressed air system continuously adjustable from 0.1 to 4 bars	
		for spray and politzering, spray liquid with autoclavable nozzle for	
		cleaning.	
		Handle for compressed air should be having a regulation valve. Medigation reservoir be made of steinless steel, should be	
		Medication reservoir be made of stainless steel, should be detachable and suitable for all type of medications.	
		detachable and suitable for all type of medications.	

- The system should have variable compressor inletting air through the filter.
- Compressor unit should be completely separate from suction unit.
- Inbuilt motor suction unit with capacity of 35 liters per minute
- Should have a vacuum gauge, bacterial filters, 1.5 liters liquid container and effective device to prevent overflow.
- Suction tube should have automatic on off switch and small ear rinse funnel.
- Warm water rinsing Device with autoclavable stainless steel handle with snap closure system and fine spray regulation valve.
- Separate stainless steel to prevent mineral build up and heat up to 38-degree temp.
- Cold water irrigation through existing water connection
- Automatic liquid container discharge system should be provided.
- Suction tube cleaner with exchangeable re-usable adapter.
- Dispenser for cotton and paper.
- Provision for attachment of microscope.
- Endoscopy center with cold light source with two outlets with 300 LED/XENON/HALOGEN light bulb.
- Head light with fibro-optic cable to be used with above light source for examination
- Head light rest made of stainless steel
- Two warming quivers for rigid endoscope-should be removable for autoclaving and cleaning
- Automatic on/off switch for single light outlet with light barrier
- Power supply 220-240 volts/50 Hz
- Inbuilt/Integrated Mono and Bipolar cautery system with all cables & probes/forceps.

RIGID ENDOSCOPES

- 4mm/ 30 degree nasal endoscope ---- Qty 1
- 2.7mm/ 30 degree nasal endoscope-----Qty 1
- Magnifying 90 degree Laryngoscope with facility to focus manually----Qty1
- Ear telescope 3mm-diameter/ 6cm length/ 0 degree---Qty 1
- All above endoscopes should be autoclavable and should have the facility to couple with HD camera head for record, take images and transmit the same monitor for better visualization.

ENT EXAMINATION MICROSCOPE:

- The ENT examination microscope with integrated, fanless high transmission, high performance LED illumination in the microscope head.
- Integrated, finless high performance white-light-LED Optimized stereo effect by 24 mm stereo basis
- Mechanical support arm for the microscope
- Expandable with scale projection at the image plane with an option of green filter Objective: 250 mm, (fine focusing)
- Objectives with manual fine focusing Visualization:

		TATE M. 1 111 d. C. 11 1 14 TES	
		 ENT Microscope should have the facility to couple with HD camera head for record, take images and transmit the same monitor for better visualization. wide-field eyepiece 16x magnification The ENT microscope should be attached/ mounting with main ENT unit. Display and recording system. High resolving 1/3" CCD camera easily attachable with endoscope and microscope. It should have the facility during examination to rotate, and hold/pause the image Recording of images and videos in HD digital formats. Easily transferable to External hard drives and USB pen drives/storage cards without losing resolution. High light HD-LED monitors 21 inch or better. ENT PATIENT EXAMINATION CHAIR Should be motorized and ergonomically designed examination and treatment chair facilitating the posture of both doctor and patient Heavy base casing All elements of chair should be shaped according to the patient 	
		position.	
		Seat should have motorized lifting device Seat should have height adjustment for shildren	
		 Seat should have height adjustment for children Integrated foot switch for easy adjustment of height 	
		Should have complete rotation 360 degree with locking device	
		Should be comfortably padded and folded back for enabling easy sitting of overweight and handicapped patient Here is a situation of the state	
		Backrest adjustable and can be made to incline 10 degree forward to vertical position and backward completely to a horizontal	
		 position and can be rolled back Movement of armrest and footrest should be synchronized with backrest movement 	
		Power supply:220VAC V, 50H DOCTORS EXAMINATION CHAIR	
		Wide base, should have rolling casters for easy movement	
		Should have back rest	
		Easy height adjustment of hydraulic nature	
89.	Fracture	 Comfortably cushioned seat. General Design 	В
02.	Operation Table	 Stable base construction with four castors for easy movement. 	D
	with Ortho	Manual base brake, lateral tilt and Trendelenburg adjusted by	
	Traction Attachment	hand crank, base cover, side rails, accessories & clamps made of stainless steel.	
	Attacillicit	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 360 degree rotation.	

		With side rails for the insertion of X-Ray cassettes (must equipped with acrylic sheet plates for X-ray radiography). • Length: 190-200 cm or better • Width: 50 cm or better • Height: 75-95 cm or better • Trendelenburg / Reverse Trendelenburg: +20°/-20°each • Lateral Tilt Left/Right: 20°/20°each • Head plate: +40°/-40° Standard Accessories: • Mattress set. Pair of arm rest with quick dis-connectable clamps. • Designed for easy installation and removal. • Adjustable head rest. Pair of shoulder supports. • Lithotomy pole with universal swivel clamps. • Anesthesia frame 1 each • Infusion rod 1 each • Foot rests 2 each • Side supports 2 each • With inbuilt Kidney Elevator Facility. Attachment: • Traction stopper with mattresses. • Castor with break device • Vertical evaluator lock handle. • Traction crank • Reaction foot boot. • The tractor range is 200 mm and elevation range 200 mm. Note: ± 10% of degrees and measurement's will not be considered as deviation.	
90.	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. To be supplied with 1000 strips Separate price must be quoted for strips.	В
91.	Gynae Vacuum Suction Apparatus/vacuu m extractor with trolley	 To be used in fetal vacuum extraction. Neonatal endotracheal amniotic fluid suction. Surgical suction during operation and uterine aspiration for abortion with super suction curettes. 2 Suction Bottles, each 2500cc or better. Vacuum pressure 650mmHg or more Flow capacity: 40lit/min or above. Automatic over flow cutoff. Foot switch. Tray for instruments Rubber tube 2 meter Curettes, large, Medium, and Small Mains input supply: 220 volts, 50Hz 	В
92.	Head Light with Cool Illumination	 White cold light illumination LED with 30000 Lux or better With 5500 Kelvin. Adjustable headband with washable inner padding. 	В

		0 - / - ff: 4 -1 1 4	
		• On / off switch on battery compartment.	
		• With Charger.	
	- TABLES	Backup time 3 hrs or more.	
93.	HFNC	 Should be used for adults and peads 	
		• Paedric Mode:2-25 l/m or better	
		• Adult: 10-60 l/m or better	
		 Oxygen Concentration: 21% to 100% 	
		 Should Have LCD/TFT display 	
		With heated humidifier	
		 Display to monitor humidity setting, flow, Fio2 and f 	aults.
		 Visual and audible alarm for Tube disconnect leaks, t 	
		blockage, hardware faults and audible failure alarm.	
		• Supplied with heated wire patient breathing tube and	nasal
		cannula of different sizes.	1100
		 It should be compatible for use of Tracheostomy pati 	ents
		Accessories:	Sites.
		Disposable heated wire Patient breathing tube having	ci70c ac
			512C5 a5
		small, medium and large	
		Disposable Nasal cannula having sizes as small, med	ium and
		large	
		Local made trolley	
94.	Humidifier	Adjustable exit steam Moisture sensors for adjusting	required B
		moisture.	1
		Transparent water container. Easy to clean thermo ste	eam
		maker parts.	
		 Applicable to create desirable atmosphere for childre 	n.
		Built-in circuit breaker to be operated in time of dry to	
		Must have cool body all through the operation.	
		Should have thermo steamer element with Teflon resist	ant
		coating.	
		• Easy cleaning.	
95.	Hydraulic	General Design:	В
,,,,	Operation		
	-	Stable base construction with four castors for easy mov Manual base basis a lateral tilt and Transdalar base adjust	
	Table	Manual base brake, lateral tilt and Trendelenburg adjust hand grank base Cover side rails accessories & clarateral tilt and trendelenburg adjusting the second state.	
		hand crank, base Cover, side rails, accessories & clamp of stainless steel.	is made
		Tabletop:	
		-	,
		Divided into 5 sections including head plate, back plate	
		plate and split leg plates. Table top elevation controlled	
		hydraulic system, with sliding table top 30 cm or more	
		unrestricted image intensifier access, with side rails for	
		insertion of X-Ray cassettes (table top made of acrylic	sneet
		plates for X-ray radiography).	44:-
		• Full set of hydraulic control system for hydraulic lock p	protection
		• Size: 2000x500x750 mm ± 10 %	
		• Trendelenburg/ Reverse Trendelenburg 25°/25°each	
		 Lateral Tilt Left/Right +15°/+15°ea Head plate up/down +40° / -40° 	ich

		Standard Accessories:	
		Mattress set, Pair of arm rest with quick dis-connectable clamps.	
		 Adjustable head rest. Pair of shoulder supports. 	
		 Adjustable fleat fest. I all of shoulder supports. Lithotomy pole with universal swivel clamps. 	
		 Anesthesia frame 1 Nos 	
		• Infusion rod 1Nos	
		• Foot rests 2 Nos.	
		• Side supports 2 Nos	
	T 1'	With inbuilt Kidney Elevator Facility	D.
96.	Indirect	Brightness for difficult examinations	В
	Ophthalmoscope	Halogen light	
		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 20 D indirect lens	
97.	Infant Warmers	Mobile infant warmer with integrated baby bassinet unit that	В
	(Radiant	accommodates use of resuscitation equipment for intensive care of	
	Warmer)	neonate.	
	,	Technical Specification: -	
		-	
		 Infant warmer system to provide controlled source of radiant heat for infant. 	
		Temperature Control (Skin). Temperature Adjustments.	
		• Temperature Adjustment:	
		• Skin Temperature adjustment: 34°c ~ 37°c,	
		 Microprocessor controlled skin servo mode operation with digital display. 	
		Digital display for Infant Temperature	
		Audible and visual alarms and automatic switch off if	
		temperature reaches at 38°c.	
		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 having Trendelenburg and reverse	
		Trendelenburg position.	
		Accessible from all sides with acrylic collapsible side panels	
		Trolley with 2 Lockable castors or more.	
		Power Requirement: 220~V, 50Hz	
		Accessories	
		Complete infant resuscitation package with mounting bracket (resuscitation module, flow meter, infant suction unit, suction	
		regulator, suction bottle/400ml, positive pressure resuscitation,	
		air hose, and oxygen cylinder medium size).	
		 Skin probe reusable. 	
		 Skill probe reusable. Infant face masks (Large, Medium, Small) 	
98.	Infra-Red	Floor Stand Type	В
70.	mma-ixcu	Tion stand Type	ע

	D 11 : T	D 11	
	Radiator Large	• Radiators: 3 X 150 W or better	
		Automatic cut off timer	
		• Timer adjustment: upto 15 minutes	
		 Mounted on 4 or more lockable casters. 	
		Adjustable height	
99.	Infra-Red	Floor Stand Type	В
	Radiator	• Radiators: 1 X 150 W or better	
	Small	Automatic cut off timer	
		• Timer adjustment: up to 15 minutes	
		 Mounted on 4 or more lockable casters. 	
		Adjustable height	
100.	Infusion pump	 Infusion pump with visible handle, with IV Pole. 	В
		Power requirements: AC: 100-240V; 50Hz	
		Modes: weight, Volume, and flow rates	
		• Delivery / Flow rate: 0.1-999.9ml/h	
		Volume range 1-9999	
		Occlusion Limit low, Normal, High	
		• Facility with keep vein open rate.	
		 Anti-Bolus function, Titration function should be available. 	
		Volume infused display and Dynamic cannula pressure	
		displayed on screen.	
		Full alarm system.	
		Air in line detection.	
		Occlusion detection capability.	
		 Vertical stand mobile type 	
		Builtin battery backup: 2 hours or better	
		Water-Proof Grade : IP34 or Equivalent	
		Water-1 foot Grade: If 54 of Equivalent With all standard accessories.	
101.	Laboratory	Microprocessor controlled Laboratory Incubator with the following	В
101.	Incubator	specifications.	D
	incubator	1	
		Stainless steel chamber with adjustable shelves and a tough ended	
		glass inner viewing door. The outer cabinet is to be rust resistant.	
		Temperature control by digital display from 0-0.99.9 h or	
		continuous	
		• Alarm system for high and low temperature, Door close / open.	
		With over temperature safety cutout to be set by the user.	
		Fitted with circulation fan.	
		• Temperature : Range: At least 5°C above ambient to+60°C	
		• Control (Fan): ±0.1°C at+37°C	
		• Variation (Fan): ±0.25°C at+37°C	
		Chamber Capacity: 80-100Liters	
		• Shelves: 2 or more	
102.	Microtome	Fully Automatic Microtome Machines with the following	В
	Machines	specifications:	
		Applications" Sectioning of Paraffin embedded specimen for	
		11 0	
		routine and research histology.	
		routine and research histology.Section thickness range: 0.5-60 um or better on either side	

		C : D : : 20	
		• Specimen Retraction: 20 um	
		• Trimming Thickness: 1um to 600 um	
		According to manufacture design Provided to the latest and the latest area of the latest and the latest area of the latest area. The latest area of the latest area. The latest area of the latest area. The latest area of the latest area of the latest area of the latest area of the latest area. The latest area of the latest area of the latest area of the latest area of the latest area. The latest area of the latest area. The latest area of the latest area of the latest area of the latest area of the latest area. The latest area of the latest area. The latest area of the latest area of the latest area of the latest area of the latest area. The latest area of the latest area of the latest area of the latest area of the latest area. The latest area of the late	
		Displacement of blade holder Base: Vertical and horizontal	
		direction	
		Vertical Cutting stroke length: 70mm or more Signature 1. Representation 1. Re	
	2.51	Electrical Requirement: AC 220V / 50Hz	
103.	Microvent	Unit should be hand held type & pneumatic oxygen powered with	
		no electric power required.	
		Should have option for automatic time cycled and manual trigger	
		selection.	
		• Unit should be capable to cater adults and children (10Kg or less)	
		Should have capability of auto air mixing 100% or 50% with no	
		external air supply.	
		Should have Patient assist valve.	
		• Automatic flow rate (L/min) 36 to 12 or better	
		Automatic tidal volume 150ml to 1000 ml	
		Automatic I:E ratio 1:2 All and a second and a second are a second and a second and a second are a seco	
		Adjustable automatic frequency 10 to 25bpm	
		Manual flow rate 40 lpm	
		Should have pressure relief valve with audible warning limits.	
		• Should have expiratory resistance 0.5 kPa or better.	
		• Patient assist trigger pressure -0.5 kPa or better	
		Unit should be capable to operate on central gas supply system &	
		oxygen cylinder through compatible probe.	
		Accessories:	
		Fabric Case.	
		Oxygen therapy mask for adult & children.	
		Resuscitation face mask made of silicon for adult & children.	
		Four oro-pharyngeal airways.	
		Flexible ET tube mount.	_
104.	Mini Autoclave	Microprocessor controlled.	В
	for dental	Mini autoclave Class B type	
		Capacity 18 liters or more (Bench top)	
		Digital display	
		Automatic functioning	
		Pre and post fractionated vacuum.	
		• Sterilization temperature:121°c to134°c	
		With demineralizer (model and make must be mentioned)	
105.	Nebulizer	 Maximum compressor pressure 2.5-3.0 bar 	В
		Nebulization rate 0.3 ml / min	
		• Compressor air flow 10lit / min or better	
		• Particle size(mmad) 0.5m to 5m	
		Noise level 55 db	
		• Electrical requirement 220v/ 50Hz	
		Nebulizer assembly and Accessories :	
		• Tubing	
		Nebulizer cup	
1	1		

	<u> </u>	1	
		Nebulizers insert.	
		Nebulizer cap	
		An adult mask	
		Mouth piece	
		• extra filters	
106.	Ophthalmoscope	Branded	В
		• 3.5V Ophthalmoscope	
		Rechargeable Handle	
		Carrying Case	
		Battery operated	
107.	Ophthalmoscope	Branded ophthalmoscope	В
	+ Retinoscope	 Designed to ensure Ultimate control. 	_
	Rechargeable	 Lenses graticules and filters can all be easily changeable. 	
	Rechargeable	Xenon illumination	
		Positive Action wheel.	
		 Comprehensive Lens Range +29D to -30D. 	
		=	
		Professional Retinoscope suitable for Streak or Spot. Interplace goals a soft brown root.	
		Interchangeable soft brow rest. Final illuminator With Handler Court halls Destruction and	
100	0.1 11 5 11	• Focal illuminator, With Handles. Spare bulbs. Protective case.	D
108.	Orthopedic Drill	ORTHOPEDIC DRILL SYSTEM	В
	Battery operated	 Drill and reaming handpiece with single trigger operating. Adjustable speed range: 0-250RPM or better (Reaming Mode) 0-1000 rpm or better (Drill Mode) 	
		Oscillating saw hand piece with single trigger operating	
		• Oscillating frequency: 0-16000 rpm or better (position 1) 0-1000 rpm or better (position 2)	
		Battery operated.	
		Indicator for charging	
		Accessories:	
		Complete with all standard accessories including.	
		 3 different size blades for oscillation. 	
		Attachment for all hand pieces (K-wire attachment, Drill	
		attachment, Reamer attachment large)	
		 Specialized sterilization container for drill and autoclavable basket. 	
		Specialized stermization container for drift and autoclavable basket. 2 batteries	
		• Charger	
109.	Oxygen	Micro Processor controlled.	В
107.	Concentrator		Б
	Concentrator	 Oxygen Flow Range: 0 to 10 litter per Minute Noise level (<45dbA). 	
		• Noise level (<45dbA).	
		· · · · · · · · · · · · · · · · · · ·	
		With filter.	
		 With filter. With OPI (oxygen purity indicator) & Alarm at very low oxygen 	
		 With filter. With OPI (oxygen purity indicator) & Alarm at very low oxygen level. 	
		 With filter. With OPI (oxygen purity indicator) & Alarm at very low oxygen 	

			1
		Oxygen Percentage level:	
		1-10 Ltr per Minute 95%±3% or better	
		With Humidifier	
		With Connecting Pipe	
		Mobile on 04 Castors	
110.	Paraffin Wax	• Capacity 15 liters or more	В
	Bath for Foot	Thermostatically controlled.	
		Double walled	
		Material Stainless steel	
		Temperature Control 0- 90 degree C	
		Immersion Heater 2000 watt	
		• with insulated boots: 02 Pairs	
		• Input Supply 230 V AC, 50 Hz	
		Paraffin Embedding Wax Bath	
111.	Paraffin Wax	Capacity 15 liters or more	В
	Bath for Hand	Thermostatically controlled.	
		Double walled	
		Material Stainless steel	
		• Temperature Control 0- 90 degree C	
		• Immersion Heater 2000 watt	
		• with insulated mits: 02 Pairs	
		• Input Supply 230 V AC, 50 Hz	
		Paraffin Embedding Wax Bat	
112.	PH Meter	PH:	В
		• PH Range Accuracy: .0 ~ 14	
		• Resolution: 0.01	
		• Calibration: User selectable 1 or 2 points.	
		mV:	
		• Range: ±1900mv.	
		• Resolution: 0.01mV	
		• Accuracy: ±1mV	
		Temperature:	
		• Temperature range: $-5 \sim 100^{\circ} \text{c} \pm 0.4^{\circ} \text{c}$.	
		• Resolution: 0.1°c.	
		• Accuracy: $\pm 0.5^{\circ}$ c	
		Display:	
		• Display: LED / LCD.	
		• Power: DC Power Adaptor.	
113.	Phototherapy	Flexible positioning	В
	Unit	LED type	
		 Intensity: 35uW/cm2/nm at 40cm or better 	
		Display: LCD Digit Display	
		 Irradiation timer: 0 to 99 hr. or better 	
		 Inclination angle: Freely adjustable from horizontal to vertical 	
		 Placement: Directly on the incubator /beds. 	
		 Power requirements: 220 V, 50Hz; 	
		 Accessories: Eye Cover (100 Pieces) 	
114.	Point of care	Microprocessor control portable	В
11		interoprocessor control portuois	

	T (DOGT)		1
	Testing (POCT)	• Test Coagulation, ABGs, Electrolytes, Hemoglobin, Hct,	
	analyzer	Glucose, creatinine.	
		Easy to operate.	
		Auto calibration available	
		 Sample type: whole blood, serum, plasma, and urine 	
		• Sample volume Less than 80μL	
		Patient data storage capacity not less than 1000 or better	
		• Operating temperature 5 to 40C or better	
		Capable to show result one screen and built-in thermal printer	
		available to print result on paper.	
		• Input power 220VAC 50Hz	
115.	POP cutter /	• Speed: 0-11000 rpm	В
110.	Plaster Cutting	• Current: 10 Amp	
		• Frequency: 50 Hz	
	Saw	• Blade Size: 7.5 mm to 2.5 mm	
	D . 11 1	• Voltage: 220 Volt	D
116.	Portable lamps	Operating Light with: -	В
	AC/DC or	Single dome	
	Emergency light	On Balance mobile Stand	
	AC/DC	• LED light source	
		• Light intensity Max 100,000 lux or better	
		• LED life of 50,000 hours or more	
		Color Correction to 4350 deg Kelvin	
		With 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 03 hours	
117.	Pulse Oximeter	1	В
11/.	1 uise Oxillietei	Hand held pulse oximeter. Songers: Finger alin with probe for pagnetal. Pages & adult.	ע
		• Sensors: Finger clip with probe for neonatal, Paeds & adult.	
		• Range: O2 saturation 0 -100%.	
		• Pulse rate 20 – 250 bpm or more.	
		• Display: Pulse waveform, SPO2 and pulse rate and O2	
		Saturation.	
		• Resolution: O2 saturation 1%	
		• Accuracy: O2 saturation 80-100% ±2%	
		Built in rechargeable battery: backup 5 hours or better.	
118.	Pure Tone	 Large backlight graphical LCD display 	В
	Audiometer	• 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	
		• Speech test.	
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119.	Resuscitation Trolley / ICU Trolley / CPR Trolley	 Inputs: CD/Tape, stereo live speech microphone, external masking, patient microphone, patient response switch. Air conduction range: 60db to 90dBHL or better on either side, include headphone. Bone conduction range: 60db to 70/75 db or better. Speech: 60db to 100dbHL. Masking: Free as well as synchronized masking High tone audiometry for AC 125 hz - 8000 Hz High tone audiometry for BC 250 hz - 8000 Hz High tone audiometry for BC 250 hz - 8000 Hz Selectable range of Test frequencies. Accessories: Air conduction head set. Bone conduction head set Patient response switch Micro phone. Overall dimension 2.5'(L) x 2'(W)x3' H or better Electro-galvanized steel sheet structure / aluminum alloy/ ABS, Epoxy powdered coated, finish rounded, edges washable and can bed be infected. Push handles one end. Height adjustable IV Holder rod. Shelf for defibrillator / ECG can be rotatable with locking facility. Three or more drawers. Detachable waste bin with bag holder. CPR board. Antistatic no skidded casters with 2 brakes. Oxygen bottle support with fastening belts. Catheter tubes holder. Stainless steel / plastic bracket on back side for mounting oxygen cylinder/bracket for mounting oxygen cylinder. 02 Nos Electrical universal power outlet and rollup power supply cable. Accessories Oxygen Regulator Oxygen Regulator Oxygen Resuscitator Set reusable and autoclavable comprising of. 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 2 liter or more Laryngoscope with 3 blades Magill Forceps Endotracheal Tubes set of 12 tubes. Pen torch 2 qty Artery forceps 2 	В
		9. Artery forceps 2	
		10. Dressing scissors 2	
120.	Shadow less	• Shadow less light ceiling type, including single arm, 360 degree	В
120.		rotary stable and suspended.	ט
	lamp (Ceiling	rotary stable and suspended.	

