

Government of Khyber Pakhtunkhwa Health Department

Bid Solicitation Documents (BSD) For National Competitive Bidding (NCB)

For

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC.

FOR THE YEAR 2020-21.

PROCUREMENT CELL (DGHS-KP)

Revised BSD after Pre-Bids (October 2020)

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) as well International Competitive Bidding (ICBs) Rule 41(g) KPPRA Rules 2014. These SBDs are prepared for Rate Contract under Government of Khyber Pakhtunkhwa District Govt Rules of Business 2015, 2nd Schedule Rule 3 (2), and Serial No.11 (Health) Sub-rule xiii for procurement of Equipment

In order to simplify the preparation of bidding documents for all procurement, the Bidding Documents are grouped in two parts based on provisions, which would remain the same for all the related procurements and that which are specific for each procurement Provisions, which are intended to be used un-changed are in **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

Instructions to Bidders

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

	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. 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;
	1.2	(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. All goods and related services to be supplied under the contract
	3.1	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 of Bidding document	7.1	At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by an interested Bidder, may modify the bidding documents by amendment.
	7.2	All interested bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding On them.
	7.3	In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.

B. Preparation of Bids

8. Language of Bid		The hid prepared by the Didder, as well as all common address and
0. Language of Diu		The bid prepared by the Bidder, as well as all correspondence and
		documents relating to the bid exchanged by the Bidder and the
		Procuring agency shall be written in the language specified in the
		Bid Data Sheet. Supporting documents and printed literature
	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.
	9.1	b) Documentary evidence established in accordance with ITB
	7.1	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

		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 Establishing Bidder's	13.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its Qualifications to perform the contract if its bid is accepted.
Eligibility and Qualification	13.2	The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined Under ITB Clause 3.
	13.3	The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted, shall establish to the Procuring agency's satisfaction: a) That, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country; b) That the Bidder has the financial, technical, and production capability necessary to perform the contract; c) That, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts- stocking obligations prescribed in the Conditions of Contract and/or technical Specifications; and d) That the Bidder meets the
		and/or technical Specifications; and d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.
14. Documents Establishing Goods' Eligibility and Bidding	14.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services, which the Bidder proposes to Supply under the contract.
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.

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16. Period of Validity of Bids	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 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. 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.

C. Submission of Bids

18. Sealing and	18.1	The Bidder shall seal the original and each copy of the bid in separate
Marking of Bids		envelopes, duly marking the envelopes as —ORIGINAL and
		—COPY. The envelopes shall then be sealed in an Outer envelope.
	18.2	The inner and outer envelopes shall:
	10.2	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. Deadline for	19.1	Bids must be received by the Procuring agency at the address
Submission of Bids		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 as extended.
	19.3	In order to avoid the delays, the Procuring agency will hold a prebid
		meeting under section 24 (6) of KPPRA Act 2012 as per details
		given In Bid Data Sheet. The purpose of the pre-bid meeting is to
		clarify the functional requirements of the Procuring agency and the
		feedback From the bidders so offered. This is in line with the general
		principles of procurement as enunciated under section 03 of the
		KPPRA Act 2012.
20. Late Bids	20.1	Any bid received by the Procuring agency after the deadline
		For submission of bids prescribed by the Procuring agency pursuant
		to ITB Clause 19 will be rejected and returned unopened to the
		Bidder.
21. Modification	21.1	The Bidder may modify or withdraw its bid after the bid's
And		submission, provided that written notice of the modification,
Withdrawal Of		including substitution or withdrawal of the bids, is received by the
Bids		Procuring agency prior to the deadline prescribed for submission of Bids.
	21.2	The Bidder's modification or withdrawal notice shall be prepared,
		sealed, marked, and dispatched in accordance with the provisions of
		ITB Clause 18 by a signed confirmation copy, postmarked no later
		Than the deadline for submission of bids.
	21.3	No bid may be modified after the deadline for submission of bids.
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21.4	No bid may be withdrawn in the interval between the deadline for
	submission of bids and the expiration of the period of bid validity
	Specified by the Bidder on the Bid Form. Withdrawal of a bid during
	this interval may result in the Bidder's forfeiture of its bid security,
	Pursuant to the ITB Clause 15.7.

D. Opening and Evaluation of Bids

22.0	1 00 1	Torn 10
22. Opening of Bids by the	22.1	The Procuring agency will open all bids in the presence of bidders'
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'
Agency		representatives Who are present shall sign a register evidencing their
		attendance.
	22.2	
	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
		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	The Procuring agency will examine the bids to determine whether
Examination		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.
	24.4	Prior to the detailed evaluation, pursuant to ITB Clause 25 the
	2	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.
		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	23.1	have been determined to be substantially responsive, pursuant to ITB
of Bids		Clause 24.
	25.2	
	25.2	The Procuring agency's evaluation of a bid will be on delivered duty
	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
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		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs
		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs b. Delivery schedule offered in the bid;
		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs
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		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs b. Delivery schedule offered in the bid; c. Deviations in payment schedule from that specified in the Special Conditions of Contract; d.The cost of components, mandatory spare parts, and service; e.The availability Procuring agency of spare parts and after – sales
		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs b. Delivery schedule offered in the bid; c. Deviations in payment schedule from that specified in the Special Conditions of Contract; d.The cost of components, mandatory spare parts, and service; e.The availability Procuring agency of spare parts and after – sales services for the equipment offered in the bid;
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		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs b. Delivery schedule offered in the bid; c. Deviations in payment schedule from that specified in the Special Conditions of Contract; d.The cost of components, mandatory spare parts, and service; e.The availability Procuring agency of spare parts and after – sales services for the equipment offered in the bid; f. The projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and/or. g. Other specific criteria indicated in the Bid Data Sheet
		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. The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4: a. Incidental costs b. Delivery schedule offered in the bid; c. Deviations in payment schedule from that specified in the Special Conditions of Contract; d.The cost of components, mandatory spare parts, and service; e.The availability Procuring agency of spare parts and after – sales services for the equipment offered in the bid; f. The projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and/or.

	25.4	For factors retained in the Bid Data Sheet pu or more of the following quantification met	
		detailed in the Bid Data Sheet: a.Incidental costs provided by the bidder wil agency to the delivered duty paid (DD destination. B.Delivery schedule.	PP) price at the final
		1. The Procuring agency requires that the go Invitation for Bids shall be delivered at the t	
		Schedule of Requirements, which will be delivery—adjustment will be calculated for percentage, specified in the Bid Data Sheet each week of delay beyond the base, and the bid price for evaluation. No credit shall be good	for bids by applying a t, of the DDP price for his will be added to the
		II. The goods covered under this invitation (shipped), within an acceptable range of Schedule of Requirement. No credit will deliveries, and bids offering delivery bey treated as non-responsive. Within this	weeks specified in the ll be given to earlier ond this range will be
		adjustment per week, as specified in the I added for evaluation to the bid price of bids than the earliest delivery period specified in	Bid Data Sheet, will be offering deliveries later
		Requirements. OR III.The goods covered under this invitatio delivered in partial shipments, as specified	•
		Requirements. Bids offering deliveries ear specified deliveries will be adjusted in the to the bid price a factor equal to a percentage Data Sheet, of DDP price per week of variations.	evaluation by adding e, specified in the Bid
		delivery schedule. Specified under the relevant provision Specifications to be considered responsive.	. Evaluation shall be
		based on the cost per unit of the actual p offered in the bid, and adjustment will be a using the methodology specified in the Bid Technical Specifications.	dded to the bid price
		h. Specific additional criteria indicated in th in the Technical Specifications.	
		The relevant evaluation method shall be determined shall be determ	
Alternative	25.4	Sheet and/or in the Technical Specifications Merit Point System:	•
Antel matrice	23.4	The following merit point system for weigh	ving evaluation factors
		can be applied if none of the evaluation r	_
		above has been retained in the Bid Data	
		points allocated to each factor shall be spe	
		Sheet.	
		[In the Bid Data Sheet, choose from the rang	ge of]
		Evaluated price of the goods	60 to 90
	1	Cost of common list spare parts	0 to 20

		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 contagency on any matter relating to its bid, from the Opening to the time the contract is awarded. If the bring additional information to the notice of the Proshould do so in writing.	e time of the bid Bidder wishes to
	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.	0 0

E. Award of Contract

		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	20.1	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.

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 Security	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.
<u>L</u>	1	1

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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	1	

General Conditions of Contract

1 Dofiniti	1.1	To this Contract the fellowing to 1 11 1 1 to 1 1 1
1. Definitions	1.1	In this Contract, the following terms shall be interpreted d as indicated: a——The Contract means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein. b.—The Contract Price means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations. c.The Goods means all of the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Procuring agency under the Contract. d.The Services means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract. e.GCC means the General Conditions of Contract contained in this section. f.SCC means the Special Conditions of Contract. g.The Procuring agency means the organization purchasing the Goods, as named in SCC. h. The Procuring agency's country is the country named in SCC. i.The Supplier means the individual or firm supplying the Goods and Services under this Contract. j.The Project Site, where applicable, means the place or places named in SCC. k.Day means calendar day.
		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.
	3.1	All Goods and Services supplied under the Contract shall have their Origin in the countries and territories eligible under the rules and Further elaborated in the SCC.
		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.
		The origin of Goods and Services is distinct from the nationality of
3. Country of Origin	3.3	the Supplier.

		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 latest issued by the concerned institution.
		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
	5.3	so required by the Procuring agency.
5. Use of Contract Documents and	3.3	The Supplier shall permit the Procuring agency to inspect the
Information;		Supplier's accounts and records relating to the performance of
Inspection and		the Supplier and to have them audited by auditors appointed by
Audit by the 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
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1		agency and returned to the Supplier not later than thirty (30) days
		agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance
7. Performance		agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations,

		The Decouring agency on its managements/in1-11 1 (1 11)
	8.1	The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be Conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at
		the Goods' final destination. If conducted on the premises of the
		Supplier or its subcontractor(s), all reasonable facilities and
8. Inspections and Tests	8.2	assistance, including access to drawings and production data, shall
Tests	0.2	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.
	0.5	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 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.
		The Supplier in accordance with the terms specified in the Schedule of Requirements shall make delivery of the Goods. The details of shipping and/or other documents to be furnished by the
10. Delivery and	10.1	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.	
13. Incidental		The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC: a. Performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. Furnishing of tools required for assembly and / or maintenance of the supplied Goods; c. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties,	
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	
		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 Spara Danta	14.1	the spare parts, if requested.	
14. Spare Parts	14.1	the spare parts, if requested.	

		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	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in t he Contract.
	16.2	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in t he Contract. Payments shall be made promptly by the Procuring agency, but in no
16. Payment		by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim
16. Payment	16.3	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in t he Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier
16. Payment		by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier The currency of payment is Pak. Rupees.
16. Payment	16.3	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier The currency of payment is Pak. Rupees. Prices charged by the Supplier for Goods delivered and Services
16. Payment	16.3	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in t he Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier 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
16. Payment	16.3	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier 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
16. Payment 17. Prices	16.3	by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in t he Contract. Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier 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

		The Dressyring agency may at any time by a written and an increase
		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.
		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
40.61	10.2	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	10.1	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
	22.1	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
	22.2	performance, with or without liquidated damages, in which case the
	22.2	extension shall be ratified by the parties by amendment of Contract.
		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	22.2	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
		that its delay in performance or other failure to perform its
25. Force Majeure	25.1	obligations under

1		For purposees of this clause, —Force Majeure means an event
		beyond the control of the Supplier and not involving the
		11
		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
		termination will not prejudice or affect any right of action or remedy,
26. Termination for	26.1	which has accrued or Will accrue thereafter to the Procuring agency.
Insolvency	20.1	
		The Procuring agency, by written notice sent to the Supplier,
		may terminate the Contract, in whole or in part, at any time
		for its Convenience. The notice of termination shall specify that
		termination be for the Procuring agency's convenience, the
		extent to which performance of the Supplier under the Contract is
		terminated, and the date upon which such termination becomes
	27.1	effective.
		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		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,
		but are not restricted to, conciliation mediated by a third party,
28. Resolution of	28.2	adjudication in an agreed manner and/or arbitration.
Disputes	28.2	aujudication in an agreed manner and/or aroltration.

		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.		



Government of Khyber Pakhtunkhwa Health Department Procurement Cell (DGHS)

Standard Bidding Documents

For National Competitive Bidding Pakistan

For

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS& OTHER HOSPITAL SUPPLIES ETC FOR THE YEAR 2020-21.

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

NOTE

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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<u>Part Two</u> 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

PROCUREMENT CELL, DIRECTORATE GENERAL HEALTH SERVICES KHYBER PAKHTUNKHWA, PESHAWAR.

SELECTION & RATE CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS, GENERATORS & OTHER HOSPITAL SUPPLIES, ETC FOR F.Y 2020-21.

- 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. 2020-21.
- 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 ,October 12, 2020**, The Bidding Documents may be downloaded from the following official websites:, www.healthkp.gov.pk, www.dghskp.gov.pkand www.kppra.gov.pk.
- The bidders are required to submit their inputs/reservations on Bidding Documents including Specifications, Criteria etc. to Procurement Cell in writing before 25th September 2020, as category wise pre-bid meetings with the interested bidders will be held on 29th September 2020 for category-A equipment, 30th September 2020 for category-B equipment's and 1st October 2020 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, <u>Monday, October 12, 2020</u>, 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 will 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.	Procurement Cell, DGHS 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 2020-21
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 2020-21.
ITB 4.1	Name of Procuring agency.	Procurement Cell, DGHS Peshawar Health Department Government of Khyber Pakhtunkhwa
.ITB 6.1	Procuring agency's address, telephone, Telex, and facsimile, numbers.	Director General Health Services Khyber Pakhtunkhwa Peshawar Tel No: 091- 9210269 Fax No: 091- 9210230 Procurement Cell Office Tel No: 091-9210196 Email: pcdghs@gmail.com
ITB 8.1	Language of the bid.	English
Bid Price an	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 2021.
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
110 18.2 (0)	ir b title and number.	CONTRACTING FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2020-21.
ITB 19.1	Deadline for bid submission.	10:30 AM Sharp. Monday, October
		12, 2020
ITB 19.3	Pre-Bid meeting with the bidders	The bidders are required to submit
		their inputs/reservations on
		Bidding Documents including
		Specifications, Criteria etc. to
		Procurement Cell in writing before 25 th September 2020.
		A Category wise pre-bid meetings
		with the interested bidders will be
		held on
		1. 29 th September 2020 for
		category-A equipment,
		2. 30 th September 2020 for
		category-B equipment's
		3. 1 st October 2020
		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, October
		12, 2020 General Health Services,
		WarsakRoad, Peshawar.
Bid Evaluati		m p
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.