	4	TTI 1' 1 (1 111 1 ' 1 (1' (11 1 1 1 1 1	
	type)	The light should be height adjustable and focused according to	
	or Ceiling OT	the size of the patients surgical area.	
	light for minor	Dual Dome	
	OT or Ceiling	Intensity control available.	
	OT light for	LED light source	
	post- mortem	• Light intensity: Maximum 160,000 Lux + 160,000 or better at 1	
	post mortem	meter distance	
		• LED life of 50,000 hours or better	
		Color Correction to 4000degKelvin or better	
		• Input power 220VAC, 50 Hz	
		With sterilized handle for movement.	
		Backup power system with branded dry battery (s), with backup	
		time at least 03 hours or more.	
		Complete with Installation	
121.	Shoe Covering	Case material: stainless steel and ABS plastic	
	machine	Stainless steel handlebar for extra stability	
		Powder-coated metallic colored handlebars	
		Weight: 40 lbs or better.	
		Refills: holds up to 220 shoe covers (two bundles/cartridges)	
		Dimensions: 28" length x 13" width x 35" hight or better	
		• (with handlebar)	
		` '	
100	Sonic Aid	Power source: no electricity needed Fig. 1. B. 1. C. 1. B. 1. C. 1. B. 1. M. 1	D
122.		Fetal Heart Beat / Sound Detection & Rate Monitoring.	В
	Machine/Fetus	Heart rate digitally displayed,	
	Heart Detector/	Heart beat audible through the built-in speaker (earphone).	
	Fetoscope	Ultrasonic frequency/output: 2 MHz,10mW/cm2	
		Audible output: 0.6W (Speaker output: Max.20W)	
		Heart rate detection range: 50-240bpm	
		Power requirements: Rechargeable battery12V with AC	
		recharging unit.	
123.	Spirometer/	Examination of pulmonary system and to measure & display lung function	В
	Pulmonary	parameters and must meet ATS/ERS standards	
	function unit	It should be able to measure /do the following.	
		Spirometer & Flow Volume parameter	
		Maximum Ventilation Volume	
		Pre & post Broncho – dilator comparison	
		Lung Volumes & Sub – divisions	
		 Feasibility of real time Flow/volume loop and volume/time curve 	
		with Pre/Post comparison.	
		Broncho Provocation Test.	
		Should incorporate Electronic Barometer & temperature Overlaving of pravious test curves for comparison	
		Overlaying of previous test curves for comparison. The unit have LCD/TET agreen to display made into prevent.	
		The unit have LCD/TFT screen to display real time relevant information and also have a thormal printer.	
		information and also have a thermal printer.	
		Rechargeable battery backup time at least 2 hours Compared to the comp	
		• Flow meter Bi-directional digital flow sensor (flow: up to 15L/s or	
		more, accuracy: within 3%)	
i	I	• Dynamic Resistance : less than 1 cmH2O /L/Sec.	

	1		
		 Parameters should be measured with highest accuracy & reproducibility and accuracy should be least, if at all affected with High surrounding Temperature and humidity levels. Pulmonary Filters (100 Nos), Disposable Mouthpieces (500 Nos) Facility to interface with computer desktop / Laptop to transfer data for analysis. Computer Desktop/ laptop (branded) CPU Core i 5 Processor: 3.2 GHz. Or better Bit Processing: 32 Bits. RAM: 4GB. Graphic card latest technology Hard disk 1TB. DVD writer. LED Monitor: 19 inch or better Key board. Mouse etc. With associated software. Printer: laser printer Input power 220VAC, 50Hz 	
124.	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 Accessories Complete with standard accessories includes:0.4-micron filter box of 200's 	В
125.	Suction machine Heavy Duty/ Electric suction Machine	 Mobile suction pump Oil-Less 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 40 l/min or better Explosion proof footswitch. Capacity of two graduated suction bottle: 3000cceach or more (Autoclavable) 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 	В
126.	Syringe Destroyer	 Surplus liquid in the needle should vaporize to avoid pollution. No spark should eject during operation Should work with low electric voltage to melt the needle instantly and destroy syringe body. 	

		 Working time should last for not more than 3 seconds. 	
		 Should work with built-in rechargeable battery. 	
		 Should destroy not less than 200 pieces of 20ml syringe. 	
		• Should destroy needle size from 18G to 34G.	
		 Working noise level should be ≤50 db. 	
		• Should have superheating protection temperature 85°C	
127.	Syringe pump	Power requirements: AC: 100-240V; 50Hz	В
127.	Symme pump	• Syringe size: 5ml, 10ml, 20ml, 30ml, 50/60ml	
		• Increment: 0.01 ml/h	
		M 1 37 1 37 1 1 1 1	
		•	
		• Delivery / Flow rate: 0.1-999.9ml/h	
		• Volume range 1-9999ml	
		Occlusion Pressure: Adjustable	
		Full alarm system	
		 Occlusion detection capability. 	
		Built-in battery backup: 2 hours or better	
		 Water-Proof Grade: IPX4 or Equivalent 	
128.	Therapeutic	Microprocessor controlled Therapeutic Ultrasound with the following	В
	Ultrasound	specifications:	
		• Operating voltage: 100-240 V ± 10% (50 Hz)	
		Ultrasound frequencies: 1 and 3 MHz	
		Mode: Continuous and pulsed	
		Pulse frequency: 1Hz - 100 Hz	
		 Duty cycle: 10, 25, 50, 75% 	
		• Intensity:0-3 W/cm2,	
		Pulsed Number of US connections 2 HS	
		• US applicator large 5 cm2	
		• US applicator small up to 1.00 cm	
		Standard Accessories:	
		Multi frequency treatment	
		Holder treatment head	
129.	Three Channel	3 Channel ECG holter system	В
	Holter monitor	 Recorder should be cable-free / cable. 	
		Should have rechargeable battery	
		Water resistant	
		Should have Recording LED indicator	
		ADC resolution: 24 bits	
		• Sampling rate: 250 samples/sec	
		 Integrated filters and signal processing Frequency bandwith: 	
		0.1(0.05)Hz - 75Hz	
		• input voltage range: < 40mV	
		 Interfaces for data analysis and signal control (USB) 	
		• Storage capacity: up to 60 days	
		ECG Holter analysis software For sold for a software to also be sold by a black a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a black as a support size of the sold by a support si	
		• For cable free software tools should be able to support signal	
		viewer for Android/tablet PCs	
		Software Compatible PC System with UPS & printer.	
		 With standard accessories. 	

130.	Transcutaneous	Channel : Dual isolated between channels	В
130.	Electrical	LED display	Б
	Nerve	 Pulse rate: 2 – 150 Hz 1Hz / Stp 	
		• Pulse width: 30-300 micro sec 10 micro sec / Stp	
	Stimulators	ON time 2-90 seconds 1 sec /Stp ON time 2-90 seconds 1 sec /Stp	
	(Tens)/Electric	• OFF time 0-90 seconds 1 sec / Stp	
	Stimulator	_	
		 Mode 5 TENS mode : B(Burst), N(Normal), M(Modulation), SD1,SD2 	
		• 2 EMS modes S(Synchronous), A(Alternate)	
		Waveform: Asymmetrical, Rectangular, Biphasic pulse	
		• Current channels: 4, independent, fully galvanically separated	
		• Current forms: 16 current forms-30 varieties Programmable	
		positions: 200 or more	
		 Pre-programmed protocols: 50 	
		STANDARD ACCESSORIES	
		• 2 x Strap 250x3 cm / 2x adhesive and conductive electrode	
		• 2 x Strap 100x3 cm/2x adhesive and conductive electrode	
		• 4 x Rubber electrodes 6x8 cm, 2 mm female, set of 2.	
		• 2 x Moist pads for rubber electrode 6x8 cm, set of 4.	
		• 4 x Patient cable 2-core & 2 mm male plug - black, with colored	
		clips	
131.	Ultra Violet	Floor Stand Type	В
	Lamp	• Radiators: 3 X 350 W or better	
	Large	Automatic cut off timer	
	C	Timer adjustment: up to 15 minutes	
		Mounted on 04 or more lockable casters	
132.	Ultra Violet	Floor Stand Type	В
	Lamp	Parabolic reflector	
	Small	• Radiators: 1 X 350 W or better	
		Automatic cut off timer	
		Timer adjustment: up to 15 minutes	
		Mounted on 04 or more lockable casters	
133.	Ultrasonic	Oscillation frequency 1.5MHz or better	В
	Nebulizer	Nebulization rate 0.3 ml / min	
		Nebulizer cup capacity 30cc or better	
		• Particle size(mmad) 0.5m to 6m	
		Electrical requirement 220v/ 50Hz	
		Nebulizer assembly with all Accessories including Child mask,	
		Adult mask	
134.	Urine meter	Cold light source,	В
		 Auto safe data in case of power failure. 	
		 Ascorbic acid, bilirubin, blood, glucose, ketene, leucocytes, nitrite 	
		PH.	
		• Throughout normal mode. 60 sample / hour.	
		 Continuous mode. 120 sample/hours or better 	
		Continuous mode. 120 sample/hours or betterDisplay: 5" large LCD or better.	
		•	

135.	Vein Detector	Handheld portable Vein finder / showing system.	В
		• Positive projection distance: 25cm~35cm or better.	-
		Projection color control / adjustment available.	
		Projection size control / adjustment available.	
		Brightness control / adjustment available.	
		Rechargeable built-in battery.	
		Tabletop stand / Floor stand from the same manufacture should be	
		providing with the machine.	
136.	Vessel Sealing	Advance Bipolar seal and cut technology can be used in general	
	System	surgery, Gyne, urology and thoracic surgery.	
		Uniform tissue compression distal to proximal for better sealing	
		Tip first closer for retain tissues within the jaws for improved	
		compression.	
		80 Degree articulating jaw to allow simplified navigation in	
		challenging anatomy.	
		Including items:-	
		Generator	
		5mm Instrument with for Laparoscopy qty 2	
		5mm Maryland instrument without articulating jaw for	
		Laparoscopy qty 2	
		5mm instrument for open surgery qty 2	
		Foot switch	
		Power cord	
		Imported Trolley with wire basket	
137.	Vortex mixer	Touch operation or continuous mode with variable speed control 0-	В
		2600 rpm.	
		Can be used for various mixing application with optional adapter.	
		With fixed or adjustable speed.	
		 Voltage Ranges 100-240V, Frequency Required 50/60Hz and Power 60W. 	
		Mixing motion orbital and orbital Diameter 3.8-4mm.	
		Shaded Pole motor with rating input 57-58W and Rating Output	
		10W.	
		 Speed Display scale must be available and weight 3-4kg. 	
		• Environment Temperature Ranges 5-45°C and permissible relative	
		humidity =80%.	
138.	Water Bath	Microprocessor controlled.	В
		Capacity: 20liters or more	
		Digital display for temperature controlled.	
		Temperature Range: Ambient to 99 °C	
		• Accuracy: +-0.5 °C	
	1	• Uniformity: +- 2.0°C	
		Material: Bath: seamless stainless steel with lid	
		 Material: Bath: seamless stainless steel with lid Case power coated steal 	
		 Material: Bath: seamless stainless steel with lid Case power coated steal Safety: over temperature cut-off, Alarm 	
	A: 040 GC	 Material: Bath: seamless stainless steel with lid Case power coated steal Safety: over temperature cut-off, Alarm Electric supply: 220v,50Hz 	
139.	Air 240 Cft Cylinder	 Material: Bath: seamless stainless steel with lid Case power coated steal Safety: over temperature cut-off, Alarm 	С

140.	Air 48 Cft	The cylinder must be of standard quality.	C
	Cylinder	BOC/Equivalent testing certificate must be provided	
141.	Baby Cots	Powder coated mild steel 18 SWG tubular frames.	С
		 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 with 2 inch thickness. 	
1.40	Dadaida	• Laying area 55 cm x 100cm.	<u> </u>
142.	Bed side	Overall size of locker 40cm width, 40cm depth, 80 cm height.	С
	Locker	Made up of SS 18 SWG.	
		One drawer. One cabinet with space between the drawer and	
		cabinet.	
		Base made of 1" round/square pipe.	
		FINISH: Polyester powder coated finishing	
143.	Bed side steel	Stainless Steel frame made of hollow pipe diameter 1" Shaped	C
	stairs	for two steps.	
		 Front and rear legs provided with steel bars. 	
		Wooden step duly covered with rubber mat and sides dressed in	
		aluminum/strip/Rubber.	
144.	Bed with side	<u>Bed</u> :	С
	Table and over	• Over all dimension (LxWxH) 195cmx 85cmx 55cm (±10)	
	bed trolley	Four section beds with all welded enameled main frame	
	(local)	constructed from rectangular section steel tube of 16SWG	
	(100ar)	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, The cranks have safety	
		features when reach maximum position.	
		Removable bed ends fitted with 10mm laminated	
		plastic/backlite 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. 	
		Polyester powder coated finishing. Red side Leeker:	
		Bed side Locker:	
		• Overall size of locker 40cm width, 40cm depth, 80 cm height.	
		Made up of SS 18 SWG.	
		Top made of CP galvanized steel sheet,	
		One drawer. One cabinet with space between the drawer and	
1		cabinet.	

		Base made of 1" round/square pipe.	
		FINISH: Polyester powder coated finishing	
		Over Bed Table:	
		Top made of Stainless steel.	
		1 · · · · · · · · · · · · · · · · · · ·	
		100cm, 100cm, 40cmMobile on four castors.	
		Side Railing:	
		 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 point of fixing on the structure of bed) 	
145.	Beds with side table		С
	over bed trolley	Over all dimension (LxWxH) 195cmx 85cmx 55cm or as per standard (±10)	
	(imported)	 The Bed must facilitate a metal constructed; mattress surface 	
		covered with 4-section stainless steel.	
		 Adjustable back rest and leg section by means of two independent cranks. 	
		The bed is mounted on double ball bearing, swivel castors of nontin and weather proof rubber. Two fixed at head end and two	
		swiveling with independent breaks at foot end.	
		 Rubber bumpers at all four corners 	
		Mattress holders	
		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 and joints of the platform shall be round and	
		smooth.	
		Bed side Locker:	
		• Overall size of locker 40cm width, 40cm depth, 80 cm height or standard.	
		Frame made of stainless steel / abs material.	
		Top made of CP galvanized steel sheet / abs material.	
		One drawer. One cabinet	
		OVER BED TABLE:	
		 Top made of Stainless steel/ABS. 	
		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 Railing:	
		 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 point of 	
		fixing on the structure of bed)	
146.	CO2 240 Cft	The cylinder must be of standard quality.	С
	Cylinder	BOC/Equivalent testing certificate must be provided	_
	J J -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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147.	CO2 48 Cft	The cylinder must be of standard quality.	С
	Cylinder	BOC/Equivalent testing certificate must be provided	
148.	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. 	С
149.	Cylinder Trolley	 Main structure made of 1" di acicular pipe. 	С
	240 CFT	Mobile on two castors of 8" dia	
		 For carrying 240Cft cylinder with safety chain for holding cylinders 	
150.	Cylinder Trolley	 Main structure made of 1" di acicular pipe. 	С
	48CFT	Mobile on two castors of 5" dia	
		For carrying 48Cft cylinder	
		With safety chain for holding cylinders	
151.	Dissection Table	Approximate dimension; 4ft X2ft X 3ft (L x Wx H)	C
	(small)/ Mortuary	It should made of stainless steel with a frame made of rugged	
	table	torsion resistant stainless steel profile.	
		 It should have 4 solid rubber swivels locking castors 	
		Tabletop depth should be of approx. 15mm sloping toward the	
		drain.	
		It should made of stainless steel with a frame made of rugged	
		torsion resistant stainless steel profile.	
		It should have 4 solid rubber swivels locking castors This is a solid rubber swivels locking castors This is a solid rubber swivels locking castors.	
		Tabletop depth should be of approx. 15mm sloping toward the drain.	
		 On drain side 15 ltr container, hole in center for drainage. Accessories: 	
		Stainless steel Bucket 10 ltr Qty 2 Leadwort	
		Headrest Redy support ships	
		Body support shimFoot rest	
152.	Dissection	Approximate dimension; 6ft X2ft X 3ft (L x W x H)	С
132.	Table(large)/	It should made of stainless steel with a frame made of rugged	
	. •	torsion resistant stainless steel profile.	
	Mortuary table	 It should have 4 solid rubber swivels locking castors 	
		Tabletop depth should be of approx. 15mm sloping toward the	
		drain.	
		On drain side 15 ltr container, hole in center for drainage.	
		Accessories:	
		Stainless steel Bucket 10 ltr Qty 2	
		Headrest	
		Body support shim	
		• Foot rest	
153.	Dressing	Constructed from stainless hollow pipe of 1 inch.	С
		Pre- 32 2 mem	_

	Trolley	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. 	
		• Push handle for easy movement.	
154	Dain stand	• Size: (70 cm L*50 cm W *90 cm H)	<u> </u>
154.	Drip stand	Heavy Weight base mobile on 50 mm dia castors	С
		Powder coated base and column with telescope adjustment.	
	D Cl T 11	• 4 ports I/V rod of wire diameter 0.5 mm.	
155.	Dry Clean Trolley	White cage trolley for transporting bulk linen.	С
		• Four rubber wheels.	
		• Dimension 720mmx960mmx850mm	
		Weight 15kg.	
156.	Electric Cardiac	Motorized ,battery operated Cardiac /ICU bed bed with remote	C
	Bed/ICU Bed	controller.	
	(Imported)	The Bed must facilitate a metal constructed, mattress surface	
		covered with 4-section abs Materials, ABS covered sub-frame.	
		The Sub-frame under the mattress surface must be covered with	
		steel Material.	
		The Bed must have fold- Away ABS side rails on both sides of the	
		bed, controlled separately.	
		The bed facilitates a hand control panel which must have	
		adjustments of the following functions	
		a) Backrest up-down	
		b) Footrest up-down	
		c) bed height up-down.	
		The bed must have electrical Trendelenburg and reverse	
		Trendelenburg adjustment.	
		Between $\pm 12^0$ by means of hand control unit.	
		Fowler, vascular, cardiac chair position and auto-contour positions	
		by hand control unit.	
		• The backrest section of the bed must be able to be adjusted between 0-70 ⁰	
		The bed must be equipped with auto-regression system at back rest.	
		• The footrest section must be able to be adjusted between 0-35 ⁰ or better.	
		Central brake system or lockable castors.	
		The bed must facilitate 4 IV pole sockets and head and footboards	
		sockets made a plastic, located under the head and footboards.	
		• The bed must facilitate 4 protective bumpers on external corners to	
		prevent damage on the contact area during bed movements and	
		transfer.	
		 The bed must work on 220V/50 Hz have rechargeable battery backup for movement control. 	
		 There must be urine bag hangers on both sides of the bed. 	
		 Gradually adjustable footrest. 	
		 5 inch dia casters two of them must be lockable diagonally. 	
		 The metal parts of the bed must be poxy powder quoted. 	
		The metal parts of the bed must bed epoxy powder quoted.	

The bed must have a safe load bearing capacity of 230 Kg or more. The bed's height must be able to be adjusted between 40cm and 70cm. or better Overall length 195cm or more. Overall length 195cm or more. The bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to human body or bed position. Dry Chemical fire extinguishers extinguish the fire primarily by interrupting the chemical reaction of the fire triangle. Type: Wall mounted type. Size: 4kg. Dry chemical fire extinguishers that is effective on Class A, B, and C fires. Class A fires are fires in ordinary combustibles such as wood, paper, cloth, rubber, and many plastics. Class B fires are fires in lammable liquids such as gasoline, petroleum greases, tars, oils, oil-based paints, solvents, alcohols. Class B fires are fires involving energized electrical equipment such as computers, servers, motors, transformers, and appliances. Dry Chemical fire extinguishers extinguish the fire primarily by interrupting the chemical reaction of the fire triangle. Ere extinguisher 6 Kg Dry Chemical fire extinguishers extinguish the fire primarily by interrupting the chemical reaction of the fire triangle. Type: Wall mounted type. Size: 6kg. Dry chemical fire extinguishers that is effective on Class A, B, and C fires. Class A fires are fires in ordinary combustibles such as wood, paper, cloth, rubber, and many plastics. Class B fires are fires in flammable liquids such as gasoline, petroleum greases, tars, oils, oil-based paints, solvents, alcohols. Class B fires are fires in flammable gases such as propane and butane. Class C fires are fires in flammable liquids such as gasoline, petroleum greases, tars, oils, oil-based paints, solvents, alcohols. Class B fires are fires in flammable liquids such as gasoline, petroleum greases, tars, oils, oil-based paints, solvents, alcohols. Class B fires are fires in flammable liquids such as gasoline, petroleum greases, tars, oils, oil-based pa			T	
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Class A fires are fires in ordinary combustibles such as wood,				
· · · · · · · · · · · · · · · · · · ·				
1 1 / 22 / 22 / 23 / 23 / 23 / 23 / 23 /			paper, cloth, rubber, and many plastics.	

160.	Folding Screen	 Class B fires are fires in flammable liquids such as gasoline, petroleum greases, tars, oils, oil-based paints, solvents, alcohols. Class B fires also include flammable gases such as propane and butane. Class C fires are fires involving energized electrical equipment such as computers, servers, motors, transformers, and appliances. Frame in four parts constructed from fully plastic-coated M.S. hollow tubular pipe 1" dia. All frames fixed together with Steel universal joints for easy movement of each part. Curtains fitted with spring loaded rods, Mobile on eight, castors of 75 mm dia. Curtain of wash and wear polyester cloth/ plastic cloth in 	C
		variety of colors.	
161.	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. 	С
162.	Instrument	 Frame constructed of stainless-steel hollow pipe, 	С
	Trolley	 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 	
163.	Manual Cardiac Bed/ICU Bed	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 40cm to 75cm	С
		 The bed must have Trendelenburg and reverse Trendelenburg adjustment. Between +120 by means of hand control unit. The backrest section of the bed must be able to be adjusted between 0-700 The bed must be equipped with auto-regression system at back rest. The footrest section must be able to be adjusted between 0-350 or more. Central brake system or lockable castors. The bed should have facility to take X-Ray of the patient over the bed (cassette holder). Back plate and knee rise by gas shock mechanism to make a fowler position. 5 inch dia castors, foot operated central lock for all castors. 	

		Two mattress holders on each side.	
		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: Length 195 cm or more	
		• Width 85 cm or more	
		• Accessories:	
		Bed fitted patient lifting pole.	
		• I.V Rod	
		• To be provided with CPR board.	
		Side Railing:	
		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	
		point of fixing on the frame of the bed).	
		Mattress should be provided with high density good quality	
		according to the bed size, anti-bacterial, and water proof, shaped	
	N'' O''1	according to human body or bed position.	0
164.	Nitrous Oxide	The cylinder must be of standard quality. POGT.	C
	240 Cft cylinder	BOC/Equivalent testing certificate must be provided	
165.	Nitrous Oxide	The cylinder must be of standard quality.	С
	48 Cft cylinder	BOC/Equivalent testing certificate must be provided	
166.	Orthopedic	Head & Foot Panels: Elegant High	С
	Traction Bed	• Size: L195cm×W85cm or more	
		Height:53cm	
		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	
		<u> </u>	

	Т		
		and weather proof rubber. Two fixed at head end and two swiveling	
		with in dependent breaks at foot end. • Pubber humpers at all four corners	
		Rubber bumpers at all four corners Four Mattress holders (2 at each side)	
		• Four Mattress holders (2 at each side)	
		With I V pole. Structure of the plotform shall be smooth and seemless.	
		Structure of the platform shall be smooth and seamless. Platform shall not contain a solid in and an according to the seamless.	
		 Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. 	
		_	
		All the joints shall be much and smooth. All the joints shall be much any only.	
		All the joints shall be made smooth. With quality models and a smooth.	
		With quality molded panels. Stainless staal Ballyan haam.	
		Stainless steel Balkan beam. With former and well-results above to the second control of the second cont	
		With frame and pulley attachment With the distriction of the second content of the	
		With patient support lifting polls	
		• Complete with all orthopedic attachments and accessories.	
		Side Railing:	
		 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 point	
		of fixing structure of bed)	
167.	Oxygen 240 Cft	The cylinder must be of standard quality.	С
	cylinder	BOC/Equivalent testing certificate must be provided	
168.	Oxygen 48 Cft	The cylinder must be of standard quality.	С
	cylinder	BOC/Equivalent testing certificate must be provided	
169.	Patient electric	Motorized ,battery operated patient bed with remote controller.	С
	bed (Imported)	ABS head & foot boards can be removable.	
	r · · · · · · · · · · · · · · · · · · ·	Aluminum alloy side rail, 6-staff, foldable type with safe lock	
		Bed sheet top made from perforated steel, epoxy powder coated	
		and baked finish.	
		Bed framework made from mild steel ERW rectangular tubes.	
		• 5 inch covered casters with brake	
		The bed must have a safe load bearing capacity of 230 Kg or more.	
		Rechargeable built-in battery with charger input power 220VAC,	
		50Hz	
		Approximate dimension	
		Overall length 195cm or more	
		Overall width 85cm or more	
		Minimum height 45cm	
		Maximum height 75cm	
		Back section up/down:0-70°	
		Knee section up/down:0-35°	
		Standard accessories	
		Head and foot board	
	İ		
		Beside rail	
		Beside railHand set	
		Hand set	

		 Mattress should be provided with high density good quality according to the bed size, anti-bacterial, and water proof, shaped according to human body or bed position. 	
170.	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". 	C
171.	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. 	С
172.	Stretcher (Imported)	 Lenth: 6 ft or more Width: 2 ft or more Made of stainless steel. 4 rubber castors having 23 cm dia. Castors should Lockable Top made of stainless steel 	С
173.	Stretcher (Local)	 Lenth: 6 ft or more Width: 2 ft or more Made of stainless steel. 4 rubber castors having 23 cm dia. Castors should Lockable Top made of stainless steel 	С
174.	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. Sample to be approved. 	С
175.	Wheel Chair	 Non folding wheel chair, 2 big wheels and 2 small wheels Should have footrest/ Foot support. With safety belt. Should have backrest/ Lumber support. Comfortably cushioned seat width 38 x 43cm, water proof covered. Sample to be approved. 	С
176.	Adult weighing scale	 Scale to have low level platform finished with non-slip cover, measuring Dial to be fitted at waist height steel yard arm. Capacity: 0 kg -150kg or better. Fitted with imperial and metric height measuring rod. 	D

177.	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 	D
178.	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 	D
179.	Analytical/Elec tronic 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 	D
180.	Attendant bench	 Benches without back support Wood Work: Top Strips 06 Nos of size 1200mm x 50mm x 20mm Strips made of solid shesham wood with 8 to 10 % moisture with termite treatment. Complete high-quality polish and lacquers for a long lasting shine. Shesham finished with 30 % gloss with 1 base 1 top coat. Steel Frame Structure Steel frame made of 18 gauge mild steel square pipe structure consist of 2 Nos top long rails. Frame size 1175mm x 25mm x 25 mm. Legs 04 Nos size 450mm x 25 mm x 25 mm Center support rail 01 of size 1175 mm x 25 mm x 25 mm Rubber shoes 04 of best quality. 	
181.	Baby Anesthesia Set	 Complete accessories anesthesia set for children. IV Canola's different sizes Facemasks different sizes re-usable Airways different sizes re-usable 	D

		Pediatric circuit re-usable Ambo bag	
182.	Baby	Complete kit in a carry bag including:	D
	Resuscitation	Infant Resuscitator: -	
	Apparatus	 Silicon Resuscitation Bag with infant face mask sizes 00 & 01 with non-re-breathing valve with 40cm of H2O pressure release Fully Autoclavable. Reservoir Bag volume 250ml 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 to100%. 1.5-meter O2 tubing Foot Suction: 	
		 Compact, lightweight, easy to handle and operate durable rubber bellow long lasting stainless spring to provide friction free pumping Completely Autoclavable polycarbonate vacuum jar with lid (400 ml capacity) Scratch proof powder coated frame. 	
		 Laryngoscope: Fiber-optic laryngoscope with stainless steel straight blades of size 0 & 1 with penlight handle 	
		• Airways:	
		• Silicone, Autoclavable& reusable in sizes 000, 00 &0	
		Oxygen Cylinder: Oxygen Cylinder:	
		Portable Oxygen Cylinder 1.5 lit complete with oxygen regulator and tybing	
		and tubing.Complete kit in one carrying case.	
183.	Baby weighing	Scales to be highly accurate and stable.	D
	scale	 Touch controls with splash proof key board. 	_
	Source	Removable baby weighing pan.	
		Automatic hold, slow and tare controls.	
		Capacity: 0 kg to 30kg or better.	
184.	Bed Sheet	Made of best quality cotton.	D
		• single standard size:- 60" x 100"	
		• Color: White	
185.	Binocular	Binocular Head band	D
	Magnifier	W/Optical Grade Lens plate	
		Magnifier 2 to 4 times.	
186.	Blanket	Best quality, Double ply, camel color, size: 60" x90"	D
187.	Blood Screening	8 keys laboratory counter with totalizer	D
	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.	

188.	Box for disposal	Material: Plastic	D
100.	of sharps	Capacity: 15 Litter or more	2
	•	Semi translucent lid	
		Suitable for hazardous items such as syringes, broken blades,	
		hooks, bottles and glass shards	
189.	BP apparatus	Constructed from shatter resistant materials fully protected plastic	D
	with stand	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. 	
190.	BP mercury	Sphygmomanometer in lightweight case.	D
	desktop with	Recessed plastic manometer tube range 0-300mm Hg with shatter	
	paeds and adult	proof reservoir.	
	cuff	 Velcro fastening cuff for adult and Paeds. 	
		Provision for storage for bulb, valve tubing and cuffs.	
191.	BP Set Wall	Sphygmomanometer Mercurial Wall Mounted	D
	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	
100	D	fastening cuff adult & Pediatric.	
192.	Breast pumps	Made of best quality plastic material.	D
193.	Centrifuge	Good quality made from glass. Tubes are conical- bottomed, with	D
	Tubes (Glass)	a skirt that extends beyond the bottom of the tube so it can stand	
		without support. • Branded	
194.	Centrifuge	Good quality made from plastic. Tubes are conical- bottomed,	D
174.	Tubes (Plastic)	with a skirt that extends beyond the bottom of the tube so it can	Ъ
	Tubes (Trastic)	stand without support.	
		Branded.	
195.	Clamps	For hanging of films, good quality	D
196.	Containers for	Sample based	D
170.	sputum	Sample based	Ъ
197.	Containers for	• Comple based	D
197.	Urine	Sample based	D
100			
198.	Cover Slip	• From good quality glass material,	D
		• Size:- 25.4x76.2mm	
100	Cuphoard Staal	• 1.1.2mm thick	D
199.	Cupboard Steel	18 gauge steel powder coated with shelves on one side and hanging unit on one side.	D
	Large	hanging unit on one side.	
		• Size 4 ftx 6 ftx 2 ft(W x H x D)	
200	DI C Countan	Sample to be approved G: G: 1 1 21	D
200.	DLC Counter	• Size: Standard 8keys.	D
		Heavy duty, resistant plastic housing.	
		Dual reset knob.	
		Signal bell when 100 cells counted	

201.	Ear Syringe		D
201.	Ear Syringe	Ear Syringe for cleaning of earStainless steel made.	D
202.	ENT	• Capacity: 10 ml or more.	D
202.	Diagnostic Set	 Adult & Paeds Diagnostic set comprising with 3 standard specula. 	D
	_	*****	
	(adult and	-	
	Paeds)	Battery Handle with chargeable batteries	
		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.	
203.	ESR Pipettes	 Made from Pyrex with graduated scale. 	D
		Branded	
204.	ESR stand for	 Good quality , washable, quality material & can hold five tubes 	D
	five Tube		
205.	Examination	• Good quality, Water resistant ,runtime 1 hour, weight 35 g	D
	torch	without battery ,head diameter 14mm.	
206.	FSP Pipette	Good quality , washable, quality material	D
		Branded	
207.	Glass pipettes	Made from durable material with graduated scale.	D
	(different sizes)	Branded	
208.	Glass slide	From good quality glass material branded	D
209.	Glass Wares	From good quality glass material branded	D
210.	Haemo	Manually operated, complete set of counting chambers,	D
	cytometer	• Cover slips, WBC pipette, RBC Pipettes (Imported).	
211.	Hangers Various	Hanger to be manufactured from stainless steel and to	D
	Size	 Have a clip at each end to keep film taut. 	
212.	Immersion Rod	For warming of developer, good quality	D
213.	Jester (1 to 10	Branded	D
213.	ul) Adjustable	Good Quality	2
214.	Jester (10 to	D 1.1	D
<i>4</i> 14.	100ul)		D
	Adjustable	Good Quality	
215		. D	D
215.	Jester (100 to	• Branded	D
	1000ul)	Good Quality	
	Adjustable		
216.	Jester Fix	• Branded	D
	1000ul	Good Quality	
217.	Jester Fix 100ul	Branded	D
		Good Quality	

218.	Jester Fix 10ul	Branded Good quality	D
219.	Jester Fix 20ul	Good quality Dronded	D
219.	Jestel 14x 20th	Branded Good Quality	D
220.	Jester Fix 500ul	Good QualityBranded	D
220.	Jester 1 IX 500di	Good Quality	D
221.	Jester Fix 50ul	Good Quanty Branded	D
221.	Jester 1 IX 30th	Good Quality	D
222.	Jester Fix 5ul	Good Quanty Branded	D
LLL.	Jester Tix Sur	Good Quality	D
223.	Lancets		D
223.	Lancets	From good quality material.Branded	D
224.	Laryngeal Face		D
224.	Masks (Small,	Each set have Sizes; Large, medium &small. Manufactured from closer non-toxic implentation.	D
	Medium &	 Manufactured from clear, non-toxic implantation tested autorclavable PVC. 	
	Large sizes)	Integra/nylon bite blockImported	
225.	Lead Apron	•	D
223.	Lead Apron	Best quality, imported. Fig. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	D
		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	
226.	Lead Glass	• 3 part X-Ray protection screen with metal frame. Size of	D
	Shield	• 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	
227.	Lead Gloves	Best quality, imported.	D
		Flexible lead rubber in tear resistant plastic cover	
		0.2mm lead thickness inside gloves.	
228.	Lens Set (Plus	Three mirror Universal lens laser coated.	D
	78 D)	Standard 78D lens laser coated.	
		Standard 90D lens laser coated.	
		Super field NC lens laser coated.	
		20D Indirect ophthalmoscopy lens laser coated	
229.	Manual ESR	E.S.R. APPARATUS WESTERGREENS TYPE BLOOD	D
	System	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	
230.	Manual Film	The processing unit to be equipped with a thermostatically.	D
	Processor	 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. 	
231.	Manual Suction	 Foot operated suction machine with heavy duty piston. 	D

	Apparatus for ICU	Pressure gage, Systian Land 1000ml with nine 2 meters land and systian namels.	
232.	Mattress Foam with Raxine Cover	 Suction Jar 1000ml with pipe 2 meters long and suction nozzle. Size: 6 ½ x 3 x 4" with Raxine cover, good quality Branded 	D
233.	Mattress Foam with Raxine Cover Medical Grade	 Size: 6 ½' x 3' x 4" with Raxine cover, Medical Grade good quality Branded Adjustable according to the patient / bed position. 	D
234.	Measuring Stand Infant	 Baby height measuring board for children upto 2 years age. Smooth and precise easy glide foot piece for accuracy of measurement. Head piece to be perpendicular to base with cut-out handle for increase mobility. Measuring range 21 to 99 cm. 	D
235.	Medicine (Iron Rack) 8x6x2	 Frame: 18 gauge steel powder coated with four shelves. Size 4 ftx 6 ftx 2 ft (W x H x D) Sample to be approved 	
236.	Micropipette Digital Different size	Standard sizesBranded	D
237.	OPD chairs S.S	 3-seater chairs (Steel) fixed / removable. With seating area approximately 51 cm x 50 cm. With silver enameled finished. The structure may be able to be fixed on the floor / replaceable. Imported, Good Quality. Minimum weight of OPD chair must be 34kg. 	
238.	ORS feeding containers and spoons	Good quality	D
239.	ORS measuring jug	Good quality	D
240.	OT Caps	Made of best quality, Color: Green	D
241.	OT Gown	Operation Gown Markeen Cloth, size: Small, Medium and Large	D
242.	OT Sheet	Made of best quality, Color: Green	D
243.	OT Shoes	Made of best quality, Slipper plastic leather.	D
244.	Otoscope Rechargeable	 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 	D

245.	Oxygen Cylinder Key	Good quality Oxygen Cylinder Key for 240 & 48 CFT cylinders	D
246.	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 	D
247.	Oxygen Flow Meter with humidifier	 Direct fitted to the Outlet BOC/Equivalent, included with the Humidifier. Nickel-plated brass base and body Clear shroud Expanded lower scale 0-5Lpm 	D
248.	Oxygen gauge	Complete with regulator, gauge, and standard accessories.	D
249.	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. 	D
250.	Pediatric Circuit	 Reusable and good quality circuit, Imported. Manufactured from clear, non-toxic implantation tested autoclavable PVC 	D
251.	Pillow with cover	 Standard size of best quality polythene Size: 24"x 15" Along with pillow cover: Size: 26" x 17", White Latha 	D
252.	Pipette stands	Standard size stand made from stainless steel. Branded	D
253.	Plastic Apron	 For dark room water proof, good quality, imported. 	D
254.	Proctoscope for adult & child	Manufacturer's mark must be indicated on all instruments.	D
255.	Randall Baker Face Mask all sizes set	 Each set have Sizes; Large, medium &small. Manufactured from clear, non-toxic implantation tested autoclavable PVC. Integra/nylon bite block Imported 	D
256.	Reagent Bottles	With good quality material.Branded	D
257.	Refraction Box	 35-Pairs-204 PCS and Universal Frame in Wooden carrying case. Spheres: ±0.12 to±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. 	D

258.	Safe Light for Dark Room	 Wall mounted lamp for all blue and green sensitive X-Ray Films. With two spare lamps (15 watts). Power requirement 220V/50Hz. 	D
259.	Sahli Hemoglobin meter	 Manual Hemoglobin meter with Hb pipette, Hb tube, bottle, glass rod, scanner for Hb Measuring. 	D
260.	Sam Circuit all sizes	Good Quality	D
261.	Steel Almirah for Medicines	 18-gauge steel, powder coated. With 4 shelves (Five Compartment). Size 4ft x 6ft x 1.5ft (WxHxD) 02 doors having transparent glass with heavy duty lock mechanism and best quality handle. 	D
262.	Steel File cabinet	 18-gauge steel, filing cabinet with three drawers each 450mm height with railing handles, locks and 100mm high pedestal. Including power coating with good surface finish Size 400 x 750mm x 1400mm 	D
263.	Stethoscope	 Lightweight aluminum/ S S adult chest piece construction. Adjustable chrome binaural. Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips. 	D
264.	Stethoscope Nursery	 Lightweight aluminum/S S Pediatric chest piece construction. Adjustable chrome binaural. Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips. 	D
265.	Stylets Adult / Paeds	 Reusable, autoclavable and good quality, imported. Nylon hard plastic PVC, different sizes (3, 4, 5, 6 & 7) 	D
266.	Table Cover large	Made of best quality, Size: 54" x 72"	D
267.	Table Cover small	Made of best quality, Size: 48" x 54"	D
268.	Test Tube holder	Best quality Stainless steel holder.	D
269.	Test Tube Racks Stainless Steel	Good quality, washable, stainless steel rack and can hold 12 tubes.	D
270.	Test Tubes	Good quality glass material	D
271.	Test Tubes Racks wooden	Good quality and finish wood and can hold 12 test tubes.	D
272.	Thermal Gun	 Medical Grade thermal gun This advanced non-contact infrared thermometer uses an infrared detector to detect body temperature from the temple for adults & children and can be used both at home and hospitals. Touchless thermometer for adults and kids adopts LCD digital display. 	D
		Temperature measurement in centigrade C and Fahrenheit F.	