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.
One option only Delivery schedule. Relevant	Not Applicable
parameters in accordance with Option selected.	
Adjustment expressed as a	Not Applicable
currency of bid evaluation, or adjustment expressed in an amount in the currency of bid evaluation.	
Deviation in payment schedule. Annual	Not Applicable
interest rate.	
Cost of spare parts.	Not Applicable
Spare parts and after sales service facilities	Not Applicable
in the Procuring agency's Country.	
Operating and maintenance costs.	Not Applicable
Performance and productivity of	Not Applicable
Equipment.	
Details on the evaluation method or	As in section on Technical Evaluation of
reference to the Technical Specifications	bids.
Specify the evaluation factors.	Not Applicable
Award Criteria	Section 2 (c)(i)
vard	
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.
	One option only Delivery schedule. Relevant parameters in accordance with Option selected. 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. Deviation in payment schedule. Annual interest rate. Cost of spare parts. Spare parts and after sales service facilities in the Procuring agency's Country. Operating and maintenance costs. Performance and productivity of Equipment. Details on the evaluation method or reference to the Technical Specifications Specify the evaluation factors. Award Criteria

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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. ofthe 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.

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 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/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 i.e. Procurement Cell reserves the rights to reject the quoted items/equipment at any stage before award of contract in case of any deviation from the standard specs.

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.
- 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 anual 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 (if required).

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. 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)	0 4 10 '6 4' 641 1'11
required opecimention (Frocurement Cen Dollo)	Quoted Specification of the bidder
Required Specimenton (Frocurement Cen 20115)	Quoted Specification of the bidder
Required Specification (Frocurement Cen Dolls)	Quoted Specification of the bidder
Required Specification (Frocurement Cen DOIIS)	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.
- 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. <u>Due to Covid-19, it has been decided that Embassy Attested Authorization is acceptable if the previous one is expired. Bidders has to submit proof of apply for embassy attestation along with the previous or expire one in the technical bid.</u>
- All certifications (i.e Manufacturer authorization, ISOs, CE MDD, USFDA, MLHW, and PEC/DRAP) and data/documents shall be valid. T&E committee will carry out the verifications before award of contract and in case of any fraudulent practice; legal action will be taken against the bidder concerned. 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 for the 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. 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 (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	Anesthesia Machine with Cardiac Monitor having two vaporizers	A
2	Argon Laser	A
3	Auto Refractor with Karatometer	A
4	Air Purification System	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	Color Doppler Machine	A
11	CR System (computerized radiography system) with compatible UPS	A
12	Cystoscope flexible set with light source complete	A
13	Dialysis Machine	A
14	Digital OPG X Ray	A
15	Digital Fluoroscopy Unit	A
16	DR system for existing X-ray machines with compatible UPS	A
17	Echo Machine	A
18	Elisa Machine (Reader, incubator shaker and Washer) Programmable with Stabilizer and UPS	A
19	Endoscope Gastro duodenal	A
20	Esophagoscopes instruments set	A
21	ETT Machine	A
22	Fully Automated Chemistry Analyzer with Stabilizer and UPS	A
23	Hematology Analyzer 3 Part differential with Stabilizer and UPS	A
24	ICU Central Station for cardiac monitors	A
25	ICU Ventilator (Neonatal& Pediatric & Adult)	A
26	Laparoscope machine for Gynea /OBS and General	A
27	Mobile C-Arm/ Image Intensifier (Fluoroscopy)	A
28	Mobile X-Ray plant 300 mA/125KV AC & Battery Operated	A
29	Nasopharyngo scope with suction	A
30	Operating Microscope for ophthalmology	A
31	Semi-Automated Chemistry Analyzer with Stabilizer and UPS	A
32	Sigmoido scope with universal lighting	A
33	Sinus Endoscopy set with proof puncture needles	A
34	Slit Lamp	A
35	Transport / Portable Ventilator for Ambulance	A
36	Ultrasound machine (General purpose) within built trolley mounted	A
37	X-Ray Plant 300mA in built or external AVR and UPS	A
38	X-Ray Plant 500mA With inbuilt or external AVR and UPS	A
39	Yag Laser	A

	4 Hour BP Monitoring machine	В
	air Drill with Cylinder/Orthopedic pneumatic drill with cylinders.	В
	autoclave Automatic 100 Liters	В
	Autoclave Automatic 100 Liters Sliding door	В
	Autoclave Automatic 150 Liters	В
	Autoclave Automatic 150 Liters Sliding door	В
	Autoclave Automatic 200 Liters	В
	Autoclave Automatic 200 Liters Sliding door	В
	Automated ESR Analyzer	В
	Automatic Blood Bag Shaker	В
50 A	Automatic Film Processor	В
51 B	Saby Incubator	В
52 B	Saby Suction Machine	В
53 B	Sinocular Microscope	В
54 B	SIPAP	В
55 B	Blood Bag Tube Sealer	В
56 B	Blood Bank Refrigerator / Biological Refrigerator	В
57 C	Centrifuge (Bench Top)	В
58 C	Cervical and Lumbar Traction Table	В
59 C	CPAP	В
60 C	CTG Machine	В
61 D	Defibrillator Period of the Control	В
62 D	Deionizer	В
63 D	Delivery table/ D&C Table	В
64 D	Dental Unit with Chair and regulator (10 KVA)	В
65 D	Dental X-ray	В
66 D	Distillation water Assembly	В
67 D	Ory Heat Sterilizer/ Hot air oven	В
68 E	CCG Machine 12 channels	В
69 E	CCG Machine 3 channels	В
70 E	CCT Machine	В
71 E	EEG 32 Channels	В
72 E	Electric Amalgamator	В
	Electric cautery (Dental)	В
	Electric Ripple mattress	В
	Electric surgical unit Diathermy	В
-	Electro Mechanical Operation Table	В
	Emergency light with single reflector AC/DC Or Examination light AC/DC	В
	MG 4 Channels	В
	ENT workstation (Examination +treatment)	В
-	racture Operation Table with Ortho Traction Attachment	В
	Glucometer	В
	Synae Vacuum Suction Apparatus/vacuum extractor with trolley	В
	lead Light with Cool Illumination	В