		case.	
274.	Vaccine carrier and ice pack	 Vaccine storage capacity: 3-4 liters. Lid type & fixing: Self-Gripping Strips. External materials: Polyethylene/Polyester. Internal lining materials: Polyethylene/Polyester. Insulation materials: Airliner/Polyurethane Insulation thickness: 3.4 cm minimum. Number of icepacks required: 8. Cool life without openings: 30 hours at 43°C or better. 	D
275.	Vision testing drum	 Testing box to be wall mounted must be supplied with the following panels. English Alphabets 1No Illiterate "E" 1No Illiterate "C" 1No Children's 1No To be manually rotated. 	D
276.	Waste bin sets (Comprising 3 bins of White, Yellow and Red Color each measuring)	 Material: Polyvinyl chloride (PVC) Foot operated lid, open topwards. Volume: 45 liters. PVC molded to be used for lid hinges. Every bin will be labeled in legible writing "Only for Hospital waste and / or additional text. Waste bin Yellow. Waste bin Red. Waste bin White. 	
277.	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. 	D
278.	Wheel Chair Folding type	 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 with stand human load 	D
279.	Wire Loops	Good quality material	D
280.	Wooden Boxes	Good quality material	D
281.	X-Ray Cassette 10 x 12 with Green screen.	Cassettes with H.S type intensifying screen. With green screen for selection.	D
282.	X-Ray Cassette 12 x 15 with Green screen	Cassettes with H.S type intensifying screen. With green screen for selection.	D
283.	X-Ray Cassette 14 x 17 with Green screen.	Cassettes with H.S type intensifying screen. With green screen for selection.	D

284.	X-Ray Cassette 8 x 10 with Green screen.	Cassettes with H.S type intensifying screen. With green screen for selection.	D
285.	X-Ray Illuminator Double Table Top/ X-Ray Viewer / X-Ray Viewing Box	 X-Ray Film Viewer with following features. Table Top Housing made of epoxy-coated steel. Viewing area for two 14"x17"film. Light intensity more than 6000 Lux or more. With light intensity control. Suitable for wall mounted and table use. Film clamps and hooks for holding wet films. Power requirements 220V,50Hz. 	D
286.	AC 1 tone Split unit inverter type	 AC 1 tone Split unit inverter type Airflow: 4-Way Air Cooling effect: Heat and Cool Function Energy efficiency class: 60% Electricity saving. Noise level: Ultra Low Noise Control Type: Wall Mounted Gold fin Evaporator and condenser Auto clean R410 Eco friendly refrigerant With Complete Installation 	E
287.	AC 1.5 tone Split unit inverter type	 AC 1.5 tones Split unit inverter type Airflow: 4-Way Air Cooling effect: Heat and Cool Function Energy efficiency class: 60% Electricity saving. Noise level: Ultra Low Noise Control Type: Wall Mounted Gold fin Evaporator and condenser Auto clean R410 Eco friendly refrigerant With Complete Installation 	Е
288.	AC 2 tones Split unit inverter type	 AC 2 tones Split unit inverter type Airflow: 4-Way Air Cooling effect: Heat and Cool Function Energy efficiency class: 60% Electricity saving. Noise level: Ultra Low Noise Control Type: Wall Mounted Gold fin Evaporator and condenser Auto clean R410 Eco friendly refrigerant With Complete Installation 	E
289.	Door Air Curtain	 Power Supply: 220 ~ 230 / 50 Hz Airflow volume: 1200l/s or better Airflow velocity: 14m/s or better Max install Hight: 3.0 m 	Е

		• Sound Level: ≤61db	
		With complete installation	
290.	Electric Geysers	Branded Electric Geyser 10 Gallon or more	Е
	10 Gallons	• Storage Type	
		Thermostat for Temperature Control	
		Brand and Model Must be mentioned.	
		With Complete Installation	
291.	Electric Geysers	Electric Geyser 15 Gallon or more	Е
	15 Gallons	• Storage Type	
	10 Garrons	Thermostat for Temperature Control	
		Brand and Model Must be mentioned.	
		With Complete Installation	
292.	Electric Water	Branded Electric Water Cooler 40 Litters or more	Е
2)2.	Cooler 40 Litters	Stainless Steel Tank	L
	with Filter		
	with Filter	• To be installed with 3-part Filtration unit	
202	Electric Water	With Complete Installation Output Description: When God Line Description: When God Line Output Description: When God Line Output Description: When God Line Output Description: When God Line Description: When God Line Output Description: When God Line Description: When Line Descr	T:
293.	Electric Water	Branded Electric Water Cooler 60 Litters or more	Е
	Cooler 60 Litters	Stainless Steel Tank	
	with Filter	To be installed with 3-part Filtration unit	
		With Complete Installation	
294.	Electric Water	Branded Electric Water Cooler 80 Litters or more	E
	Cooler 80 Litters	Stainless Steel Tank	
	with Filter	To be installed with 3-part Filtration unit	
		With Complete Installation	
295.	Gas Geyser 30	Branded Gas Geyser 30 Gallons or more with cone	E
	Gallon	With thick glass wool to keep water Hot	
		With complete installation	
296.	Gas Geyser 50	Branded Gas Geyser 30 Gallons or more with cone	E
	Gallon	With thick glass wool to keep water Hot	
		With complete installation	
297.	ILR/Deep Freezer	Branded 16Cft, Double Door (Freezer & Fridge) with Racks and	Е
		Baskets	
298.	Refrigerator 12	Branded Double door,12 Cft Refrigerator.	Е
	CFT	With Complete Installation	
299.	Refrigerator	Branded Double door,14 Cft Refrigerator.	Е
	14CFT	With Complete Installation	
300.	Refrigerator 18	Branded Double door,18 Cft Refrigerator.	Е
	CFT	With Complete Installation	_
301.	Photocopier	Desktop type photocopier machine	Е
501.	Thotocopiei	Display: TFT/LCD display	ட
		 Display. 1F1/LCD display All in one function: Print, Scan, Photocopy 	
		 All in one function: Print, Scan, Photocopy Speed: 30 ppm or better 	
		 Speed: 50 ppm of better Paper capacity: 500 sheets tray 	
		 Paper capacity. 300 sheets tray Number of papers tray: 2 trays + 1 by pass 	
		 Warm up time: 12 second or less for warm up the machine 	
1			
		Document feeder: RADF/DADF/AFD	

	1		1
		Memory: 1 GB or above	
		• Power: 200-240 v	
		Connectivity: LAN / USB	
		Stabilizer:	
		With Servo motor stabilizer.	
302.	Printer	• Print Quality: 1200 x 1200 or higher.	Е
		• Print Speed: 20 ppm or higher.	
		Print Technology: LaserJet	
		• Processer: 1.2 GHz or higher	
		 Input Tray Capacity: 500 sheets or higher 	
		Output Tray Capacity: 250 sheets or higher	
		Media Support: A4, A4-R, etc.	
303.	Scanner	• Resolution: 600x600 dpi (ADF)& 1200 x 1200 dpi (Flatbed)	Е
		Automatic document feeder capacity: 50 sheets	_
		 Duplex ADF Scanning: Yes 	
		• Scan Size: 8.5" x 14: or higher	
		• Scan Speed: 30 ppm or higher	
		 Processor: 550 MHz or Higher 	
304.	Computer	Branded Computer	Е
304.	Computer	CPU:	L
		Branded CPU The second of the seco	
		• CPU Core i 7 Processor: 3.4 GHz (10 th generation)	
		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 /Ram Slots: 2 Slots 	
		 Memory Ram Size: 8 Giga Byte, supported up to 16 Giga Byte. 	
		• USB: 06 USB Ports or better	
		Monitor:	
		 Branded LED 21 inch monitor 	
		• FHD (1920x1080)	
		Accessories:	
		With all standard power cables.	
		Key board, Mouse, VGA cables etc	
		Antivirus: Kaspersky internet security or equivalent licensed for	
		one year.	
		With genuine windows	
305.	Laptop	Branded Laptop	Е
	I F	 Processor: Core i7 Quard-core (10th Generation) 	
		• Ram: 32GB or higher	
		Hard Disk: 1TB or higher	
		 Display Size: 13.3" or higher 	
		• Resolution: 2560 x 1600 or higher	
		 Graphics: Intl Iris Plus or better 	
		Wifi: 802.11ac wireless networking or equivalent	
		Bluetooth: 5.0 or higher	
		Diuctoom. 3.0 of Higher	

		Antivirus: Kaspersky internet security or equivalent licensed for	
		one year.	
		With genuine windows	
		With genuine windowsWith best quality bag	
306.	Multimedia	Projection Technology: DLP Chip	Е
300.			E
	Projector	Native Resolution: WUXGA or higher Prichtness (Lympans): 10000 or higher	
		Brightness (Lumens): 10000 or higher Contract Patie 1000011 on higher	
		• Contrast Ratio 10000:1 or higher	
		• Lens Shift Vertical Positive (%): 52 or higher	
		• Lens Shift Vertical Negative (%): 52 or higher	
		• Lens Shift Horizontal Positive (%): 18 or higher	
		• Lens Shift Horizontal Negative (%): 18 or higher	
		Keystone Horizontal Negative (degrees) 38 or higher	
		Keystone Horizontal Positive (degrees) 28 or higher	
		Keystone Vertical Negative (degrees) 13 or higher	
		Keystone Vertical Positive (degrees) 13 or higher	
		• Connectivity: HDMI x1, SDI IN x 1, DVI-D x 1, RBG 1 IN: 4 or	
		higher	
		• RGB 2 IN: x1	
		• SERIAL IN: 1	
		• SERIAL OUT: 1	
		REMOTE IN/OUT: 2/1	
		• RJ45 For Control/Monitoring: 1	
		• Other Accessories:	
		• 1 x Ceiling mount and projector plate and stand (Adjustable)	
		• 2 x HDMI cables (High quality shielded) extra length 45 feet	
		(Noise Free Video)	
		• 1 x Power cable 45 feet (Flexible 3 core (Pakistan Cable) or	
		equivalent)	
		• 1 x Projection screen with stand or wall mount (As per	
		requirement) Operationalization of Multimodia Projector System's all commonants as	
		Operationalization of Multimedia Projector System's all components as	
		well as end to end installation is included.	
307.	Generator 40	Genset Rating: (Model, Make and country of origin must be mentioned)	F
	KVA	• Prime rating: 40KVA/32KW	
		• Output Voltage (Single phase/Three Phase): 220-240/400-440	
		• Frequency: 50Hz	
		• Power Factor: 0.8 or better	
		• 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	
	1		

	1		
		 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:	
		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. 	
		Engine Oil Pressure	
		Engine RPM	
		Total Running Hours	
		Coolant Temperature (Digital)	
		Fuel level indication	
		Palate Earthing The fill is the state of the state	
		The following items must be included with diesel generator.	
		1. ATS panel (Local with imported components).	
		2. 10-meter Power cable will be provided with generator.	
		3. 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).	
		6. Separate price for Power cable (per mete), must be quoted.	
		 The supplier will be responsible for complete installation/ 	
		functionalization of the generator.	
308.	Generator 50	Genset Rating: (Model, Make and country of origin must be mentioned)	F
	KVA	• Prime rating: 50KVA/40KW	
		• Output Voltage (Single phase/Three Phase): 220-240/400-440	
		• Frequency: 50Hz	
		± *	
		• Power Factor: 0.8 or better	
		• RPM: 1500 or Better	
		Engine Specification: (Model, Make and country of origin must be	
		mentioned)	
		Fuel: Diesel	
	•		

	<u> </u>		
		• 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	
		Palate Earthing	
		The following items must be included with diesel generator.	
		ATS panel (Local with imported components).	
		2. 10-meter Power cable will be provided with generator.	
		3. 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).	
		6. Separate price for Power cable (per meter), must be quoted.	
		The supplier will be responsible for complete installation/	
		functionalization of the generator.	
09.	Generator	Genset Rating: (Model, Make and country of origin must be mentioned)	F
	100KVA	• Prime rating: 100KVA/80KW	
		Output Voltage (Single phase/Three Phase): 220-240/400-440	
		• Frequency: 50Hz	

- Power Factor: 0.8 or better
- 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
- 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
- Palate Earthing

The following items must be included with diesel generator.

- 1. ATS panel (Local with imported components).
- 2. 10-meter Power cable will be provided with generator.
- 3. 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).
- 6. Separate price for Power cable (per meter), must be quoted.
- The supplier will be responsible for complete installation/

		functionalization of the generator.	
310.	Generator	Genset Rating: (Model, Make and country of origin must be mentioned)	F
	200KVA	• Prime rating: 200KVA/160KW	_
	20011 111	Output Voltage (Single phase/Three Phase): 220-240/400-440	
		• Frequency: 50Hz	
		• Power Factor: 0.8 or better	
		RPM: 1500 or Better	
		Engine Specification: (Model, Make and country of origin must be	
		mentioned)	
		, and the second	
		• Fuel: Diesel	
		• Engine Rating in HP: 240 HP or better	
		No of Cylinders: 6 Inline or better Communication retires 16 Oct on better	
		• Compression ratio: 16.0:1 or better	
		• Displacement: 7.0L or better	
		Governor Type: Electronic Fuel Tank Congestive 2801, or better	
		 Fuel Tank Capacity: 280L or better Lubricant Oil Sump Capacity: 16L or better 	
		Ambient Temperature at Rated Load: 50°C Redictor Composity (L): 25 L on better	
		 Radiator Capacity (L): 25 L or better Alternator: (Model, Make and country of origin must be mentioned) 	
		• Type: 4 poles brushless	
		Insulation: Class H Notice Regulation No. Load to Full Loads + 10/, or better	
		• 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	
		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.	
		 Engine Oil Pressure 	
		Coolant Temperature (Digital)	
		Fuel level indication	
		Engine RPM	
		Total Running Hours	
		 Palate Earthing 	
		The following items must be included with diesel generator.	
		ATS panel (Local with imported components).	
		2. 10-meter Power cable will be provided with generator.	
		2. 10-meter rower cause will be provided with generator.	

		,	
311.	R.O water purification plant for dialysis Machine	 Providing, installation and testing of the unit and earthling network for generator set. Construction of foundation pad. Weather and sound proof canopy (Local). Separate price for Power cable (per meter), must be quoted. The supplier will be responsible for complete installation/functionalization of the generator. RO Water Purification System to operate 10-12 Dialysis Machines through store tank, with imported parts locally manufactured. The system should comprise of pretreatment modules such as Pre RO micron filter for Bacterial protection Sand filter, activated carbon filter, water softener, 5 micron particulate filter, before the reverse osmosis unit and post R.O UV light Disinfection and Bacterial Filters. The entire unit should have adequate monitoring permeate water conductivity, feed water pressure and permeate and rejection flow rate. The water distribution loop, booster pump and storage water tank should be rust free. Storage water tank should have capacity of at least 500 liters. Feed Pump Type centrifugal, horizontal, Material of construction Stainless Steel. input power 220VAC, 50Hz, single phase The filtered water will be pumped by means of a high-pressure pump through the R O Module consists of 2 nos. of SS Pressure tubes &2 nos. of membranes Size of Membrane 4" Dia x 40" Long. Around 50 % of the feed water will be available as permeate or product water and balance 50 % will be reject stream which will be the effluent from RO plant. High Pressure Pump Type Vertical Multistage Material of construction Stainless Steel input power 220VAC, 50Hz, single phase 	G
		 construction Stainless Steel input power 220VAC, 50Hz, single phase Should not have noise level more than 65 db. Should have TDS meter to monitor feed water conductivity and 	
		 R.O water conductivity. It should be sensor to stop the feed pump when storage tank full, restarts it when RO water level goes down in the tank 	
312.	60KVA three phase Automatic voltage regulator	 restarts it when RO water level goes down in the tank. Digital micro control type servo motor drive 60KVA three phase automatic voltage regulator. Input Line Voltage Range: 260VAC to 470 VAC, 4 Wire Output Line Voltage Range: 4 wire system (220 to 230 VAC netural to phase) (380 VAC to 440VAC phase to phase ±3%) Winding 99% copper Power factor 0.9 or better No wave form distortion Response time not greater than 10 ms no overshooting or hunting during automatic operation. Air cooling type Ambient temperature: -10 to 40°C or better AVR should have Overload/High/Low input voltage alarm AVR should have overload, Spike and surge protection. 	G

		The AVR should have to display the following.	
		Input Phase to Netural	
		Input Phase to Netural Input phase to phase	
		Output phase to phase Output phase to neutral	
		Load Current in all the phases Eraguency	
		Frequency Overall system should have protection essing and wheels	
		Overall system should have protection casing and wheels (lockable) for mayament.	
		(lockable) for movement.	
		The supplier will be responsible for complete installation/ functionalization of the unit	
212	20 VVA single	functionalization of the unit.	G
313.	30 KVA single	Digital micro control type servo motor drive 30KVA single	G
	phase	phase automatic voltage regulator.	
	Automatic	• Input Line Voltage Range: 130VAC to 270VAC	
	voltage regulator	Output Line Voltage Range: 220VAC to 230VAC	
		• Winding 99% copper	
		No wave form distortion	
		Air cooling type	
		• Ambient temperature: -10 to 40°C or better	
		Response time not greater than 10 ms no overshooting or	
		hunting during automatic operation.	
		AVR should have overload, Spike and surge protection.	
		The AVR should have to display the input voltage, output	
		voltage and load current.	
		The supplier will be responsible for complete installation/	
		functionalization of the unit.	
314.	5 KVA UPS	Topology: Double conversion online	G
		Nominal output voltage: Configurable for 220 : 230 or 240 nominal	
		output voltage	
		Efficiency at full load: Up to 92% with at least 40 minutes backup	
		• Output frequency(sync to mains):50/60 Hz +/- 3 Hz user adjustable	
		Output power capacity: 4500W or better	
		• Output connections: (8) IEC 320 C13; (2) IEC 320 C19	
		Nominal input voltage:230 V	
		• Input frequency:45 – 65 Hz (auto sensing)	
		• Input connections: Hardwire 3-wire(1PH + N + G)	
		Bypass: Automatic and Manual (Built-in)	
		Battery type: Maintenance-free sealed lead-acid battery with	
		suspended electrolyte: leak proof	
		• Operating Temp: $0 - 50^{\circ}$ C	
		(Output derated linearly to 75% of UPS capacity @>400C)	
		Replacement battery: RBC44	
		• Interface port(s): RJ-45 10/100 Base-T, RJ-45 Serial, Smart Slot	
		• Emergency power off(EPO):Yes	
		Control panel: LEDs	
315.	5KVA Solar Off	5000 Watts (5 KVA) 48 Volts DC, 220 Volt AC Single Phase	G
	Grid Hybrid	Ouput, MPPT 80 Ampere Charge Controller with Hybrid charging,	
	Inverter	and electronic protections complete in all respect.	

 Four 12 Volt, 150 AH Deep Cycle Maintenance Free GEL Batteries 300 Watt Solar Panel (Mono-Crystalline) PV Module with 25
Years Power Output Warranty, 16
Solar Panel Mounting Structure ,made of Hot Dipped Galvanized Steel Structure (Angle Iron) 16
• 16mm (sq) flexible cable 99.9% copper
• Transportation / Installation Charges to be bared by the firm 1

Surgical Instruments (Category C)

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

Selection must be subject to sample.

S#	Item Name	Specifications
1.	All metal bladder syringe	Best quality, good material.
2.	Allies forceps 6"	Best quality, good material.
3.	Allies forceps long	Best quality, good material.
4.	Aneurysm needle curved to the right	Best quality, good material.
5.	Artery forceps 4"	Best quality, good material.
6.	Artery forceps 5" pointed ss	Best quality, good material.
7.	Artery forceps 6"	Best quality, good material.
8.	Artery forceps 6" SS curved	Best quality, good material.
9.	Artery forceps 8" straight	Best quality, good material.
10.	Artery forceps 9" long curved	Best quality, good material.
11.	Artery forceps 9" long pointed curved	Best quality, good material.
12.	Artery forceps 9" long straight	Best quality, good material.
13.	Bandy turin verbal forceps 9.5 long	Best quality, good material.
14.	Basin SS	Best quality, good material.
15.	Basin stand	Best quality, good material.
16.	Berkleys Retractor	Best quality, good material.
17.	Bohlerieg tight splint different size	Best quality, good material.
18.	Bone cutting forceps	Best quality, good material.
19.	Bone Nibbler	Best quality, good material.
20.	Bone Ranger (Oral Surgery)	Best quality, good material.
21.	Bowel SS large	Best quality, good material.
22.	Bowel SS small	Best quality, good material.
23.	Bozemansfirst his catheter for washing drum	Best quality, good material.
	vessel	
24.	Bozemans needle holder 7.5"	Best quality, good material.
25.	BP handle	Best quality, good material.
26.	BP Scalpel Handle for Blad-15 oral surgery	Best quality, good material.
27.	Brand splinters tendon stopper	Best quality, good material.
28.	Brewers or gives specula 3 size	Best quality, good material.
29.	Brims extension frame for long D sizes	Best quality, good material.
30.	Cartridge Syringes with aspirating facility	Best quality, good material.
31.	Cheatle Sterilizer forceps10" long	Best quality, good material.
32.	Check Retractor (Oral Surgery)	Best quality, good material.
33.	Chisel 6 size	Best quality, good material.
34.	Containers for Sputum Culture	Best quality, good material.
35.	Containers for urine Culture	Best quality, good material.
36.	Cremel double Retractor	Best quality, good material.
37.	Curette Oral Surgery	Best quality, good material.

38.	Curved light forceps for stone 8,6,5" long	Best quality, good material.
39.	Danis Browns Retractor Universal	Best quality, good material.
40.	Dilating complete set	Best quality, good material.
41.	Dissecting forceps plain	Best quality, good material.
42.	Ear syringe	Best quality, good material.
43.	Elevator Angular Pair	Best quality, good material.
44.	Elevator cross bar pair	Best quality, good material.
45.	Elevator pair of cryers (Triangular Shape)	Best quality, good material.
46.	Elevator straight	Best quality, good material.
47.	Entrap Uterine Canals	Best quality, good material.
48.	Erosed Mattable probe ended director 6.5"	Best quality, good material.
10.	long	Best quanty, good material.
49.	Eve's intestinal forceps 9" long	Best quality, good material.
50.	Examination Mirror	Best quality, good material.
51.	Examination tweezers	Best quality, good material.
52.	Extraction Forceps upper Interior	Best quality, good material.
53.	Extraction forceps lower BDR	Best quality, good material.
54.	Extraction forceps lower interior	Best quality, good material.
55.	Extraction forceps lower molar	Best quality, good material.
56.	Extraction forceps lower pre-molar	Best quality, good material.
57.	Extraction Forceps upper BDR	Best quality, good material.
58.	Extraction Probe Upper Molar	Best quality, good material.
59.	Extraction Probe Upper Pre Molar	Best quality, good material.
60.	Female Dilator	Best quality, good material.
61.	Female metallic catheter	Best quality, good material.
62.	Galantian squotum sound	Best quality, good material.
63.	Gallium Hysterectomy forceps curved 11x1	Best quality, good material.
64.	Gallium Hysterectomy forceps straight 1x2	Best quality, good material.
65.	Gland forceps	Best quality, good material.
66.	Gadless urine dilator	Best quality, good material adjustable
67.	Hammer Heavy	Best quality, good material.
68.	Hangers models double ended cervix dilation	Best quality, good material.
69.	HerocsTurin uterus fine semi blunt	Best quality, good material.
70.	Hurry Fenwicks Retractor	Best quality, good material.
71.	Instrument cabinet large size	Best quality, good material.
72.	Intestine Holding forceps	Best quality, good material.
73.	Introducer for Catheter	Best quality, good material.
74.	Kelley's Retractor	Best quality, good material.
75.	Kidney pedicle 9.5" long	Best quality, good material.
76.	Kidney tray SS Size	Best quality, good material.
77.	Laces Retractor	Best quality, good material.
78.	Lamp cradle 3 size	Best quality, good material.
79.	Lanes stomach holding forceps 8"	Best quality, good material.
80.	Lange back's Retractor L Shape oral surgery	Best quality, good material.

81.	Legel Face Mask	Best quality, good material.
82.	Lens Tissue forceps 8"	Best quality, good material.
83.	Legenback Retractor	Best quality, good material.
84.	Lion forceps v sizes	Best quality, good material.
85.	Lockport memory fistula director pattern	Best quality, good material.
	1,2,3,4	
86.	Main Gut intestinal forceps	Best quality, good material.
87.	Mason Chained file dissector with probe 5.5"	Best quality, good material.
88.	Mayas Safety Pins	Best quality, good material.
89.	Mayo Curved 8.5" long	Best quality, good material.
90.	Mayo instrument stand	Best quality, good material.
91.	Mayo Needle Holer 7.5"	Best quality, good material.
92.	Mayo Straight Scissors	Best quality, good material.
93.	Megills forceps	Best quality, good material.
94.	Metozone bum scissors 8.5"	Best quality, good material.
95.	Mirrors Retractor	Best quality, good material.
96.	Moore boil spoon with handle	Best quality, good material.
97.	Mouth prop oral surgery	Best quality, good material.
98.	Nail extractor	Best quality, good material.
99.	Needle holder large size	Best quality, good material.
100.	Nose speculum	Best quality, good material.
101.	Nose Vigilant forceps 13.5"	Best quality, good material.
102.	Oeatomes 4 sizes	Best quality, good material.
103.	Oller Retractors	Best quality, good material.
104.	Ordinary mask nasal catheters	Best quality, good material.
105.	Parser excision clamp 9"	Best quality, good material.
106.	Pelivis meter	Best quality, good material.
107.	Periosteal Elevator Oral surgery	Best quality, good material.
108.	Periosteum Elevator	Best quality, good material.
109.	Pin cutter	Best quality, good material.
110.	Plaster of paris knife	Best quality, good material.
111.	Pool S Abdominal Suction Tube	Best quality, good material.
112.	Position Aspirator	Best quality, good material.
113.	Preat stainless steel	Best quality, good material.
114.	Precursor	Best quality, good material.
115.	Randall's renal calculus curved	Best quality, good material.
116.	Rectal speculum large / small	Best quality, good material.
117.	Rectangular tray SS	Best quality, good material.
118.	Retro-grate boggles size 4/7, 6/9, 8/11	Best quality, good material.
119.	Richardson Appendectomy Set Retractor	Best quality, good material.
120.	Same ducks abill specula double ended	Best quality, good material.
121.	Scissors oral surgery	Best quality, good material.
122.	Scissors Surgical V. size	Best quality, good material.
123.	Self-Retracting Abdominal	Best quality, good material.

124.	Sim forceps	Best quality, good material.
125.	SIMMs duck bill specula single ended	Best quality, good material.
126.	Single Hocks Blunt	Best quality, good material.
127.	Singles vigilant dressing forceps with	Best quality, good material.
127.	small sector	2000 quanty, good materials
128.	Skin Retractor	Best quality, good material.
129.	Skin small Retractor	Best quality, good material.
130.	Small Needle Holder oral surgery	Best quality, good material.
131.	Smith forceps hare curded left / right	Best quality, good material.
132.	Sound Bladder	Best quality, good material.
133.	Spittoons stainless steel	Best quality, good material.
134.	Sponge holder forceps large size	Best quality, good material.
135.	Sponge holder with curved older with	Best quality, good material.
	curved handle 8"	
136.	Sponge holder with spring handle 16"	Best quality, good material.
137.	Suction bowel stand	Best quality, good material.
138.	Tendon hook	Best quality, good material.
139.	Tenotomy knife Blunt ended	From good quality glass material
140.	Tenotomy knife sharp pointed	Best quality, good material.
141.	Toothed dissecting forceps oral surgery	Best quality, good material.
142.	Towel clip	Best quality, good material.
143.	Tracer Canola	Best quality, good material.
144.	Tray with cover large size	Best quality, good material.
145.	Tubule inflation apparatus	Best quality, good material.
146.	Urethral V S	Best quality, good material.
147.	Urinal stainless steel male and female	Best quality, good material.
148.	Uterine curette blunt and sharp	Best quality, good material.
149.	Vigilant dressing forceps 9.5"	Best quality, good material.
150.	Wire cutting forceps	Best quality, good material.
151.	Wallons Gesture Eterestomy clamp 13"	Best quality, good material.
152.	Ward nephrolithotomy forceps	Best quality, good material.
153.	Wash stand with 2 basin side by side	Best quality, good material.
154.	Waxen Jones birth fracture frame	Best quality, good material.
155.	Tendon Hammer	Best quality, good material.
156.	wire Brush	Best quality, good material.
157.	Tuning Fork	Best quality, good material.
158.	Teflon Injection Burning Syringe	Best quality, good material.
159.	Femoral Distractor	Best quality, good material.
160.	Hand Chulk	Best quality, good material.
161.	Pin Cutter	Best quality, good material.
162.	Jex Thyroid Retractor hooking nut	Best quality, good material.
163.	Prostate (Bladder) Self Retaining Retractor	Best quality, good material.
164.	Thyroid Retractor	Best quality, good material.

	TT 1 10 1	
165.	Vaginal Speculum	Best quality, good material.
166.	Amalgam Plunger filling	Best quality, good material.
167.	Bone Rongers (Oral Surgery)	Best quality, good material.
168.	Burnishing Filling	Best quality, good material.
169.	Cartridge Syringe with Aspirating Facility	Best quality, good material.
170.	Cellulose or Plastic Strip	Best quality, good material.
171.	Cement Spatula	Best quality, good material.
172.	Excavator Filling	Best quality, good material.
173.	Glass Slab	Best quality, good material.
174.	Instrument for Filling	Best quality, good material.
175.	Mortar & Pastel	Best quality, good material.
176.	Steel Matrix Bands Different Size	Best quality, good material.
177.	Abdominal Retractor	Consisting Of:
		1 X Retractor With 2 Pairs Exchangeable
		Valves
		1 X Gusset Retractor
		1 X Denis - Browne Retractor With 4 Blades
178.	Stand for three sterilizer drum with	Make of Steel Pipe dia
	Drained	wake of Steel 1 spe dia
179.	Basin S.S.	Best quality, good material.
190	Basin Stand	
180.		Best quality, good material.
181.	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
182.	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
183.	Chest Intubations Set	Best quality, good material.
184.	Point's Aspirator	Best quality, good material.
185.	Tongue Depressor Steel	Tongue Depressor Steel
186.	Proctoscope for adult & child	Best quality, good material.
187.	Proctoscope	Premium Grade Stainless Steel
188.	Screw driver Ser 3.5mm	Best quality, good material.
189.	Screw driver Ser 4.5mm	Best quality, good material.

LIST OF SURGICAL INSTRUMETNS SETs (Category C)

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

Selection will be on samples.

S.No	Name of the Set	Specification	
1	General Instrument	1. Instrument Tray10x12	01
	Set	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	
2	Ear Surgery	Plaster first incision Knife	01
	Instrument Set with	2. Rotary First incision Knife	01
	Operating Microscope	3. Sickle Knife	01
	operating microscope	4. Myringotomes	01
		5. Aural Crocodile forceps Tilley's	01
		6. CawthorneCrocodile Scissors Straight	01
			01
		l	
		1	
		1 0	
		<u> </u>	
2		16.kidney tray500ml Along with Container 1. Plaster first incision Knife 2. Rotary First incision Knife 3. Sickle Knife 4. Myringotomes 5. Aural Crocodile forceps Tilley's	01 01 01 01 01 01 01 01 03 02 03 01 05

		23.Plaster Jenson Retractor Left	01
		24.TumarkinMetal Ear Speculum Slotted	04
		25.CawthornePeriosteal Elevator	01
		26.King Vein Graft Pressing Forceps	01
		27.InstrumentsTray12"x14"	01
		28.Needles Box	01
		29.Mastoid Chisel	01
		Along with Container	
3	Rhinoplasty Set	Nasal Speculum	01
		2. Alfrights Nasal Retractor	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 Valselum	02 Septum forceps
		Str. (Ash)	01
		7. Metzenboum Scissors Cvdonflat8"	01
		8. Stoz nasal saws rightandleft	02
		9. Padgett nasal rasp fine and heavy	03
		10. Joseph nasal Respectory	01
		11.Joseph skin hooks	03
		12.Kilner Alae retractor	02
		13.Heath Mallet.	01
		14.Set f MclandoeChisels5,7,9,11,15mm	01
		15.Tillys Nasal Forceps	01
		16.McIndoe Non ToothedForceps6"	01
		17.Mastarde'sToothedForceps6"	01
		18.Adson Toothed Forceps Fine	01
		19.Adson Toothed Forceps Medium	01
		20.American pattern suction cannula	01
		21. Valkmann curette	01
		22.Towel Clips	08
		23.Marking pen	01
		24.Inkpot	01
		Along with Container	
4	SMR Set	1. Freer Elevator	02
		2. Killian Nasal Gouge V-Shape angled	02
		3. Killian Nasal Gouge V-Shape straight	02
		4. Lucus Nasal chisel	02
		5. Hammer SS	01
		6. Frazier Suction Nozzle No 9,10,12	03
		7. Tilley's Nasal Dressing Forceps	01
		8. Luc Turbinate Forceps Small	01
		9. Luc Turbinate Forceps Medium	01
		10.Hartmann crocodile forceps	01
		11.Killian NasalSpeculum2"	01
		12.Killian NasalSpeculum2.5"	01
		13.Killian NasalSpeculum3"	01
		14. Hayman's Turbinectomy Scissors	01
		15.Thudicum nasal speculums	03
		16.Tilley's Trocar &CannulaNo7	02

		17. Tiiley's Trocar & Cannula No8	01
		18. Walsham Septum Forceps straint 2	01
		19. Double action bone nibbler Jenson. Middleton 01	
		20. Walsham septum forceps right	01
		21.walsham septum forceps left	01
		22. Yankaur suction nozzal	01
		23.Kidney tray 1000ml	01
		Along with Container	
5	Tonsillectomy Set	1. Boyle Davis Mouth Gag Set. (Set of 5 Blades).	01 Set
		2. Suspension Rods.	01Pair
		3. Suspension Plate.	01
		4. Gwynne Evans Tonsil Dissector.	01
		5. Mollison Anterior Pillar Retractor.	01
		6. Waugh Tonsil Dissecting Forceps 1X2 Tooth 8".	01
		7. Waugh Tonsil Dissecting ForcepsPlain8".	01
		8. Tonsil Artery ForcepsFineStraight.	01
		9. Negus Tonsil Artery Forceps Short Curve.	01
		10.Negus Tonsil Artery Forceps Long Curve.	01
		11. Tonsil Scissors Curved 7.5".	01
		12. Tonsil Scissors Fine Point Curved 7".	01
		13.Eve's Tonsil Snare.	01
		14. Tonsil Snare Wire Packet. (Packet of 15Pes)	01 Pkt.
		15.St. Clair Thomson Adenoid Curette With guard Sm	all.01
		16.St. Clair Thomson Adenoid Curette With guard Lar	
		17.Negus Pusher.	01
		18.Denis Brown Tonsil Holding Forceps.	01
		19.B.P. HandleNo.7.	01
		20. Yankaur Suction Nozzle.	01
		21.Instruments Tray	01
6	Cataract Surgery Set	1. Wire Speculum.	01
		2. St. Clark's Self-Retraining Speculums.	01
		3. Arragua's Superior Rectus Needle Holder	01
		4. Blade Breaker.	01
		5. Micro Corneal Forceps with Suture Tying	01
		6. Universal Corneal Scissors.	01
		7. Iris Scissors Str/Cvd.	02
		8. Micro Corneal needle holder.	01
		9. Iris Repository double ended.	01
		10.Arruga"s capsular forceps	01
		11. Wire Vectus.	01
		12.Cautery Point.	01
		13.Spring Scissors Straight.	01
		14. Micro Mosquito Artery Forceps Str/Cvd.	04
		15. Fixation Forceps.	01
		16.Micro Suture Tying Forceps.	01
		17.Simeco Two-way Cannula.	01
		18. Toothed dissecting forceps 7"	01
		19. Non toothed dissecting forceps 7"	01
		20. Allis forceps 8"	01
		21.Long Artery forceps 9" curved	01
		21. Long Artery forceps 3 Curved	U1

		22.Long Artery forceps 9" straight	01
		23.Deaverretrctors set of three 2",2",3"	01
		24. Volsellum forceps	01
		25.Kidney tray 1 litre	01
		26.Kidney tray 500 ml	01
		27.Mcpharson Forceps	01
		28.Instruments Tray 8x10"	01
		Along with Container	
7	DCR Instrument Set	1. D.C.R. BonePunch (Karrison).	01
		2. D.C.R. Periosteal Elevator Double Ended	01
		3. Mosquito Artery Forceps Straight.	02
		4. Mosquito Artery Forceps Curved.	02
		5. Bowman Lacrimal Probe No.0-00.	01
		6. Bowman Lacrimal Probe No.1-2.	01
		7. Bowman Lacrimal ProbeNo.3-4.	01
		8. Wilder Lacrimal Dilator.	01
		9. West Lacrimal Sac Chisel.	01
		10. Towel Clips.	02
		11.Straight Eye Scissors (Iris).	01
		12. Stevens Tenotomy Scissors.	01
		13. Stevenson Lacrimal Sac Retractor.	01
		14. Knapp Lacrimal Sac Retractor.	01
		15.Small Mallet.	01
		16.Barraquer Needle Holder Curved.	01
		17. Straight Dressing Forceps (Iris) Plain.	01
		18. Nasal Speculum.	01
		19.NasalDressingForceps.	01
		20.SutureBarker	01
		Along with Container	01
8	Electric Foreign	Beccock	02
0	_	2. knife handle	01
	Body Set	3. Small artery forceps	03
			01
		4. plane dissecting forceps5. tooth dissecting forceps	01
		6. needle holder	01
		7. Scissor	02
		8. Small Allis's	02
		9. Retractors	02
		Along with Container	02
9	Dissection box for		02
9		 Enterotome Skull Chisel 	
	post-mortum with all		02
	accessories	3. Rib Cutter	02 05
		4. Scalpel	
		5. Scalpel Blades 6. Tooth Forcers	100 Pc
		6. Tooth Forceps7. Bone Saw	05 02
		8. Amputation knife	02
		9. Postmortem Hammer	01
		10.Postmortems Chisel	02
		11.Postmortem Spine Wrench	01

12.Postmortem Hook Knife
14.Scissor
Along with container 10 Glaucoma Set 1. Blade Braker 01 2. B.P Handle No.3 01 3. Wire Speculum 01 4. Mosquito Artery Forceps Str/Cvd 02 5. Corneal Scissors Right. 01 6. Corneal Scissors Left. 01 7. Corneal Scissors Curved of flat. 01 8. Barahuer Needle Holder Curved 01 9. A/I Cannula 01 Along with Container 01 Along with Container 01 01 01 01 01 01 01 0
10 Glaucoma Set 1. Blade Braker 01 2. B.P Handle No.3 01 3. Wire Speculum 01 4. Mosquito Artery Forceps Str/Cvd 02 5. Corneal Scissors Right. 01 6. Corneal Scissors Left. 01 7. Corneal Scissors Curved of flat. 01 8. Barahuer Needle Holder Curved 01 9. A/I Cannula 01 Along with Container
2. B.P Handle No.3 3. Wire Speculum 4. Mosquito Artery Forceps Str/Cvd 5. Corneal Scissors Right. 6. Corneal Scissors Left. 7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula Along with Container
3. Wire Speculum 4. Mosquito Artery Forceps Str/Cvd 5. Corneal Scissors Right. 6. Corneal Scissors Left. 7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula Along with Container
4. Mosquito Artery Forceps Str/Cvd 02 5. Corneal Scissors Right. 01 6. Corneal Scissors Left. 01 7. Corneal Scissors Curved of flat. 01 8. Barahuer Needle Holder Curved 01 9. A/I Cannula 01 Along with Container
5. Corneal Scissors Right. 6. Corneal Scissors Left. 7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula Along with Container
6. Corneal Scissors Left. 7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula 10. Along with Container
6. Corneal Scissors Left. 7. Corneal Scissors Curved of flat. 8. Barahuer Needle Holder Curved 9. A/I Cannula 10. Along with Container
8. Barahuer Needle Holder Curved 01 9. A/I Cannula 01 Along with Container
9. A/I Cannula 01 Along with Container
9. A/I Cannula 01 Along with Container
Along with Container
11 Squiit Surgical Set 1. Which Needle holder 01
2. Needle Holder Large 01 3. Conjunctival Scissors 01
5. Artery Forceps 06 6. Bulldog Clamps 02
6. Buildog Clamps 02 7. Squint Hook 02
8. V. Calipers. 01 9. Bowel SS 4" 01
10. Kidney Tray Along with Container
Along with Container
12 AO Basic Set 1. Twist Drills (unmounted 2.5mmdiam.13cm) 02
2. Twist Drills (unmounted 3.5mmdiam13cm) 02
3. Howmann Bone lever small 16 length 6mm wide 03
4. Howmann Bone levercobratype.16cm 01
5. Varburg Bone holdingforceps20cm 02
6. Reduction clamp pointed13cm 02
7. Reduction clamp screw jaw withteeth15cm 02
8. Simmons plier17cm 01
9. Tap 2.7mmdiam11cm 01
10. Handle for screw driver +countersink 01
11. Counter sink 10mm diam12.5cm 01
12. Screw driver 2.5mm11.5cm 01
13. Jeffsonperosteal elevator 5mm20mm 01
14. Plate bender14cmRetorcedor 02
15. Screw sleeve 2.5mm+2.0mm 01
16. Screw sleeve 2.7mm+2.0mm 01
17. Tap sleeve 2.5mm+3.5mm 01
18. Venabie Screwsleeve 2.0mm 01
19. Drill Guide 02
20. Bone Scaler 01
21. Depth gage Large 01
22. Screwclamps8cm 01
22 Commun Driver with Colida 2 Francis 10 and O1
23. Screw Driver with Guide2.5mm19cm 01
23. Screw Driver with Guide2.5mm19cm 01 Along with Container 13 AO Small Fragment 1. Bone Holding Forceps A/o small 02