84	HFNC	В
85	Humidifier	В
86	Hydralic Operation Table	В
87	Indirect Ophthalmoscope	В
88	Infant Warmers (Radiant Warmer)	В
89	Infra-Red Radiator Large	В
90	Infra-Red Radiator Small	В
91	Infusion pump	В
92	Laboratory Incubator	В
93	Microtome Machines	В
94	Mini Autoclave For dental	В
95	Nebulizer	В
96	Ophthalmoscope	В
97	Ophthalmoscope + Retinoscope Rechargeable	В
98	Orthopedic Drill Battery operated	В
99	Oxygen Concentrator	В
100	Paraffin Wax Bath For Foot	В
101	Paraffin Wax Bath For Hand	В
102	PH Meter	В
103	Phototherapy Unit	В
104	Point of care Testing(POCT) analyzer	В
105	POP cutter / Plaster Cutting Saw	В
106	Portable lamps AC/DC or Emergency light AC/DC	В
107	Pulse Oximeter	В
108	Pure Tone Audiometer	В
109	R.O water purification plant for dialysis Machine	В
110	Resuscitation Trolley / ICU Trolley / CPR Trolley	В
111	Shadow less lamp (Ceiling type) or Ceiling OT light for minor OT or Ceiling OT light for post morterm	В
112	Sonic Aid Machine/Fetus Heart Detector	В
113	Spirometer/ Pulmonary function unit	В
114	SS Filtration Assembly	В
115	Suction machine Heavy Duty/ Electric suction Machine	В
116	Syringe Pump	В
117	Therapeutic Ultrasound	В
118	Transcutaneous Electrical Nerve Stimulators (Tens)/Electric Stimulator	В
119	Ultra Violet Lamp Large	В
120	Ultra Violet Lamp Small	В
121	Ultrasounic Nebulizer	В
122	Urine meter	В
123	Vein Detector	В
124	Vortex mixer	В
125	Water Bath	В
126	Air 240 Cft Cylinder	С

127	Air 48 Cft Cylinder	С
128	Baby Cots	С
129	Bed side Locker	С
130	Bed side steel stairs	С
131	Bed with side Table and over bed trolley (local)	С
132	Beds with side table over bed trolley(imported)	С
133	CO2 240 Cft Cylinder	С
134	CO2 48 Cft Cylinder	С
135	Couch for Ultrasound / Examination couch	С
136	Cylinder Trolley 240 CFT	С
137	Cylinder Trolley 48 CFT	С
138	Dissection Table (small)/ Mortuary table	С
139	Dissection Table(large)/Mortuary table	С
140	Dressing Trolley	С
141	Drip stand	С
142	Dry Clean Trolley	С
143	Electric Cardiac Bed/ICU Bed	С
144	Fire extinguisher 4 Kg	С
145	Fire extinguisher 6 Kg	C
146	Fire extinguisher 9 Kg	С
147	Folding Screen	C
148	Gynae examination couch	С
149	Instrument Trolley	С
150	Manual Cardiac Bed/ICU Bed	С
151	Nitrous Oxide240 Cft cylinder	С
152	Nitrous Oxide48 Cft cylinder	С
153	Orthopedic Traction Bed	С
154	Oxygen 240 Cft cylinder	С
155	Oxygen 48 Cft cylinder	С
156	Patient electric bed	С
157	Patient Trolley	С
158	Revolving steel stool	С
159	Stretcher (Imported)	C
160	Stretcher (Local)	C
161	Surgeon revolving steel stool	C
162	Wheel Chair	C
163	Adult weighing scale	D
164	Ambo bag Adult	D
165	Ambo bag Paeds	D
166	Analytical/Electronic Balance	D
167	Baby Anesthesia Set	D
168	Baby Resuscitation Apparatus	D
169	Baby weighing scale	D
170	Bed Sheet	D

171	Binocular Magnifier	D
172	Blanket	D
173	Blood Screening Counter	D
174	Box for disposal of sharps	D
175	BP apparatus with stand	D
176	BP mercury desktop with peads and adult cuff	D
177	BP Set Wall Mounted	D
178	Breast pumps	D
179	Centrifuge Tubes (Glass)	D
180	Centrifuge Tubes (Plastic)	D
181	Clamps	D
182	Containers for sputum	D
183	Containers for Urine	D
184	Cover Slip	D
185	DLC Counter	D
186	Ear Syringe	D
187	ENT Diagnostic Set (adult and Paeds)	D
188	ESR Pipettes	D
189	ESR stand for five Tube	D
190	Examination torch	D
191	FSP Pipette	D
192	Glass pipettes (different sizes)	D
193	Glass Slide	D
194	Glass Wares	D
195	Haemo cytometer	D
196	Hangers Various Size	D
197	Immersion Rod	D
198	Jester (1 to 10 ul) Adjustable	D
199	Jester (10 to 100ul) Adjustable	D
200	Jester (100 to 1000ul) Adjustable	D
201	Jester Fix 1000ul	D
202	Jester Fix 100ul	D
203	Jester Fix 10ul	D
204	Jester Fix 20ul	D
205	Jester Fix 500ul	D
206	Jester Fix 50ul	D
207	Jester Fix 5ul	D
208	Lancets	D
209	Laryngeal Face Mask (small, Medium & large size)	D
210	Lead Apron	D
211	Lead Glass Shield	D
212	Lead Gloves	D
213	Lens Set(Plus 78 D)	D
214	Manual ESR System	D

215	Manual Film Processor	D
216	Manual Suction Apparatus for ICU	D
217	Mattress Foam with Raxine Cover	D
218	Mattress Foam with Raxine Cover Medical Grade	D
219	Measuring Stand Infant	D
220	Micropipette Digital Different size	D
221	OPD chairs S.S	D
222	Steel Almirah for Medicines	D
223	Steel File cabinet	D
224	Cupboard Steel Large	D
225	ORS feeding containers and spoons	D
226	ORS measuring jug	D
227	OT Caps	D
228	OT Gown	D
229	OT Sheet	D
230	OT Shoes	D
231	Otoscope Rechargeable	D
232	Oxygen Cylinder Key	D
233	Oxygen Flow Meter	D
234	Oxygen Flow Meter with humadifier	D
235	Oxygen gauge	D
236	Peak Flow Meter	D
237	Pediatric Circuit	D
238	Pillow with cover	D
239	Pipette stands	D
240	Plastic Apron	D
241	Proctoscope for adult & child	D
242	Randall Baker Face Mask all sizes set	D
243	Reagent Bottles	D
244	Refraction Box	D
245	Safe Light for Dark Room	D
246	Sahli Hemoglobin meter	D
247	Sam Circuit all sizes	D
248	Stethoscope	D
249	Stethoscope Nursery	D
250	Stylets Adult / Paeds	D
251	Table Cover large	D
252	Table Cover small	D
253	Test Tube holder	D
254	Test Tube Racks Stainless Steel	D
255	Test Tubes	D
256	Test Tubes Racks wooden	D
257	Tonometer	D
258	Thermal Gun	D