	Set	2. Bone Spikier small	02
		3. Screw Driver small2.5mm	01
		4. Periosteal Elevator small	01
		5. Chisel small	01
		6. Bone Cutter small	01
		7. Wire Cutter Small	01
		8. Tap small3.5	01
		9. Tap Sleeve3.5	01
		10.Depth Gage Small	01
		11. Screw Sleeve	01
		12.Instruments Box	01
		Along with Container	01
14	Dressing Set for Ward	Dressing scissors(Plastic Handle)	01
14	Diessing Set for Ward	2. Stitch Scissors fine	02
			01
		3. No Toothed Forceps.	
		4. Toothed Forceps.	01
		5. Artery forceps.	01
		6. Suture forceps.	01
		7. Small Kidney Tray.	01
		8. Bowl	01
		9. Kocher Forceps	01
		Along with Container	
15	IMN Set	1. Awl	01
		2. Cortical Awl	01
		3. Tissue Protecor	01
		4. Impactor Large, Medium and Small	01
		5. GuidePin3.5mm	01
		6. Extractor	01
		7. Bio-Locking Femur	03
		8. 10/12/14x360/380/400/420/440/460	02
		9. Femur proximal locking screw	03
		10.60/65/70/80/90/100	02
		11.Tibia/femoral blocking screw	03
		25/30/35/40/45/50/55/60/65	22
		12.Bio-locking Tibia	03
		13.Bio-locking humerus	03
		14.Proximal locking screw	
		15.End Stem	O1 anah
		16.Reamer with T-Handle 6mm to 17mm	01 each
4 -	D:	Along with Container	0.4
16	Dissecting Instrument	Artery Forceps Medium	04
	Set	2. BP Handle	02
		3. Dissecting Forceps plain & tooth	02
		4. Dressing Disecting Scissors (S & M)	02
		5. Dressing suture Cutting Scissors	01
		6. Czerny Retractor	02
		7. Legenback Retractor	02
		8. Needle Holder	02
		Along with Container	
17	Colostomy set	1. Instrument container box10"x12"	01

		2. Towel clips on pin	06
		3. B.P handleNo4	02
		4. Artery forceps 6"curved	08
		5. Artery forceps 6"straight	04
		6. Sponge holding forceps	02
		7. Metzebaum scissors 9"curved	01
		8. Sim's straight scissors 8"	01
		9. Czerney retractors	02
		10.Langen baeck retractors	02
		11.Needle holder7"	01
		12.Toothed dissecting forceps7"	01
		13.Non toothed dissecting forceps7"	01
		14.Deaver retractors 2"wideblade	02
		15.Deaver retractors 3"wideblade	01
		16.CBR bougles set`	01
		17.Lathey's forceps	01
		18. Werthemneedleholder9"	01
		19. Allis forceps 7" (S,M & L)	06
		20. Yankauer suction canola	01
		21.Kidney tray1litre	01
		22.Deaver retractors 3"wideblade	01
		23.Kidney tray500ml	01
		24.Toothed dissectingforceps9"	01
		25.Non toothed dissectingforceps9"	01
		Babcock Forcep (S,M & L)	06
18	C-Section set	1. instrument container box 10"x12"	01
		2. Towel clips on pin	06
		3. Sponge holding forceps	02
		4. Non toothed dissecting forceps 7"	02
		5. Toothed dissecting forceps 7"	01
		6. BP handle No 4	02
		7. Allis's forceps 9"	02
		8. Kidney tray 1 litre	01
		9. Artery forceps 6" curved on pin	08
		10.Artery forceps 6"	04
		11.straight Metzebaum scissors 9"	01
		12.curved Sim's straight scissors 8"	01
		13.Doyne retractors	01
		14.Gallipots 150 ml	01
		15. Wrighley's outlet forceps pair	02
		16. Needle holder 7"	02
		17.Needle holder 9"	01
		18. Baby Cord clamps	02
		19. Green armytage forceps	02
		20.Long Artery forceps 9" straight	01
		Long Artery forceps 9" curved	02

19	D & C Set	Uterine Sound		01
		2. Curette Double Ended		03
		3. Volselum10"		01
		4. Artery Clamp 10"		08
		5. Ovum Forceps.		02
		6. Dialectomy set		01
		7. Sims speculum forceps set of three		01
		8. Curved for Gynae 1 to 5		01
		9. Sate catheter (Metallic female catheter		01
		10.Instrument containerbox10"x12"		01
		11.towel clipsonpin		04
		12.sponge holdingforceps9.5"		01
		13.non toothed dissecting forceps 8"		02
		14.Allis's forceps 9"		02
		15.Dilator set (Hegers)		01
		16.Galli Pot 150ml		02
20	Dressing Set with	1. instrument container box10"x12"		01
	Trolley	2. Towel clips on pin		06
		3. Sponge holding forceps		01
		4. non toothed dissecting forceps?"		01
		5. Allis's forceps9"		01
		6. Dilator set		01
		7. Sims speculum set		01
		8. Duck speculum set		01
		9. Uterine Sound		01
		10. Volselum set	01	
		11.Uterine curette set of three		01
		12.Kidney tray 1 litre	01	
		13.Flushing curette set of three	01	
		14.Gallipots 150 ml	01	
21	E & C Set	1. instrument container box10"x12"		01
		2. Towel clips on pin		04
		3. Sponge holding forceps		01
		4. non toothed dissecting forceps?"		06
		5. Allis's forceps9"		02
		6. Dilator set	04	
		7. Sims speculum set	04	
		8. Duck speculum set		04
		9. Uterine Sound		01
		10.Volselum set		04
		11.Uterine curette set of three		02
		12.Kidney tray 1 liter		01
		13.Kidney tray 500ml		01
		14.Flushing curette set of three		01
		15.Gallipots 150 ml		01

22	T+	T		0.1
22	Laparatomy set	1. Instrument container box 10"x12"		01
		2. Towel clips on pin		06
		3. B.P handleNo4		02
		4. Artery forceps6"curved		08
		5. Artery forceps6"straight		04
		6. Sponge holding forceps		02
		7. Metzebaumscissors9"curved		01
		8. Sim's straightscissors8"		01
		9. Czerney retractors		02
		10.Langenbaeck retractors		02
		11.Needleholder7"		01
		12. Toothed dissecting forceps 7"		01
		13.Non toothed dissectingforceps7"		01
		14.Deaver retractors 2"wideblade		02
		15.Deaver retractors 3"wideblade		01
		16.Kirscchnerself-retaining retractor with 4	blades	01
		17. Non crushing intestinal clamps curved		02
		18.Non crushing clamps straight		02
		19. Artery clamps9"curved		01
		20.Lathey's forceps		01
		21.Debaky Forcep		01
		22.Toothed dissectingforceps9"		01
		23. Non toothed dissectingforceps9"		01
		24.Allisforceps7"		02
		25. Yankauer suction cannula		01
		26. Kidney tray1litre		01
		27.Kidney tray500ml		01
		28.Needleholder9		01
		29.Daithermy Monopolar		01
		30.Self-Retaining Retractor		01
23	Normal Delivery	Stainless steel imported/Local made		01
23	set	2. Bowl lotion 150 mm		01
	SCI	3. Kidney Tray 10"		03
		4. Mucus Extractor Reusable Rubber		02
		5. Catheter used with mucus Extractor	02	02
		6. Artery Forceps Kocher 8" straight.	02	04
		7. Dissecting Forceps 6" toothed.	04	J.
		8. Needle holder mayo 6.5	01	
		9. Outlet Forceps large size.	02	
		10.Episiotomy Scissors 6"	02	
		11.Scissors B/B	06	
		12.Card Clamp.	01	
		13.Sims Speculum	01	
		Along with Container		
24	Obs/ General Gynae	1. Instrument container box 10"x12"		01
	set	2. Towel clips on pin		01
	301	3. Sponge holding forceps		01
		4. Non toothed dissecting forceps?"		01
		5. Toothed dissecting forceps?"		01
		6. BP handle No 4		01
		o. Di nandici No T		O1

	1	T	
		7. Allis's forceps 8"	01
		8. Kidney tray 1 litre	01
		9. Artery forceps 6" curved on pin	01
		10.Artery forceps 6"straight	01
		11.Metzebaum scissors 9" curved	01
		12.Sim's straight scissors 8"	01
		13.Kidney tray 500ml	01
		14.Deaver retractors set of three	01
		15.Gallipots 150ml	01
		16.Bowl 8 litre	01
		17.Needle holder7"	01
		18.Needle holder9"	01
		19.Self-retaining retractor (Balfon3blades)	01
		20. Volsellum forceps	01
		21.Long Artery forceps 9"straight	01
		22.Long Artery forceps 9" curved	01
		26. Viginal Retractor	01
25	Thoracotomy set	1. Instrument container box10"x12"	01
		2. Towel clips on pin	06
		3. B.P handleNo4	02
		4. Artery forceps 6"curved	08
		5. Artery forceps 6"straight	04
		6. Sponge holding forceps	02
		7. Metzebaumscissors9"curved	01
		8. Sim's straightscissors8"	01
		9. Czerney retractors	02
		10.Langenbaeck retractors	02
		11.Needleholder7"	01
		12.Toothed dissectingforceps7"	01
		13. Non toothed dissectingforceps?"	01
		14.Allis forceps7"	01
		15.Rib spreader	01
		16.Doyenribra spactories set	01
		17. Yankauer suction cannula	01
		18.Lung retractors	02
		19. Kidney tray1litre	01
		20.Kidney tray500ml	01
26		21.Needleholder9"	01
26	Thyriodectomy Set	1. Joll's Retractor	01
		2. Towel clip on pin	06
		3. BP handleNo4	02
		4. Artery forceps 6"curved	08
		5. Artery forceps 6" straight	04
		6. Sponge holding forceps	02
		7. Meta-Baum scissors9"curved	01
		8. Sim's s straightscissor8"	01
		9. Czemcy retractor	02
		10.Langeback retractor	02
		11.NeedleHolder7"	01
		12.Toothed dissectingforceps7"	01

		13. Non toothed dissectingforceps 7"	01
		14.Thyroidre	01
		15.Alliesforceps7"	01
		16.Kidney tray1liter	01
		17.Kidney tray500ml	01
		17. Along with Container	
27	Urethral Dilator set	1. Complete Set of Autoclavable Dilators	
		2. Sizes; 2-32	
		15.Along with container	
28	Varicose Vein set	1. Instrument container box 10"x 12"	01
		2. Towel clips on pin	06
		3. B.P handle No 4	02
		4. Artery forceps 6" curved	08
		5. Artery forceps 6" straight	04
		6. Sponge holding forceps	02
		7. Czerney retractors	02
		8. Langenbaeck retractors	02
		9. Needle holder 7"	01
		10. Toothed dissecting forceps 7"	01
		11.Non toothed dissecting forceps 7"	01
		12.Artery clamps 9" curved	01
		13.Lathey's forceps	01
		14. Toothed dissecting forceps 9"	01
		15.Non toothed dissecting forceps 9"	01
		16.Allis forceps 7"	01
29	Haemorrhoidectomy	1. Instrument container box 10"x 12"	01
	set	2. Towel clips on pin	06
		3. Artery forceps 6" curved	08
		4. Artery forceps 6" straight	04
		5. Sponge holding forceps	02
		6. Metzebaum scissors 9" curved	01
		7. Sim's straight scissors 8"	01
		8. Needle holder 7"	01
		9. Toothed dissecting forceps 7"	01
		10.Non toothed dissecting forceps 7"	01
		11.Kidney tray 1 litre	01
30	Prostatectomy Set	1. Instrument container box 10"x12"	01
		2. Towel clips on pin	06
		3. B.P handle No4	02
		4. Artery forceps 6"curved	08
		5. Artery forceps 6" straight	04
		6. Sponge holding forceps	02
		7. Metzebaum scissors 9"curved	01
		8. Sim's straight scissors8"	01
		9. Czerney retractors	02
		10.Needle holder7"	01
		11.Toothed dissecting forceps7"	01
		12.Non toothed dissecting forceps7"	01
		13. Suprapubic retractor	01
		14.Allis forceps?"	01
		15. Yankauer suction cannula	01

17. Kidney tray 500ml		1	16 IV: June 11: 11: 11:		0.1
R.Prostectomy Retractor			16.Kidney tray 1 litre		01
Cholecystectomy Set					
2. Towel clips on pin 06 3. B.P. handle No4 02 4. Artery forceps 6" straight 04 6. Sponge holding forceps 02 7. Metzebaum scissors 9" curved 01 8. Sim" s straight scissors 9" 01 9. Czerney retractors 02 10. Langenbacek retractors 02 11. Needle holder?" 01 12. Toothed dissecting forceps?" 01 13. Non toothed dissecting forceps?" 01 14. Deaver retractors 2" wide blade 02 15. Deaver retractors 2" wide blade 02 16. Allis forceps?" 02 17. Yankauer suction cannula 01 18. Kidney tray Ilitre 01 18. B.P. handleNo 4 02 4. Artery forceps 6" curved 08 5. Artery forceps 6" straight 04 6. Sponge holding forceps 02 7. Metzebaumscissors 9" curved 01 8. Sim" s straightseissors 9" 02 11. Needleholder?" 01 12. Toothed dissecting forceps?" 02 12. Towel clipson pin 06 13. B.P. handleNo 4 02 14. Artery forceps 6" straight 04 15. Sponge holding forceps 02 16. Langenbacek retractors 02 17. Metzebaumscissors 9" curved 01 18. Sim" s straightseissors 9" 01 19. Czerney retractors 02 11. Needleholder?" 01 12. Notothed dissecting forceps?" 01 13. Alliesforceps?" 01 14. Non toothed dissecting forceps?" 01 15. Alliesforceps?" 01 15. Alliesforceps? 02 15. Deapen bolding forceps 02 16. Sim's speculum set 01 17. Gaulipost 150ml 02 22. Viginal Retractor 01 23. Vascular set 01 24. Artery forceps 6" straight 04 25. Artery forceps 6" curved 08 26. Artery forceps 6" curved 08 27. Artery forceps 6" curved 08 28. Artery forceps 6" curved 08 29. Artery forceps 6" curved 08 20. Artery forceps 6" curved 08 21. Artery forceps 6" curved 08 22. Artery forceps 6" curved 08	21	Chalagystagtomy Sat	-	01	01
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5. Artery forceps 6"straight 04 6. Sponge holding forceps 02			4. Artery forceps 6"curved		08
6. Sponge holding forceps 02					04
7. Metzebaumscissors9"curved 01			6. Sponge holding forceps		02
7. INTERCOMMINDUIDUID VALVA VI			7. Metzebaumscissors9"curved		01

		8. Sim's straightscissors8"	01
		9. Czerney retractors	02
		10.Langenbaeck retractors	02
		11.Needleholder7"	01
		12.Toothed dissectingforceps7"	01
		13.Non toothed dissectingforceps7"	01
		14. Allis forceps 7"	04
		15. Vascular Clamp	02
34	Laminectomy Sets	Carrison's Rangour (up-cut)	02
		2. 1mm, 2mm, 3mm,4mm	
		3. Pituitary Rangour	04
		4. 1mm, 2mm, 3mm(Strait)	
		5. 2mm Forward -	01
		6. 2 mm Backward –	01
		7. Watson chain Dissector – 01	
		8. Adson's retractor – root retractor	01
		9. Mastoid retractor- 02	
		10.Deep Mastoid retractor (Cervical)	02
		11. Hemi-retractor – (Right 01) (Left 01)	
		12.Chisel – 01	
		13.Suction nozzles – small, medium,large	01 Each
		14.BP knife handle – long	01
		15.Cutting se: fine / assistant Scissors	02
		16.Needle holders	· -
		17. Dissecting forceps- Plain and tooth	02
		18. Artery forceps	04
		19. Towel clamps sponge holding	01
		20.Kidney trays	02
		21.Instrument's tray (Large)	01
		Along with container	
35	VP Shunt	Sulemans subcutaneous shunt passer	01
		2. Adult Size	04
		3. Paeds Size	04
		4. Hudson Brace –perforator	01
		5. Burn bole(Various sizes)	01 Each
		6. Brain Cannula -	01
		7. Adson's Dissector	02
		8. Mastoid Refractor – Small, Medium, Large sizes	01 Each
		9. Peritoneal trocar	01
		10.Cutting set –scissor-fine/assistant	01
		11. Needle holder- fine large	01
		12.Artery forceps – all size 04	
		13.Dissecting forceps- plain,tooth	01 Each
		14.Sponge holder	01
		15.Kidney tray	01
		16.Instrument tray- large size	01
		17.Bowl(sponge)	01
		18. Suction- nozzles- medium, small sizes	01 Each
		Along with container	
36	Kidney Stone	1. Dijorden Forceps	01
L	<u> </u>	<u> </u>	

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	Removal	2. BoleocksRt angled long dissecting	01
	Set	3. Long scissors forceps	01
		4. Long needle holders	02
		5. Suction nozzles with guard	01
		6. Morrison's refractor	01
		Along with container	
37	Appendectomy	Mayoscissor 14cm curved TC	01
	Surgery Set	2. Scalpel Handle #4	02
		3. Allis tissue forceps 15 cm	04
		4. Bab cocks tissue forceps 16 cm	02
		5. Plain Forcep	01
		6. Toothed Forcep	01
		7. Artery Forcep Curved	04
		8. Artery Forcep Straight	02
		9. Czerny Retractor	02
		10.Needle Holder	02
		11.Suture Cutting Scissor	01
		12.Kidney Tray 500ml	01
		12.Along with container	
38	Bone Set Large,	Complete set of Bone Cutter	01
	Small	2. Bone Nibblers	02
	and Medium	3. Chisel - osteotome,	02
	and Medium	4. Hammer – Periosteum	01
		5. Elevator,	01
		6. Bone levers etc.	04
		7. Complete sets curettes	04
		8. Bone holding forceps.	04
		Along with container	
39	Cutting Instrument Set	BP needle	01
		2. A. Forceps	01
		3. Allis Forceps	01
		4. Sponge holding	01
		5. Dissecting plain/tooth	1 Each
		6. Towel Clips	04
		7. Needle Holders	06
		8. Kidney Tray	02
		9. Bowels	02
		10.Instruments Tray	01
		11.Dissecting Box	01
		12. Suture Cutting Scissors	01
		13.C-Zarny Refractors Scissors	01
		14.Langback	01
		Along with container	
40	Marin appleates Cat	Plaster first incision knife	
40	Myringoplasty Set		
		2. Rotary first incision knife	
		3. Sickle knife	
		4. Myringotomes	
		5. Aural crocodile forceps Tilley's	
		6. Cawthorne crocodile scissors straight	

7. Cawthorne cro	ocodile scissors right
8. Cawthorne cro	ocodile scissors left
9. Frazier suction	n nozzlesnos.6.7.8.
10.Micro suction	nozzle
11.Cawthorne ho	ok. Different angles
12.Granulation fo	rceps straight
13.Micro ear instr	ruments different (Mobilizer, Measuring rode, Curette
,elevator Rt,L	t
14.Micro Hartma	nn crocodile forceps straight
15.Micro Hartma	nn crocodile forceps right
16.Micro Hartma	nn crocodile forceps left
17.Mollison mast	oid retractor adult
18.Mollison mast	oid retractor child
19.Micro granula	tion forceps straight
20.Micro granula	tion forceps right
21.Micro granula	tion forceps left
22.Plaster Jenson	retractor right
23.Plaster Jenson	retractor left
24.Crocodile forc	eps fine tips3"
25.Tumarkin met	al ear speculum slotted
26.Ear speculums	
27.Caw thorne pe	riosteal elevator
28.King vein gra	ft pressing forceps
29.Instruments tra	
30.Needles box	
31.Mastoid chisel	
41 Automatic pipette Standard size	s branded
(Full Set)	
42 Inter locking Nail set 1. Universal sock	xet wrench 01
	4.5 mm & 5mm screw 01
3. Hex driver for	6.4mm screw 01
4. Tracer for 5mi	m screw 01
5. Guide wire 2.	0mm x 900mm Long 01
6. Guide wire 3.0	01 mm x 900mm Long
7. Guide wire 2.0	mm x 900mm Long with Tip 01
8. Open End Wre	
9. Supine Driver	01
10.T- Handle	01
11.Driver/Extrac	
12.Skin Protector	
13.Bone AWL	01
14.Tapered Ream	
	Guide for Femoral Nails 01
16.Slide Hammer	
· ·	Long) 8.0mm DIA 01
	Short) 8.0mm DIA 01
19.Trocar for Dri	
20.Drill Bit 305m	
21.Drill Bit 305m	
43 Small Fragment Set 1. Drill Bit 3.2m	m 01