259	Vaccine carrier and ice pack	D
260	Vision testing drum	D
261	Wet Film Stand	D
262	Wheel Chair Folding type	D
263	Wire Loops	D
264	Wooden Boxes	D
265	X-Ray Cassette 10 x 12 with Green screen.	D
266	X-Ray Cassette 12 x 15 with Green screen	D
267	X-Ray Cassette 14 x 17 with Green screen.	D
268	X-Ray Cassette 8 x 10 with Green screen.	D
269	X-Ray Illuminator Double Table Top/ X-Ray Viewer / X-Ray Viewing Box	D
270	Electric Geysers 10 Gallons	D
271	Electric Geysers 15 Gallons	D
272	Electric Water Cooler 40 Litters with Filter	D
273	Electric Water Cooler 60 Litters with Filter	D
274	Electric Water Cooler 80 Litters with Filter	D
275	Gas Geyser 30 Gallon	D
276	Gas Geyser 50 Gallon	D
277	AC 1 tone Split unit inverter type	Е
278	AC 1.5 tone Split unit inverter type	Е
279	AC 2 tones Split unit inverter type	Е
280	ILR/Deep Freezer	Е
281	Refrigerator 12 CFT	Е
282	Refrigerator 14CFT	Е
283	Refrigerator 18 CFT	Е
284	Photocopier	Е
285	Generator 40 KVA	F
286	Generator 50 KVA	F
287	Generator 100KVA	F
288	Generator 200KVA	F
289	60KVA three phase Automatic voltage regulator	G
290	30 KVA single phase Automatic voltage regulator	G
291	5 KVA UPS	G
292	5KVA Solar Off Grid Hybrid Inverter	G
293	All Surgical instruments and instrument sets	C

S.No	Nomenclature	Specifications	Category
1	Anesthesia	Anesthesia unit with 2 Vaporizers and inbuilt ventilator	A
	Machine with	Unit shall be comprised of the following components.	
	Cardiac	Non interchangeable pipeline inlets.	
	Monitor having	Pipeline and cylinder gauges for O2 and N2O.	
	two vaporizers	Pin index cylinder yolks for at least one or more cylinders of O2 and	
	1	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. So do l'impediant de CO2 have an famation 1.2 We assured to	
		• 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 be capable of	
		ventilating pediatric patients. The ventilator shall have the following	
		features as a minimum requirement.	
		• Ventilation mode: VCV, PCV, , SIMV-VC, SIMV-PC, , CPAP,	
		PSV	
		Electronic Microprocessor controlled.	
		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 Valuma from 20 ml to 1400ml on better an aither aids.	
		• 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 60cmH2O 0r 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
- Mains 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. 1 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
- 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:

<u>Heart rate</u>: 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	
		Neonate and adult probe. The state of	
		Temperature:	
		• Range; 0 -50 degree C or better	
		NIBP:	
		• Range; 15-260 mmHg (± 10mmHg)	
		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.	
		ı ,	
		SPO2 Finger sensor with fixed or detachable extension (each for adult Pages and pages) 1	
		adult, Peads and neonate) 1 NURR Reveal la Negrata Revela Coeff	
		NIBP Reusable Neonate, Paeds& Adult Cuff NIBP H	
		• NIBP Hose	
		• AC power code	
		• Ground cable 1	
		• Operation Manual 1	
		• 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	
	Anson I seen	machine and Patient Monitor	Δ.
2	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	
		25G Qty 1 Curved 20G Qty 1	
		Curved 20G Qty 1	
		Curved 20G Qty 1 Flexible Curved:	
		Curved 20G 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 Box	
		4. CB top plate attachment unit	
		5. Safety goggles	
		6. Goldman four mirror lens	
3	Auto Refractor	7. Area centralis lens Technical Specification:	A
3		Technical Specification:	A
	with	Refraction measurement,	
	Karatometer	• Sphere -20T0 22D OR better (VD 10mm) (0.01/0.12/0.25D step).	
		 Cylinder 0 to ±10D or better (0.01 / 0.12 / 0.25D step). Axis Angle 0 to 180° or better (1° step). 	
		Measurement of Corneal Radius:	
		G	
		 Curvature radius5.0-10.0mm or better (0.01mm step). Cylindrical power 0-±10D or better. 	
		 Axis Angle 0-180 degree (1-degree step or better). 	
		 Pupil diameter measurement range: Ø 2.0mm – Ø 8.5mm or better. 	
		• Vertex distance: 0, 10, 12, 13.5, 15mm or better.	
		• PD Measurement range 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.	
		• Contact lens holder: 1 No.	
		Operation manual.	
		Local Motorized stand	
4	Air	Automatic air purification system	A
	Purification	Air purification system for the removal of bacteria, viruses, and	
	System	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	
5	B. Scan	Ophthalmic ultra sound for A -scan biometry, B -scan with	A
J	D. Scan	Spanianne unia sound ioi A -scan biomen y, B -scan with	11

		<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: 20Mhz 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/ manual 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. Noltage course: 220 VAC	
7	Bronchoscope	Voltage source : 220 VAC Size:	A
′	Rigid		Λ
	Kigiu	• 3mm WL 200mm or better	

	1		,
		• 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 	
		• Grasping forceps, soft foreign body 1	
		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	
		<u>trolley.</u>	
		•	
8	Cardiac	Multi Parameter Patient Monitor	A
	Monitor for	(5ch ECG, SpO2, NIBP, TEMP, Resp.)	
	Category C &	 Display for easy Viewing12" or better color TFT/LCD/ LED for 	
	low-level	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	
		Multi-lead ECG algorithm	
		S-T and QT Analysis	
		Pacemaker detection.	
		Support heart rate analysis and dynamic NIBP analysis	
		 Up to 72 hours of graphic and tabular trend of all parameters 	
		Transfer of the parameters	
		PERFORMANCE:	
	<u>I</u>	1	1

	1		
		<u>Heart rate</u> : 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	
		Neonate and adult probe. Townseture:	
		Temperature:	
		• Range; 0 -50C(32 - 122F)	
		NIBP:	
		• Range; 15-260 mmHg (± 10mmHg)	
		GENERAL:	
		• <u>Display:</u> 12" or better Color TFT/ LCD/ LED or better	
		• Alarm	
		Alarm: All parameters on/off selective independently	
		• Power input 220Vac,50Hz	
		With Battery Backup time: Minimum 03 hours or better for all	
		parameters.	
		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.	
		NIBP Reusable Neonate, Paeds& Adult Cuff 1	
		• NIBP Hose 1	
		• AC power code 1	
		• Ground cable 1	
		Operation Manual 1	
-	G 11	• Temperature sensor & cable 1	
9	Cardiac	Multi Parameter Patient Monitor	A
	Monitor for	(5ch ECG, SpO2, NIBP, Dual IBP, TEMP, Resp.,ETCO2)	
	Higher level	o Display for easy Viewing 15" or better color TFT/LCD/ LED	
	Hospital	for easy set-up(with all parameters display)	
		o ECG, SpO2, NIBP, 2-IBP, 2-TEMP, and Respiration	
		o EtCO2 (Side stream/ main streamtype with basic	
		accessories)	
		o 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 NIBB analysis.	
		Support heart rate analysis and dynamic NIBP analysis BB askle and aspect kit.	
		o IBP cable and sensor kit	
		O Up to 72 hours of graphic and tabular trend of all parameters,	
		PERFORMANCE:	
		<u>Heart rate</u> : 30 ~ 300 bpm or better on either sides And Ped/Neo:15-	
		350bpm or better	

	T	·	
		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.	
		<u>Temperature</u> :	
		• Range; 0 -50C(32 - 122F)	
		NIBP:	
		• Range; 15-260 mmHg (± 10mmHg)	
		GENERAL:	
		Alarm	
		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 .20each	
		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 Hands	
		NIBP Hose 1	
		• AC power code	
		• Ground cable 1	
		Operation Manual FTCO2 (Side attracts) with basic and	
		 ETCO2 (Side stream) with basic acc. IBP Cable 1 	
10	Color Doppler	• Temperature sensor & cable 1 Fully Digital Beam Former Having 350,000 Or More Digital Processing	A
10	Machine Machine	Channels with Integrated Data Management System Having 500GB Hard	71
	Widemine	Disk Drive for Still and Cine Clips Storage.	
		Disk Drive for 5th and Chie Chps Storage.	
		N 1	
		 Modes 2D/M-Mode, Doppler, Pw, Hprf Doppler, Color Flow Imaging 	
		• System Capability 1.5 – 18 MHz or More	
		Tissue Harmonic Imaging Viewing Double 20 and better	
		• Viewing Depth: 30cms or better.	
		• Frame Rate: 1000 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 220db or better 	
		Doppler Mode Specifications:	
	<u> </u>	A.E. Committee of the c	

		Pulse Repetition Frequency Range;	
		PWD: 1.0 To 22 KHz	
		Doppler Beam Steering Doppler Beam Steering	
		On Line 4-Ports for Trans-thoracic Probes Description:	
		Doppler Beam Steering and Bi-Directional Stereo Audio	
		Color Doppler PNA D G S S S S S S S S S S S S S S S S S S	
		PW Doppler Must Be Continuously Steerable In Color Blood Flow Imaging Made in Bool Time The state of t	
		Imaging Mode in Real Time	
		Colorized Spectrum Display Tions Hamming Investigation Transfer Transfer	
		Tissue Harmonic Imaging with Two Frequencies Floring and the second secon	
		Elastography2D Image with Color Flow	
		Power Doppler Auto Lucas Optimization/Quick Scon for Single Button	
		Auto Image Optimization/Quick Scan for Single Button Optimization of All Scanning Parameters Including STC Overall Optimization of All Scanning Parameters Including STC Overall Including STC Overall Including Including Including Including Including Including Including Includi	
		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	
		Strain Elastography	
		 Automatic measurements for BPD, FL, HC, AC and OFD 	
		Measurement Package:	
		To Provide Comprehensive Software Package for Measurement Of	
		Distance Circumference, Area, Time, Depth etc.	
		System Complete with Following Facilities and Accessories:	
		• 21-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)	
11	CR System	Digitizer Exposure size:	A
	(computerized	14"x14" / 14"x17" / 11"x14" / 10"x12" / 8"x10"	
	radiography	Sampling pitch:	
	system) with	1. 2 Types: 75 μm to 175 μm or better. Digital Gradation level	
	compatible UPS	2. 4096 Levels (16-Bit) Processing Capability or better	
		3. Up to 60 Plates / hour or better	
		Console	
		Image Processing:	
		Automatic Body Part recognition	
		Automatic Processing Parameter study.	
		Image Output:	
		Maximum:	

- Host: 2ch for Normal, 1ch for backup Printer: 1ch for Normal, 1ch for backup.
- DICOM Support:
- Basic Gray scale Print Management (SCU) Storage (SCU)
- Modality work list Management
- Modality performed Procedure step
- Gray scale Standard Display Function (Print output)

Computer Desktop (as per OEM requirements)

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. 	
		Compatible UPS, model, make and brand must be mentioned	
12	Cystoscope	CYSTOSCOPE FLEXIBLE SET	A
	flexible set with	Working length: as per user	
	light source	• Distal Tip: 4.8mm to 4.9 mm.	
	complete	• Working channel: 2.4mm or better	
	Complete	• Active Deflection: 180° to 210oup,120° down or more	
		With Passive Deflection.	
		• Light Carriers: 2,	
		• Field of view: 110° to 1200 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 the little state of the state of th	
		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.	
13	Dialysis	Touch screenColor TFT Monitor 10 inch or above	A
	Machine	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	
		 Variables 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 prining system with full display system Automatic clean and rinsing mechanism. 	
		 Automatic clean and rinsing mechanism. Display for services diagnostic and rinsing mechanism. 	
	1	- Display for services diagnostic and finding incellanism	
		 With automatic thermal disinfection mechanism (up to or 80°C or 	
		• With automatic thermal disinfection mechanism (up to or 80°C or above)	
		 With automatic thermal disinfection mechanism (up to or 80°C or above) Blood pump with variable blood flow rate which should be 	
		• With automatic thermal disinfection mechanism (up to or 80°C or above)	

		 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, temperature, and flow. With Endotoxin Filter With battery backup service: 25 minutes or better With inbuilt integrated BPM system Bicarbonate cartridge Storage of up to Ten patient records Disinfection history Input power 220VAC, 50Hz Compatible RO plant with storage tank (Rust-free) (locally	
14	Digital OPG X	assembled with imported parts) to run 4 machines at a time, model, make should be mentioned price should be quoted separately Digital panoramic (child, adult), view lateral and Bitewing (child, adult)	A
	Ray	 imaging Upgradable to CephMicro 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 Desktopwith 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 stool for patients.	
Digital	COMPRISING OF FOLLOWING: -	A
Digital Fluoroscopy Unit	Height Adjustable stool for patients.	A
	 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 	
	Fluoroscopy	Digital Fluoroscopy Unit COMPRISING OF FOLLOWING: - • 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 and Up down movement, tube column with Motorized collimator • 19 Inch or more LCD Medical Grade monitor on trolley. • Overhead rotating anode double Focus x-ray tube • 01 pair of H.T Cable X-RAY GENERATOR • Microprocessor Controlled • High Frequency, 01 Tube Radiography / Fluoroscopy Operation. • Maximum KVP Radiography: 800/1000mA • Maximum KVP Radiography: 40 KV • Minimum Exposure Time: 1 millisecond • Maximum MA Fluoroscopy: 40 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 • Diagnostics 89/30 or more Degree Remote Controlled Rad/ Fluoroscopy • Diagnostic 89/30 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

1		3.6 . 1 . 111 .	
ļ		Motor driven collimator	
		Remote controlled compression, the compression force, adjustable	
		80 N or more.	
		Flat Panel DETECTOR	
		Detector type: amorphous silicon	
		 Active area nominal: 14 x 14 Inchor better 	
ļ		• 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: - +/-30° or better along a longitudinal 	
		displacement of 40 cm or better.	
		Motorized Collimator	
		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	
1.6	DD C	in the diagnostic image.	
16	DR system for	Flat panel detector with acquisition software and dry film printer	A
	existing X-ray	Flat panel detector (model and make must be given)	
	machines with	The Flat panel Detector should be wireless. Principle in a f 150 Minute and better.	
	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	
		• Images 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 2300x 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 or more. 	
		 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 and brand must be mentioned.	
17	Echo Machine	Digital echocardiography machine	A
		Fully digital beam former having 350,000 or more digital processing	
		channels with integrated data management system having 500GB hard disk	
		drive for still and cine clips storage.	
		Modes:	
		2d/m-mode, doppler, pw, cw&hprfdoppler, color flow imaging	
		• System capability 1.5 – 18 mhz or more, m-mode, tissue harmonic	
		imaging,	
		Tissue doppler imaging with pulse wave tdidoppler spectrum.	