		2. Drill Bits 4.5mm	01
		3. Bone Tap 6.5mm	01
		4. Bone Tap 4.5mm	01
		5. Tap Sleeve 3.5mm	01
		6. Tap Sleeve 4.5mm	01
		7. Drill sleeve for round hole plate	01
		8. Tap handling coupling	01
		9. Counter sink 4.5mm	01
		10.Neutral and loaded Drill Guide 3.2/4.5mm	01
		11.Insert sleeve 4.5/3mm	02
		12.Pointed Drill guide	01
		13.Socket Wrench 11mm	01
		14.Malleolar counter sink coupling	01
		15.Hexagonal screw driver 4.5mm	01
		16.Hexagonal screw driver shaft 4.5mm	01
		17. Combination wrench 11mm	01
		18.Death gauge for 4.5mm and 6.5mm screws	01
		19.Sharp hook	01
		20.Screw holding forceps	01
		21.Bending template 5H,7H,9H	03
		22.Compression device 8mm	01
		23.Plate bender large	01
		24.Pin wrench	01
44	Large Fragment Set	1. Drill Bit % 3.5	01
		2. Drill Bits %2.5	01
		3. Small counter sink	01
		4. Small Hexagonal screw driver W/Holding sleeve	01
		5. Small hexagonal screw driver W/End coupling fit	01
		6. Insert sleeves 3.5mm/2.5mm	02
		7. Periosteal elevator small straight edge	01
		8. Bone tap 3.5mm/1.25mm pitch cortex	01
		9. Bone tap 4.0mm/1.75mm pitch caneellous	01
		10.Drill guide and drill sleeve for 2.0mm bit	01
		11. Tap sleeve 3.5mm and drill sleeve 2.5mm	01
		12. Tap sleeve 3.5mm and drill sleeve 2.7mm	01
		13.Neutral and loaded drill guide 3.5mm	01
		14.Small Hoffman retractor 6mm	01
		15.Small Hoffman retractor 8mm	01
		16.Self-centering bone holding forceps	02
		17.Reduction forcep	02
		18.Bending plier	01
		19.Hoffman retractor w/broad shank	01
		20.Depth gage for 2.7-4.0mm screws	01
		21.Sharp hook	01
		22.Bending template 7H,9H	02
		23.Plate bender small	01
		24. Tap handle quick or coupling	01
I	1	1 1 T O	

45	DHS set	1. Guide pin with thread	03
		2. H H S angle guide	01
		3. DHS Triple reamer	01
		4. Impactor	02
		5. Tap for DHS	01
		6. Coupling screw for plate insertion with guide shaft	01
		7. Coupling screw or screw removal	01
		8. Quick coupling handle	01
		9. Reverse measuring device	01
		10.Centering sleeve for tap	01
		11. Centering sleeve for wrench	01
		12.DCS triple reamer	01
		13.DCS angled guide	01
46	Obstatnia sympany sat	Metzenbaum's scissors curved 7"	01
40	Obstetric surgery set	2. Ditto 5/4"	01
	minor and major		
		3. Scissor straight sharp/blunt 51/2"	01
		4. Mayo's scissor straight 61/2"	01
		5. Ditto curved 51/2"	01
		6. Ditto curved 61/2"	01
		7. Littauer's stitch scissor,hook end 5"	01
		8. Wire cutting scissors	01
		9. Dissecting forceps serrated points 5" 01	
		10.Ditto 8"	01
		11.Maingot's Dissecting forceps serrated points 11"	01
		12. Treves Dissecting forceps 1x2 teeth 5"	01
		13. Waugh's Dissecting forceps fine 1x2 teeth 8" 01	
		14. Mayo's tissue grasping forceps 9"	01
		15.Crile artery forceps straight 5/"	18
		16.Ditto curved 5/4""	24
		17.Pean's artery forceps curved 61/2"	18
		18.Ochsner's artery forceps tenaculum points 61/2"	12
		19.Backhaus towel clips 5"	12
		20. Foerster's sponge forceps straight 91/2"	06
		21.Ditto curved 91/2""	06
		22.Balfour's abdominal retractor,7"opening,21/2"deep	lateral blade x 1
		3/4"centre blade	01
		23.Set(of 5 sizes)deaver's retractor	01
		24. Walton's malleable cooper retractor 11/2"x 12"	01
		25.Ditto 2"x12"	01
		26.Morris retractors,blade 2"deep x 21/2"wide	01
		27. Richardson's retractor, blade 3/4"x13/4"	02
		28. Volkmann's retractor,4 prong blunt	02
		29. Ditto,4 prong sharp	02
		30. Pair parker's double ended retractors, small 5/8"wid	
		01	· A J
		31.Durham's retractor,blade 5/8"wide,	01
		32. Dupuytren's aneurysm needle and ligature carrier, of	
		52. Dupuyuen s aneurysin needie and figature carrier, C	01
		33. Ditto curved to left	
			01
		34. Allis tissue forceps,5x6 teeth,6"	12
		35. Babcock's tissue forceps 61/4"	06
		36. Probe, with eve silver 6"	03

	T		
		37.Ochsner's Trocar 6mm diam	01
		38.Poole's abdominal suction tube	01
		39.Crile-woods needleholder,6", with diamond jaws	02
		40. Hagar's needleholders,7", with diamond jaws 02	
		41. Ditto 8", with diamond jaws	02
		42.Graves Specula Small Size	02
		43. Ditto medium size	02
		44. Ditto large size	02
		45. Jayle's self-retaining retractor	02
		46. Auvard's vaginal speculum weighted	01
		47. Sims duckbill speculum, double ended, medium siz	
		48. Doyens flat retractor, blade 4"x1 1/8"	02
		49. Doyens rectangular retractor, medium size	02
		50.Golpe's Vulva retractor	01
		51. Bozemann's uterine dressing forceps 9/2"	02
		52. Foerster's sponge holding forceps 91/2"	06
		53.Heywood smith's Ovum forceps	02
		54. Wilson's Vulsellum forceps,1x1 teeth,9/2"	06
		55. Teale's Vulsellum forceps, straight 3x3 teeth, 9"	02
		56. Uterine Vulsellum forceps,2x2 teeth,10"	02
		57. Doyen's myoma screw	01
		58Simpson's uterine sound, graduates in inches	01
		59. Randall's endometrial biopsy curette, luer-cone	01
		60. Van doren's uterine biopsy forceps, 101/2"	01
		61. Leech-Wilkinson's uterine biopsy forceps,8"	01
		62. B.P Scalpel handle No.4	02
		63. Scissor straight sharp/blunt 51/2"	02
		64. Mayo's scissor straight 6 1/2"	01
		65. Ditto curved 61/2"	01
		66. Wire cutting scissor 5"	01
		67. Dissection forceps, serrated points 5"	02
		68. Vaginal Dissection forceps, with finger groove, serra	01
		69. Ditto,tenaculum points,81/2" 01	
		70. Millin's dissection forceps,3x4 teeth,9"	01
		71.Backhaus towel clips 5"	06
47	Dental Instrument	INSTRUMENT SET DENTAL SURGERY	
	complete Set	Basic instrument set for use in the dental surgery room.	•
	1	1. Probe single ended perio CPTN-C	04
		2. Spatula double ended No 8	02
		3. Spatula double ended No 3	02
		-	
		4. Spatula double ended 8 x Alginate/Plaster metal Cur	
		5. Instrument for plastics	04
		6. Excavator double ended 127/128	04
		7. Excavator double ended 131/132	04
		8. Forceps tissue tweezer type College Fig 8 plain	06
		9. Carver Ward 2	02
		10. Scaler balanced grip H4	02
		11. Scaler balanced grip H5	02
		12. Scaler balanced grip H7	02

13. Scaler balanced grip H9	02
14. Scaler balanced grip Towner U15	02
15. Scaler balanced grip Jaquette 2	02
16. Scaler balanced grip Jaquette 3	02
17. Scaler balanced grip H6/7	02
18. Scaler Octagonal H4	02
19. Scaler Octagonal H5	02
20. Scaler Octagonal H6	02
21. Scaler Octagonal H8	02
22. Scaler Octagonal H9	02
23. Scaler Octagonal TownerU15	02
24. Scaler Octagonal Jaquette 2	02
25. Scaler Octagonal Jaquette 3	02
26. Scaler Gracey Curette double ended ½	02
27. Scaler Gracey Curette double ended 3/4	02
28. Scaler Gracey Curette double ended 5/6	02
29. Scaler Gracey Curette double ended 9/10	02
30. Scaler Gracey Curette double ended 13/14	02
31. Scaler MacFarlane Balanced Tip MFO/1	02
32. Scaler MacFarlane Balanced Tip MF2/3	02
33. Scaler MacFarlane Balanced Tip MF4/5	02
34. Burnisher DE AM (W) 1	02
35. Burnisher DE AM (W) 1L	02
36. Amalgam Plugger Blacks 0/1	02
37. Amalgam Plugger Blacks 1/2	02
38. Elevator Apical Straight	02
39. Elevator Apical Left	02
40. Elevator Apical Right	02
41. Elevator Coupland 1	02
42. Elevator Coupland 2	02
43. Elevator Coupland 3	02
44. Elevator Warwick James Straight	02
45. Elevator Warwick James Left	02
46. Elevator Warwick James Right	02
47. Elevator Cryer 30 left	02
48. Elevator Cryer 31 right	02
49. Forceps Artery Spencer Wells 5" straight	02
50. Forceps Artery Spencer Wells 5" curved	02
51. Forceps Mosquito 5" straight	02
52. Forceps Extraction Upper Incisor	02
53. Forceps Extraction Upper Molars Right	02
54. Forceps Extraction Upper Molars Left	02
55. Forceps Extraction Lower Molars	02
56. Forceps Extraction Lower Roots	02
57. Forceps Extraction Small Lower Roots	02
	

58. Forceps Extraction Lower Premolars	02
59. Forceps Extraction Upper Roots	02
60. Forceps Extraction Childrens Lower Teeth	02
61. Forceps Extraction Childrens Lower Molars/General	02
62. Forceps Extraction Childrens Upper Incisors/Canines	02
63. Forceps Extraction Childrens Upper Molars	02
64. Forceps Extraction Childrens Upper General	02
65. Amalgam Plugger Blacks 0/1	04
66. Luxation Kit	
67. Ceramicolor Probe No 6	06
68. Margin Trimmer 15-11	03
69. Placer Calcium Hydroxide 15-90	04
70. Gingival Cord Packer Yardley 15-66-6	03
71. Root Canal Spreader Heat Carrier Anterior	02
72. Root Canal Spreader Heat Carrier Posterior	02
73. Periosteal Elevator Prichard	02
74. Periosteal Elevator Molt	02
75. Periosteal Elevator Fine	02
76. Periosteal Elevator Howard	02
77. Forceps Tissue Sempkin-Taylor Straighy 12.5cm	02
78. Retractor tissue Austin	02
79. Retractor Tongue and Cheek University of Minnesota	02
80. Needle Holder Mayo Hegar 16cm	02
81. Forceps Halsted Mosquito Curved 12cm	02
82. Forceps Halsted Mosquito Straight 12cm	02
83. Tray Dental Instrument Unperforated 28 x 18 cm	06
84. Mirror Handles Round Stainless Steel	10
85. Mirror Heads No 4 plane (12)	06
86. Explorer single Ended EXS 6	02
87. Explorer Single Ended EXS 6A	02
88. Matrix System Intro	01
89. Scissors Straight 5" Sharp/Sharp	02
90. Scissors Straight Crown Bee Bee No 12	02
91. Scissors Curvedt Crown Bee Bee No 9	02
92. Syringe Dental Cartridge S/S 2.2 ml	02
93. Amalgam Carrier 5X Hampel Complete	02
94. Mortar & Pestle Glass 2 " Dia.	02
95. Dappen Dish Glass Clear	06
96. Glass slab	02
97. Spatula mixing filling material	02
98. Mixing Pad reuseable	02

TECHNICAL EVALUATION CRITERIA FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2021-2022

(Maximum Allocable Marks Score = 70 marks)

Technical Evaluation Criteria for the Purchase of Category A Equipment for FY 2021-2022

Firm Name:	Bid Reference No:

S. No.	Description of Variables	Allocated Points/Marks
A	Product / Manufacturer Evaluation Parameters	
1	Compliance Sheet in attached Viz-a-Viz format / form.	No Marks
1.1	Product General Information	
1.2	Ref. No of item in SBD Schedule of Requirement	
1.3	Name of equipment	
2	Conformance to Specification	
	Fully compliance with the required specifications as per Statement of	
	Requirement. Minor deviations may be accommodated up to 4, subject to the	
	condition that main function and performance in any aspect would not be	
2.1	affected. More than 4 minor deviation will be considered as major deviation	25
	and the bidder will be considered as non-responsive for the quoted item. (One	
	mark for each deviation will be deducted).	
3	Valid Product International Certification	3 (28)
3.1	Certificate of US Food and Drug Administration (USFDA) 510K of the	
	quoted model.	
	Certificate of European community Medical devices directive	Two certificates are
	(CEMDD/IVD98/79EC) (Full Quality Assurance or Product Quality	mandatory having no
3.2	Assurance) for the quoted model issued by IAF accredited body. Certificate	marks while producing
	of conformity, Declaration of Conformity, CE Technical Documentation	three certificates will get
	review, Compliance Report etc will not be considered as CE certificate.	3 marks.
3.3	Certificate of Ministry of health labor and welfare Japan (MHLW) of the	
	quoted model. (Translated English Version)	
4	Manufacturer Performance	
4.1	Valid ISO 13485 Medical Devices Quality Management Systems Certificate	2 (30)
	issued from IAF accredited body.	
	Valid IEC 601-1 / ISO 60601 Certificate (applies to the basic safety and	
4.2	essential performance of medical electrical equipment and medical electrical	2 (32)
	systems for use in the home healthcare environment).	
4.3	Valid OSHAS 18001 / ISO 45001 Occupational Health & Safety Series from	2 (34)
	IAF accredited body.	
4.4	Weightage for local Pakistani manufacturer.	4 (38)
5	After Sale Product / Bidder Local Performance	
	One mark for each after sale satisfactory performance certificate (verifiable)	
	of the firm in last six years, on letter head, signed and stamped for the quoted	
5.1	model or previous provided model of equipment from the public sector	5 (43)
	medical institution of Pakistan. Performance certificate shall be coupled with	
	supply order / purchase order from public sector medical institution.	
	One mark for each after sale satisfactory performance certificate (verifiable)	
	of the firm in the last six years, on letter head for the quoted model or previous	
	provided model of equipment from the teaching level private sector medical	

5.2 i	institution of Pakistan. The hospital must be recognized from Pakistan	4 (47)
	Medical Commission (PMC). Performance certificate shall be coupled with	
	supply order / purchase order from teaching level private sector medical	
	institution.	
6	Warranty	
	Warranty Period of three years both with spare parts and services & Next two-	No marks, being
	year services only without parts, from the date of Installation /	Mandatory Parameter
	Commissioning. Total score of the Product / Manufacturer Evaluation Parameters	47
	Firm Evaluation Parameters	4/
	Personnel/Human Resource	
	Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical /	
	mechatronics / mechanical / industrial. DAE certificate must be submitted.	1
	(0.5 mark for each certificate)	1
	Graduate Engineer with PEC Registration in electrical / electronics,	
	biomedical / mechatronics / mechanical / industrial. PEC registration card of	3 (4)
	the engineer must be submitted. (1 mark for each Engineer)	3 (4)
	BSc (hons) Electronics / MSc Electronics / B-Tech (hons) in electrical /	
	electronic / biomedical / mechatronics / mechanical / industrial. Degree of BSc	1 (5)
	/ MSc / B-Tech (hons) must be submitted. (0.5 mark for each)	1 (0)
	Factory trained technical staff on the quoted Products. (To be verified from	2 (7)
	the visa and passport). (1 mark for each staff)	()
	Workshop facility Testing/ Calibration tools of Equipment	
1	Availability of workshop in Khyber Pakhtunkhwa to be verified with	No marks, being
2.1	Ownership / Rent Agreement with Owner / Rent Agreement with Company	Mandatory Parameter
]	Name.	
2.2	List of related tools available at workshop. Details shall be submitted with	2 (9)
1	bid. (List Attached in SBD)	
2.3	List of Testing and Calibration tools for the quoted items available at	2 (11)
,	workshop. Details shall be submitted with bid.	
2.4	Detail of Spare parts availability at workshop for the quoted items. Details	2 (13)
5	shall be submitted with bid.	
	Firm Financial Strength	
	Annual Sales tax returns for last four years (0.5 mark for each year).	2 (15)
	Annual Income tax returns for four years (0.5 mark for each year).	2 (17)
	Last two years Audited Balance Sheet Duly attested by Chartered Accountant.	
	Marks will be allocated on the basis revenue annual turnover, 100 M or above	2 (19)
	will be awarded 2 marks in last 3 years. Rs.50 to Rs.99.9 M will be awarded	
	1 mark in last 3 years. Less than Rs.50M will be awarded 0 mark.	
	Firm Registration	
	Firm registration at relevant forum (SECP / Registrar of Firm / FBR).	Mandatory
	Firm registered with DRAP (Drug Regularity Authority of Pakistan) to import	2 (21)
	manufacture of medical devices.	2 (22)
	Valid ISO 9001 Quality Management Certificate of the firm from PNAC	2 (23)
	accredited body.	22
	Total Score of the Firm Evaluation Parameters	23
A+B	Total Score (A + B)	(47+23) = 70

Technical Evaluation Criteria for the Purchase of Category-B Equipment for FY 2021-2022

Firm Name: _____ Bid Reference No: _____

S. No.	Description of Variables	Allocated Points/Marks
A	Product / Manufacturer Evaluation Parameters	
1	Compliance Sheet in attached Viz-a-Viz format / form.	No Marks
1.1	Product General Information	
1.2	Ref. No of item in SBD Schedule of Requirement	
1.3	Name of equipment	
2	Conformance to Specification	
	Fully compliance with the required specifications as per Statement of	
	Requirement. Minor deviations may be accommodated up to 4, subject to the	
	condition that main function and performance in any aspect would not be	
2.1	affected. More than 4 minor deviation will be considered as major deviation	25
	and the bidder will be considered as non-responsive for the quoted item. (One	
	mark for each deviation will be deducted).	(21)
3	Valid Product International Certification	6 (31)
3.1	Certificate of US Food and Drug Administration (USFDA) 510K of the quoted model.	
	Certificate of European community Medical devices directive	One certificate is
	(CEMDD/IVD98/79EC) (Full Quality Assurance or Product Quality	mandatory having no
3.2	Assurance) for the quoted model issued by IAF accredited body. Certificate	marks while producing
	of conformity, Declaration of Conformity, CE Technical Documentation	other two certificates will
	review, Compliance Report etc will not be considered as CE certificate.	get 3 marks each.
3.3	Certificate of Ministry of health labor and welfare Japan (MHLW) of the	
	quoted model. (Translated English Version)	
4	Manufacturer Performance	
4.1	Valid ISO 13485 Medical Devices Quality Management Systems Certificate	2 (33)
	issued from IAF accredited body.	
	Valid IEC 601-1 / ISO 60601 Certificate (applies to the basic safety and	
4.2	essential performance of medical electrical equipment and medical electrical	2 (35)
	systems for use in the home healthcare environment).	
4.3	OSHAS 18001 / ISO 45001 Occupational Health & Safety Series from IAF	2 (37)
	accredited body.	
4.4	Weightage for local Pakistani manufacturer.	4 (41)
5	After Sale Product / Bidder Local Performance	
	One mark for each after sale satisfactory performance certificate (verifiable)	
	of the firm in last six years, on letter head, signed and stamped for the quoted	
5.1	model or previous provided model of equipment from the public sector	4 (45)
	medical institution of Pakistan. Performance certificate shall be coupled with	
	supply order / purchase order from public sector medical institution.	
	One mark for each after sale satisfactory performance certificate (verifiable)	
	of the firm in the last six years, on letter head for the quoted model or previous	
	provided model of equipment from the teaching level private sector medical	
5.2	institution of Pakistan. The hospital must be recognized from Pakistan	4 (49)
	Medical Commission (PMC). Performance certificate shall be coupled with	

	supply order / purchase order from teaching level private sector medical	
	institution.	
6	Warranty	
6.1	Warranty Period of three years both with spare parts and services & Next two- year services only without parts, from the date of Installation / Commissioning.	No marks, being Mandatory Parameter
A	Total score of the Product / Manufacturer Evaluation Parameters	49
В	Firm Evaluation Parameters	
1	Personnel/Human Resource	
1.1	Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. DAE certificate must be submitted. (0.5 mark for each certificate)	1
1.2	Graduate Engineer with PEC Registration in electrical / electronics, biomedical / mechatronics / mechanical / industrial. PEC registration card of the engineer must be submitted. (1 mark for each Engineer)	3 (4)
1.3	BSc (hons) Electronics / MSc Electronics / B-Tech (hons) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. Degree of BSc / MSc / B-Tech (hons) must be submitted. (0.5 mark for each)	1 (5)
2	Workshop facility Testing/ Calibration tools of Equipment	
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company	No marks, being Mandatory Parameter
	Name.	
2.2	List of related tools available at workshop. Details shall be submitted with bid. (List Attached in SBD)	2 (7)
2.3	List of Testing and Calibration tools for the quoted items available at workshop. Details shall be submitted with bid.	2 (9)
2.4	Detail of Spare parts availability at workshop for the quoted items. Details shall be submitted with bid.	2 (11)
3	Firm Financial Strength	
3.1	Annual Sales tax returns for last four years (0.5 mark for each year).	2 (13)
3.2	Annual Income tax returns for four years (0.5 mark for each year).	2 (15)
3.3	Last two years Audited Balance Sheet Duly attested by Chartered Accountant. Marks will be allocated on the basis revenue annual turnover, 100 M or above will be awarded 2 marks in last 3 years. Rs.50 to Rs.99.9 M will be awarded 1 mark in last 3 years. Less than Rs.50M will be awarded 0 mark.	2 (17)
4	Firm Registration	
4.1	Firm registration at relevant forum (SECP / Registrar of Firm / FBR).	Mandatory
4.2	Firm registered with DRAP (Drug Regularity Authority of Pakistan) to import / manufacture of medical devices.	2 (19)
4.3	Valid ISO 9001 Quality Management Certificate of the firm from PNAC accredited body.	2 (21)
В	Total Score of the Firm Evaluation Parameters	21
A+B	Total Score (A + B)	(49 + 21) = 70