- Viewing depth: 30cms or better.
- Frame rate: 1000 or better.
- Built-in cine loop: 2000 frames/256 mb or better.
- Real time freeze & image magnification ability better than 4x pre & post processing
- Sweep speed: slow, medium, fast
- 8" or better touch command screen for easy operation of the system.
- System dynamic range: 50 to 220db or better
- Doppler mode specifications:
- Pulse repetition frequency. pwd:

cwd:

- Doppler 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)
- Strain rate imaging or strain strain imaging

System complete with following facilities and accessories:

- 21-inches or better display (lcd/tft).
- 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)
- 2.0 5.0 mhz or more multi-frequency convex probe
- 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)
- Optional: tee. Probe (trans esophageal probe) for adults and child. (model and make must be mentioned)

18	Elisa Machine	Consisting of The Following Components.	A
10	(Reader,	For micro plate assay.	
	incubator shaker	Plate Reader:	
	and Washer)		
	Programmable	Eight channel vertical light path filter photometer	
	with Stabilizer	End point and kinetic reading modes Software for calculation and lead	
	and UPS	Software for calculation modes	
		• Storage for up to 96 assay protocols	
		Range 400 to670nmBandwidth 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.	
		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.	
		Stabilizer:	
		With Servo motor stabilizer.	
		UPS:	
		Branded and compatible UPS for at least 30 minutes backup.	
		The bidder will provide kits for HCV, HBsAg, HIV patients along with the machine free of cost at the time of installation	
19	Endoscope	HIGH DEFINITION GASTRO-VIDEO SCOPE	A
	Gastro	High definition	
	duodenal	 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 3to 100 mm or better on either side	
		Angulation Range Up 210 ^o Down 90 ^o 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.	

		VVVI. 11 1 1 2 2 2 1 1 1 1 1 2 2 2 1 1 1 1 1	
		• 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	
		a. Automatic Light Control	
		b. Back light sensor.	
		Accessories: AC power cord, Signal Cable, USB cable.	
		Along with trolley (Local).	
		Endoscope Disinfector	
		 Locally Made (Model and make must be mentioned) 	
20	Esophagoscopes	Esophagoscopestube, Appr. Size 1, 6x8 mm (h xw)	A
20	instruments set	• WL: 350mm.	11
	mstruments set	 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.	
21	ETT Machine	C.,	A
21	ETT Machine	Specification:	A
		PC based computerized stress test machine with window-based	
		software	
		• 12-Channel Stress Test with recording, presentation and Evaluation of ECG.	
		Manual and automatic event memory	
		ST-Trend and ST-Level display of all 12 channels.	
		Display of blood pressure, heart rate and arrhythmia.	
		QRS-Complex show in a superimposed mode.	
		Review function at any time during exercise	
		Standard or individual protocols.	
		Automatic control of treadmills in speed and elevation in load	
		QRS-Analysis:	
		Analysis of the stress Test with control of histograms.	
		 Analysis of the stress Test with control of instograms. ST level and Trend histograms of all leads. 	
		Display of QRS complexManual ECG with time curser.	
		With built-in calipers for measurement control FCC analysis during averages.	
		ECG analysis during exercise	

	T	T	
		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	
		Emergency 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)	
22	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 Stabilizer	• Sample Tray with 30 or more sample positions for primary tubes and test tubes.	
	and UPS	 Regent position 30 or more 	
		 Regent position 30 of more Sample Volume: 2 μL – 30 μL. 	
		 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	
		• Tubes01 set (50 Tubes)	
		• Fuse 01	

		T	
		• Extra Lamp 01	
		User manual	
		Operation Software.	
		Stabilizer:	
		With Servo motor stabilizer.	
		UPS:	
		Branded and compatible UPS for at least 30 minutes backup.	
		The bidder will provide kits for 100 patients along with the machine free of cost at the time of installation	
23	Hematology	Consisting of:	A
23	Analyzer 3 Part		7.1
	1	Hematology Counter with 3 Parts differential automated. The second second 40 Second sec	
	differential with	• Throughout 40 Samples / Hour or better.	
	Stabilizer and	Minimum 18 or better parameters including Hb, WBC, RBC,	
	UPS	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.	
		Stabilizer:	
		With Servo motor stabilizer.	
		UPS:	
		 Branded and compatible UPS for at least 30 minutes backup. The bidder will provide kit for 500 patients along with the machine free of cost at the time of installation 	
24	ICU Central	Central Station Monitor for use in intensive and coronary care units	A
	Station for	• Unit shall be capable of monitoring a minimum of 8 beds and a	
	cardiac	maximum of 32 beds.	
	monitors	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 Size (Model and Make must be mentioned): 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 setup User selective 10 or better traces/ waveform display.
- ECG, SpO2, NIBP, IBP, 2-TEMP, and Respiration
- EtCO2 (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
- Up to 72 hours of graphic and tabular trend of all parameters,

PERFORMANCE:

<u>Heart rate</u>: 30 ~ 300 bpm or better on either sides And Ped/Neo:15-350bpm or better

Respiration

• Respiration rate: 2~150bpm or better on either side.

SPO2:

- Range: $30 \sim 100\%$ or better on either side
- Neonate and adult probe.

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)
- Alarm
- Alarm: All parameters on/off selective independently
- Power input 220Vac,50Hz
- With Battery Backup time: Minimum 05 hours or better

	1		
		 ACCESSORIES: ECG 5 Lead cable. Disposable Electrodes Adult, Neonate &Paeds. 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 Operation Manual ETCO2 (Side stream) with basic acc. IBP Cable Temperature sensor & cable Note: Prices of Central Station Monitor and Patient Monitor must be quoted separately. 	
25	ICU Ventilator (Neonatal& Pediatric & Adult)	Ventilator, electrically operated microprocessor controlled, suitable for adult / Paeds / Neonate use. Tidal Volume: 25 ~ 2000 ml or better on either side. 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% Patient Circuit: Autoclavable/ disinfectible (adult, Peads& Neonate) Supplied with pole clamp O2 and Air input hoses 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 (03 Hrs or more backup UPS)	A
26	Laparoscope machine	Gynea and General Laparoscopy System High definition three chip (CCD) /CMOS Camera System • Camera Console 220V with Universal Coupler.	A

- Pure Digital Signal with high definition video 2 Mega pixel or better (native resolution)
- Progressive scan technology both on camera head and console
- Brightness Control on Console and camera head
- Digital Zoom (should have facility up to 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 or better medical grade LED Monitor (from same manufacturer and model must be mentioned)
- High Definition

HD Resolution: 1920x1080 or better.

Brightness: 300 Cd/m2 or better.

Contrast Ratio: 2000:1 or better With

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

Accessories: AC power cord, Signal Cable.