Technical Evaluation Criteria for the Purchase of Category C and D Items for FY 2021-2022

Firm Name: _____ Bid Reference No: _____

S. No.	Description of Variables	Allocated Points
A	Product Evaluation Parameters	
1	Name of equipment	
2	Conformance to the specification subject to the clearance on Sample test	
	Total compliance with specification given in statement of Requirement subject	
2.1	to the clearance on sample test by the Inspection Committee.	40
	Excellent Sample	
	Total compliance with specification given in statement of Requirement subject	
2.2	to the clearance on sample test by the Inspection Committee.	30
	Good Sample	
	Total compliance with specification given in statement of Requirement subject	
2.3	to the clearance on sample test by the Inspection Committee.	15
	Satisfactory Sample	
	Sample rejected by inspection committee or low-quality sample provided, the	
2.4	firm will be considered as non-responsive for the quoted item and no marks	0
	will be awarded.	
3	Manufacturer Performance	
3.1	Valid CE Certificate of the manufacturer for the quoted items.	2 (54)
3.2	Valid FDA for the quoted items.	2 (56)
3.3	Valid JIS / MHLW of the manufacturer for the quoted items.	2 (58)
3.4	Valid ISO 9001 Quality Management Certificate from PNAC accredited body.	2 (60)
	Certificate from IAF accredited body for imported items.	
	Valid ISO 14001 Environmental Certificate from PNAC accredited body. (The	
3.5	certificate must be issued to the manufacturer plant in case of local	2 (62)
	manufacturer). Certificate from IAF accredited body for imported items.	
4	After Sale Past Performance	
	One mark for each after sale satisfactory performance certificate (verifiable) of	
	the firm on letter head, signed and stamped from the public sector medical	
4.1	institution / hospital for the quoted item. Performance certificate shall be	6 (46)
	coupled with supply order / purchase order from public sector medical	
	institution.	
	One mark for each after sale satisfactory performance certificate (verifiable) of	
	the firm on letter head of private medical institution / hospital for the quoted	
	item. The hospital must be recognized from Pakistan Medical Commission	- ()
4.2	(PMC). The satisfactory performance certificate of non-recognized institution	6 (52)
	from PMC will not be considered. Performance certificate shall be coupled	
	with supply order / purchase order from teaching level private sector medical	
	institution.	
5	Warranty	NT 1 1 '
<i>7</i> - 1	Category C	No marks, being
5.1	One-year warranty for instruments and three year for beds & other hospital	Mandatory Parameter
	Supplies with replacement/repair of product.	
	Cotogowy D	No marks, being
5.2	Category D	Mandatory Parameter
3.2		iviandatory Parameter

A+B	Total Score (A+B)	(62+8) = 70	
В	Total Score of the Firm / Bidder Evaluation Parameters		
	Name.		
4.1	Ownership / Rent Agreement with Owner/ Rent Agreement with Company	Mandatory Parameter	
	Availability of office/workshop in Khyber Pakhtunkhwa to be verified with	No marks, being	
4	Office / Workshop facility		
	marks in last 3 years. Less than Rs.20M will be awarded 1 mark.		
	will be awarded 3 marks in last 3 years. Rs.20 to Rs.29.9 M will be awarded 2		
3.4	Marks will be allocated on the basis revenue annual turnover, 30 M or above	3 (8)	
	Last three years Audited Balance Sheet Duly attested by Chartered Accountant.		
3.2	Annual Income tax returns for last two years (1 mark for each year).	2 (5)	
3.1	Annual Sales tax returns for last three years (1 mark for each year).	3	
3	Firm Financial Strength		
	authorized dealer.	-	
2	The bidder will have to give valid proof of being manufacturer / importer /	Mandatory Parameter	
	Category D	No marks, being	
	(Embassy attested authorization for importer is mandatory)	•	
1	The bidder will have to give valid proof of being manufacturer / importer.	Mandatory Parameter	
_	Category C	No marks, being	
В	Firm / bidder Evaluation Parameters		
A	Total score of the Product Evaluation	62	
	replacement.		
	One-year warranty for bedding clothing & other hospital supplies with		

Technical Evaluation Criteria for the Purchase of Category E items for FY 2021-22

Firm Name: ______ Bid Reference No: _____

S. No.	Description of Variables	Allocated Points
A	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	Fully compliance with the required specifications as per Statement of Requirement.	25
3	Manufacturer Performance	
3.1	Valid CE Certificate of the manufacturer for the quoted items.	4 (29)
3.2	Valid ISO 9001 Quality Management Certificate from PNAC accredited body. Certificate from IAF accredited body for imported items.	4 (33)
3.3	Valid ISO 14001 Environmental Certificate from PNAC accredited body. (The certificate must be issued to the manufacturer plant in case of local manufacturer). Certificate from IAF accredited body for imported items.	4 (37)
4	After Sale Past Performance	
4.1	One mark for each satisfactory performance certificate (verifiable) of the firm on letter head or signed and stamped from the public sector organization for the quoted item/brand. Performance certificate shall be coupled with supply order / purchase order. Performance certificate shall be coupled with supply order / purchase order. Supply Order / Purchase Order / Delivery challan will not be considered as satisfactory performance certificate.	10 (47)
4.2	One mark for each satisfactory performance certificate (verifiable) of the firm on letter head of private sector organization for the quoted item/brand. Performance certificate shall be coupled with supply order / purchase order. Performance certificate shall be coupled with supply order / purchase order. Supply Order / Purchase Order / Delivery challan will not be considered as satisfactory performance certificate.	8 (55)
5	Warranty	
5.1	Warranty Period of three years both with spare parts and services. Compressor warranty must be five years.	No marks, being mandatory parameter
A	Total score of the Product Evaluation	55
В	Firm / bidder Evaluation Parameters	
1	The bidder will have to give valid proof of being manufacturer / importer / authorized dealer.	No marks, being mandatory parameter
2	Firm Financial Strength	
2.1	Annual Sales tax returns for last 3 years (1 mark for each year).	3
2.2	Annual Income tax returns for last 3 years (1 mark for each year).	3 (6)
2.3	Last three years Audited Balance Sheet Duly attested by Chartered Accountant. (1 mark for each year). Marks will be allocated on the basis revenue annual turnover, 20 M or above will be awarded 3 marks in last 3 years. Rs.10 to Rs.19.9 M will be awarded 2 marks in last 3 years. Less than Rs.10 M will be awarded 1 mark.	3 (9)

3	Human Resources	
3.1	Simple technician with a certificate / diploma. (1 mark for each certificate)	2 (11)
3.2	Diploma of Associate Engineer (DAE) in electrical / electronic / mechatronics or	4 (15)
	relevant field. DAE certificate must be submitted. (2 marks for each certificate)	
4	Office / Workshop facility	
	Availability of office/workshop in Khyber Pakhtunkhwa to be verified with	No marks, being
4.1	Ownership / Rent Agreement with Owner/ Rent Agreement with Company	mandatory parameter
	Name.	
В	Total Score of the Firm / Bidder Evaluation Parameters	15
A+B	Total Score (A+B)	(55+15) = 70

Technical Evaluation Criteria for the Purchase of Category F Items for FY 2021-22

Firm Name: _____ Bid Reference No:

S. No.	Description of Variables	Total points
A	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	
	Fully compliance with the required specifications as per statement of requirement. Up	
2.1	to a maximum of four Minor deviations may be accommodated subject to the	25
	condition that main function and performance in any aspect would not affect.	
	However, up to four marks will be deducted.	
2.2	Full load test report from manufacturer for the quoted model.	3 (28)
		3 (20)
3.1	Product / Firm Certification Authorization certificate from the manufacturer if the bidder is not a manufacturer.	No marks,
3.1	Authorization certificate from the manufacturer if the oldder is not a manufacturer.	being
3.2	Registration with PEC in Codes ME03 & ME04. 3 Marks for ME 03 & ME 04	6 (34)
3.2	respectively for each code.	0 (34)
3.3	Valid CE certificate for the quoted model	3 (37)
4	After Sale Product Local Performance	3 (31)
	One marks for each satisfactory performance certificate (verifiable) of the firm on	
4.1	letter head, signed and stamped from the public sector organization for quoted capacity	6 (43)
	generator. Performance certificate shall be coupled with supply order / purchase order	,
	from public sector organization.	
	One mark for each satisfactory performance certificate (verifiable) of the firm on letter	5 (40)
4.2	head of private organization for the quoted capacity generator. Performance certificate	6 (49)
	shall be coupled with supply order / purchase order from private sector organization.	
5	Manufacturer Performance	
5.1	Valid ISO 14001 or equivalent (Environmental Certificate).	2 (51)
5.2	Valid ISO 9001 Quality management Certificate.	2 (53)
5.3	Comprehensive Warranty of 12 months (irrespective of running hours) with parts and	No marks,
	services from date of commissioning.	being
A	Total score of the Product Evaluation Parameters	53
В	Firm Evaluation Parameters	
1	Personnel/Human Resource	
1.1	Diploma of Associate Engineer (DAE) in electrical / electronic / mechatronics /	2
	mechanical / industrial. (1 mark for each DAE)	
1.2	Graduate Engineer with PEC Registration in electrical / electronic / mechatronics /	4 (6)
	mechanical / industrial. (2 marks for each engineer)	
2	Workshop facility / Mobile van / Training	
2.1	Fully Functional workshop at Peshawar.	3 (9)
2.2	Mobile after sales van in Khyber Pakhtunkhwa for on sight repair.	2 (11)
	Firm Financial Strength	<u> </u>
3		
3.1	Annual Sales tax returns for last two years (1 mark for each year)	2 (13)

3.3	Last two-year Audited Balance Sheet Duly attested by Chartered Accountant. Marks will be allocated on the basis revenue annual turnover, 50 M or above will be awarded 2 marks in last 2 years. Rs.10 to Rs.49.9 M will be awarded 1 mark in last 2 years.	2 (17)
В	Total Score of the Firm Evaluation Parameters	17
A+B	Total Technical Score	(53 + 17) = 70

$Technical\ Evaluation\ Criteria\ for\ the\ Purchase\ of\ Category-G\ items\ for\ FY\ 2021-2022$

Firm Name: _____ Bid Reference No: _____

S. No.	Description of Variables	Allocated Points
A	Product / Manufacturer 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 of fabrication	
2.1	Fully compliance with the required specifications as per Statement of	25
	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.	
3	Manufacturer Performance	
3.1	Valid ISO 9001 Quality Management Certificate.	2 (27)
3.2	Valid CE Certificate for the quoted item.	2 (29)
4	After Sale Product Local Performance	· · · · · ·
4.1	One mark for each after sale satisfactory performance certificate (verifiable) of	
	the firm on letter head or signed and stamped from the public sector organization	10 (39)
	/ hospital for the quoted item. Performance certificate shall be coupled with	` ,
	supply order / purchase order. Supply Order / Purchase Order / Delivery challan	
	will not be considered as satisfactory performance certificate.	
	One mark for each after sale satisfactory performance certificate (verifiable) of	
4.2	the firm on letter head of private sector organization / hospital for the quoted	8 (47)
	item. Performance certificate shall be coupled with supply order / purchase order.	` ,
	Supply Order / Purchase Order / Delivery challan will not be considered as	
	satisfactory performance certificate.	
5	Warranty	
	Warranty Period of three years both with spare parts and services & Next two-	No marks, being
5.1	year services only without parts, from the date of Installation / Commissioning.	Mandatory
	Two Years battery warranty.	•
A	Total score of the Product / Manufacturer Evaluation Parameters	47
В	Firm Evaluation Parameters	
1	Personnel/Human Resource	
1.1	Diploma of Associate Engineer (DAE) in electrical / electronic / mechatronics /	
	mechanical / industrial. DAE certificate must be submitted. (1 mark for each	2
	certificate)	
1.2	Graduate Engineer with PEC Registration in electrical / electronic /mechatronics	
	/ mechanical / industrial. PEC card of the engineer must be submitted. (2 marks	4 (6)
	for each certificate)	
2	Workshop facility Testing/ Calibration tools of Equipment	
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership	No marks, being
	/ Rent Agreement with Owner / Rent Agreement with Company Name.	Mandatory
2.2	Availability of workshop at National level to be verified with Ownership / Rent	2 (10)
2.2	, I	` /
2.2		
2.2	Agreement with Owner/ Rent Agreement with Company Name. List of Tools, Testing and Calibration tools for the quoted items available at	2 (12)

2.4	Detail of Spare parts availability at workshop for the quoted items (inventory	2 (14)
	list). Details shall be submitted with bid.	
3	Firm Financial Strength	
3.1	Annual Income tax returns for last 3 years (1 mark for each year).	3 (16)
3.2	Last Two years Audited Balance Sheet Duly attested by Chartered Accountant (2	4 (18)
	mark for each year). Marks will be allocated on the basis revenue annual turnover,	
	50 M or above will be awarded 4 marks in last two years. Rs.25 M to Rs.49.9 M	
	will be awarded 2 marks in last 2 years. Rs.10 M to Rs.24.9 M will be awarded 1	
	mark.	
4	Firm Registration	
4.1	Firm must be registered with PEC (Pakistan Engineering Council) in	No marks, being
	category EE11. (For solar systems)	Mandatory
В	Total Score of the Firm Evaluation Parameters	18
A+B	Total Score (A + B)	(47+18) = 70

The bidders will quote the technical bid quotation on the format / form given below.

Technical Bid Quotation Form / Vis-à-vis Format for Category A&B

Name of Equipment / Item:	
Model:	
Make:	
Country of Origin:	
Category of equipment / item:	
S. No in SBDs:	
Comparative of Required	Specification and Quoted Specification
Required Specification	Quoted Specification of the bidder
(Procurement Cell DGHS)	

Explanation of the quotation form:

- 1. All the bidders must submit the quotation for category A and B items on the above form.
- 2. All the bidders must make a comprehensive sheet with all the required specifications. (Compare all the quoted specification to the required specification).
- 3. Attached the supported documents i.eBroucher / Catalogue clearly highlighted the specifications mention in the technical quotation.
- 4. The successful bidders shall provide complete technical manual and operation manual (soft and hard) to the incharge of central workshop Peshawar, Procurement Cell and all regional workshops.

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: = $[86 \div 105] \times 30 = 24.57$ Marks
- If the next higher quoted price of the same item is Rs. 130/-, the marks obtained will be: = [$86 \div 130$] x 30 = 19.84 Marks
 - And so on.

Details of tools

S.No	Item name
1.	Analog and Digital multimeter
2.	Precision screwdrivers
3.	Hammers
4.	Tape measure
5.	Pliers
6.	Mini small ratchet wrench
7.	Straight screwdriver
8.	Phillips screwdriver
9.	Screwdriver handle & heads
10.	Allen keys sets all sizes
11.	Cutting Saw
12.	Spanner
13.	Digital electrical test pen
14.	Flexible rule
15.	Insulation tape
16.	Drill machine
17.	Protective Gloves
18.	Protective Caps
19.	Soldering wire
20.	Soldering Machine
21.	Heat gun
22.	Oscilloscope digital/Analog
23.	Clamp meter
24.	Ratchet set large
25.	Variation power supply
26.	Level
27.	Network cable tester
28.	Earth meter
29.	Smart tool kit for field work

Total Marks =2 Firm having minimum 15 tools will be awarded 1 mark Firm having 15-29 tools will be awarded 2 marks

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 (Template for information only, shall be signed with the successful Bidders only)

BID FORM -1

BID COVER S HEET

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.	Please indicate whether the firm is: a. Manufacturer, or b. Importer, or c. Both Manufacturer and importer. d. Authorized Agent/Dealer/Distributor For various items Offered for this bidding competition.	
2.	Please indicate the category/ies under which the Firm is applying for bidding a Machinery & Equipment b Instrument/ other Hospital supplies. c General items. d Office equipment e Bedding & Clothing etc f others	
3.	Please provide names, attested copies of CNICs, two recent attested photographs, valid street addresses in Pakistan, all landline and mobile phone numbers of: a Owner/Proprietor of the Firm. b Managing Director / CEO of the Firm; c Focal person officially made responsible and authorized by the Firm for day-to-day official Correspondence with Procurement cell DGHS. d (Please provide clear, legible and visible attested photocopies of all the requisite items mentioned items)	
4.	Please provide the following valid information Regarding applicant Firm: Complete street address of the: a. Head Office b. Main warehouse; and c. Valid & working official Landline Phone and d. Fax Numbers; and e. Mobile phone numbers of the Focal Person registered against his /her CNIC No. And name; and f. Valid and functional Email address; g. Official Website address /es .	

5.	 a. Please provide in original the bid security instrument along with the Financial Proposal in the sealed envelope in the form of valid Call Deposit Receipt / Bank Draft / Bank Guarantee of the requisite amount from a scheduled Bank of Pakistan in the name of Director General Health Services, Peshawar. Non- provision of bid Security shall render the bid as non -responsive. b. However, please provide an affidavit on judicial stamp paper of appropriate face value in the sealed Envelope of the technical propos al to the effect that the bid security of the required amount (without mentioning the amount of bid security) has been ins ide the sealed envelope of the financial bid except where flat rates in bid security has been demanded by the Directorate General Office.
6.	Please provide attested copies of the following Tax related mandatory documents: a National Tax Number (NTN) of the Firm (FTN) for Income Tax b Last year Income Tax Return of the Firm; and c Sales Tax Registration Certificate of the Firm; and Certificate of Professional Tax
7.	In case of being manufacturer, the Firm should provide attested copies of the following mandatory documents also: a 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: Valid Authorization Certificate for the quoted items, duly attested by the Embassy concerned.

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: [Nameand address of Procuring Agency]

Dear Sir/Madam,

Having examined the bidding documents, including Addenda Nos. [insertnumbers& Date ofindividual Addendum], the receipt of which is hereby acknowledged, we, the undersigned, offer tosupply 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) TheBid 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/BSD.

4) The undersigned are also eligible Bidders within the meaning of the Standard

Bidding Documents.

5) The undersigned are solventand competent to undertake the subject contract under

the Laws of Pakistan. Furthermore neither our principle/Manafuracture is/are insolvent.

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) The undersigned has successfully completed all contracts assigned and has not

violated the previous contract agreement with this department.

10) 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 Supp	olier]

Bid Form-4-A

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

Price Schedule format for Financial Bid of Machinery & Equipment, Instruments & other Hospital supplies etc. for the year 2021-22.

1. <u>In case of Machinery & Equipment etc</u>

S.No	Serial No. of quoted	Name of the item	Number of	Rate	Total Price
	item in Statement of		Items	offered per	Pak Rupees
	Requirement of the		(Single	unit Rs.	
	DSBs 2010-21		Unite)	Inclusive of	
				all taxes	

Bid Form 4-B: <u>Technical Bid Quotation Form / Vis-à-vis</u>

Name of Equipment / Item:					
Model:					
Make:					
Country of Origin:					
Category of equipment / item:					
S. No in SBDs:					
Comparative of Required Specification and Quoted Specification					
Required Specification (Procurement Cell	Quoted Specification of the bidder				
DGHS)	-				
DGHS)					
DGHS)					
DGHS)					

Bid Form-5

INTEGRITY PACT (on Judicial Stamp Paper)

<u>Declaration of Fees, Commission and Brokerage etc Payable by Manufacturers, Importers for</u> the supply of Machinery & Equipment, Instrument and other Hospital supplies etc. 2021-22.

- 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

That notwithstanding any rights and remedies exercised by GoKP in this regard, [Nameof 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

RATE CONTRACT AGREEMENT (Template) (For successful bidders) THIS RATE CONTRACT AGREEMENT is made and agreed today on _____ day of [Month], 2021-22 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 Mr._____ Designation 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 (Name of equipment, Country of origin along with model at Rs.) 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

WHEREAS the Supplier shall supply all the goods ordered by the Purchasing Agency to the latter in the quantity as mentioned in the supply order to be issued by the Purchasing Agency within the timeframe as mentioned in bidding Documents i.e within 90 days from the date of issuance of supply order by the Purchasing Agency for items to be imported items while 60 days for locally manufactured items; Now, therefore, both the parties mutually agree to enter into this contract agreement as under:

Agreement, from the Supplier at the sole discretion of the individual Purchasing Agencies; and

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 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. The successful bidders shall provide complete technical manual and operation manual to the in charge of central workshop Peshawar all regional workshops.
- 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 2020-21 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 2021.
- 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%) 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 till warranty period.
- 15. WARRANTY: The supplier shall provide warranty on prescribed form in Bidding Documents 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: For delay in supply from one day up to fifteen days, a lump sum penalty amounting to three percent (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. 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. 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 Forfeiting the earnest money and performance guarantee of the Supplier related to this contract agreement; and 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 Initiating the process for and recommending for blacklisting of the Supplier under the rules with the Agencies; and 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.

19. INDEMNITY:

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. 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:

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. 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, Health Department	Stamp:
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:
CNIC No	CNIC No