INSUFFLATOR

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

Along with imported Trolley

Along with cautery / diathermy from same manufacture

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 03Nos Grasping and dissecting forceps: 02 Nos L Hook electrode: 01Nos Universal Monopolar cable: 01NoInsufflations needle: 01No Suction/irrigation cannula 01No Clip applicator: 01No Needle Holder: 01Nos Uterus Manipulator: 01No **Knot Pusher:** 01No

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 degree, 5mm
 30 degree, 5mm

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) 03Nos Grasping and dissecting forceps (3.5-4mm): 02 Nos L Hook electrode (3.5-4mm): 01Nos Universal Monopolar cable: 01No Insufflations needle: 01No Suction/irrigation cannula (3.5-4mm): 01No Clip applicator: 01No Needle Holder: 01Nos Uterus Manipulator: 01No **Knot Pusher:** 01No 5 mm to 10 mm Reducing sleeve 01 No Reducing sleeve 3.5 mm to 5 mm 01 No Container system for instrument and telescope

N. A. D.

Note: Prices must be quoted separately for

- Gynea and General Laparoscopy System
- Adult Laparoscopic instruments for general surgery and Gynae
- Peads Laparoscopic instruments

27	Mobile C-Arm/	Mobile C-Arm Image Intensifier with microprocessor controlled & High	A
	Image Intensifier	frequency, X-Ray Generator	
	(Fluoroscopy)	Output Power : 2 KW or better	
		• Radiography & Fluoroscopy KV : 40-110 KV or better with 0.4-	
		100mAs or better	
		Technique selector switch for Fluoro Rad. Mode Selection. A patential Programmed should be provided in radiography mode.	
		 Anatomical Programmed should be provided in radiography mode. Continuous Fluoroscopy: 5 mA or better 	
		Boost mode mA range: 10mA	
		System should have ABC control	
		System should have auto-Mode and Manual mode for user in fluoroscopy	
		• 9-inch Image Intensifier (brand model must be mentioned) N=9 inch , M1=6 inch , M2=4.5 inch ,	
		Digital CCD Camera with 1Kx1K lines	
		Stationary Anode Double Focus x-ray tube 40 KHU or better	
		• Focal spot 0.6, 1.8 or less / single focal spot	
		• 2 No's medical grade TFT monitors on trolley, Size: 19 inch or better.	
		DIGITAL IMAGE MEMORY SYSTEMS	
		100 images Storage Memory with last image hold, Recursive filter,	
		Negative image & contrast enhancement. Facility Store image in Pen drive	
		Cassette holder tray for radiography	
		<u>C-Arm movement</u>	
		 Orbital rotation should have 120° or better 	
		• Rotation +180o	
		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 atleast 20 minutes or more backup	
28	Mobile X-Ray	Mobile X-ray machine battery operated and motor driven by the battery syste	A
	plant 300	general purpose mobile x-ray unit for radiography.	
	mA/125KV	X-Ray Generator	
	AC & Battery	KV Range: 40kv to 125 kV in 01 kV Steps.	
	Operated	mA Range : Max. 300mA or better	
		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.	
		outer j browne de grouter triuir oo.	

		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	
29	Nasopharyngosc ope with suction	 Flexible Naso-pharyngo-laryngoscope for universal application, Immersible. Outer dia: 3.6mm or less Working length: 300mm to 400mm, Total Length: 545mm or better Deflection up/down: 130°/130° Depth of Focus: 5mm to 50 mm, Field of view: 75 ° -85° or better Complete with compatible light source 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. 	A
30	Operating Microscope for ophthalmology	 inclinable binocular tube with converging optics .Paired eye pieces 10xs/12.5 xs Adjustable/Continually motorized zoom. Motorized fine focusing with foot control. Objective f=175mm. LED illumination system with variable light intensity control. UV filter, cobalt blue and green filters. Mobile floor stand with manual heightadjustment through counter balanced arm. 	A
31	Semi-Automated Chemistry Analyzer with Stabilizer and UPS	 Easy keypad operation with LCD Display / touch screen. Wavelengths range is 340-670nm, (± 10nm) Supports flow cell and curette mode. Analytical models include kinetic, fixed time. Bi-chromatic end point with or without regent blank or sample blank, linear or non-linear calibration curves. 	A

		• 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) 	
		\ 1 \ \ \ /	
		• Light sources: Halogen lamp.	
		• Wavelengths: 340-670, (± 10nm)	
		• Wavelength Accuracy: ±1nm to ±3nm	
		• Band Width: < 8nm.	
		• Flow Cell: Metal – quartz flow cell.	
		• Temperature Control: 370 C, ±0.1°C and ambient	
		Output: Internal/built in Printer.	
		• Interface: Rs-232 serial cable.	
		• Two extra Lamp.	
		Stabilizer:	
		With Servo motor stabilizer.	
		UPS:	
		 Branded and compatible UPS for at least 30 minutes backup. 	
		The bidder will provide kits for 100 patients along with the machine free of cost at the time of installation	
22	G: :1	free of cost at the time of installation	
32	Sigmoidoscop	Features of Sigmoidoscope:	A
	e with	Specifications and Qualifications:	
	universal	• Angle of view field: 100° or more	
	lighting	• Diameter of Distal End: ø13mm or less	
		• Diameter of Insertion Tube: ø12.8mm or less	
		• Range of Tip Bending: 180 °U,	
		180°D,	
		160 °R,	
		160 °L	
		• Depth of View: 3-100mm or more	
		Diameter of Instrument Channel: ø3.2mm 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	
		<u>trolley.</u>	
33	Sinus	 Flexible Sino scope for universal application also in pediatric, 	A
	Endoscopy set	immersible	
	with proof	• Outer Dia, 3.5mm.	
	puncture needles	• WL400mm or better.	
	1		

		Total Length 650 mm. Dia of Flexible Section3.6mm. Deflection up/down180°/90° Depth of Focus 3-50mm Field of view 95° or better. Instrument Channel 1.1 mm Dia. With proof puncture needles. With compatible light source (From same manufacturer) and fiber optic cable. 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.	
34 Slit	Lamp	Binocular Microscope. Magnification Changer: 2 step. 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. Slit Rotation:±/-900. Base movement as per manufacture design Vertical Movement: Longitudinal Movement Lateral Movement Fine Base Movement. Chin rest: Vertical Movement Local motorized table.	A
Port Ven	rable atilator for bulance:	Isport / Portable Ventilator for Ambulance: Unit to be used for adult and child ventilation during Cardiopulmonary resuscitation and for ventilation during 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 pressure 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	A

		Monitoring:	
		• FiO2, MV, MVspn, MVleak, TVi, TVe, TVespn, 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)	
36	Ultrasound	Heavy duty U/S machine (inbuilt trolley mounted) with	A
	machine	• Imaging Mode: B,B/B,B/M,M	
	(General	• Gray Scale: 256 or better	
	purpose)	• Display: 15" TFT or better	
	within built	• Scanning Depth: From 20 To 248 mm or better on either side	
	trolley	Pre-Processing: Signal Processing, Dynamic Range, Frame	
	mounted	Correlation, Line Correlation,	
	inounted	Image Enhancement, Scanning Angle Selection, Harmonic	
		Imaging)	
		Post-Processing Gray Map Y- Correction, Rejection Left-Right	
		Reverse, Up-Down Reverse	
		Hard Disk: 500 GB or better	
		Cine Loop: 256 Frame or better 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, 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. Management And Calculation Serferone Backers.	
		Measurement And Calculation Software Packages Floatronia Convey Arrest Transducer (Model reset has	
		• Electronic Convex Array Transducer. (Model must be	
		 mentioned).2.5/3.5/5.0 MHz Electronic Linear Array Transducer: (Model must be mentioned) 	
		5.0/7.5/10MHz	
		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	

Note: TVS probe price should quoted separately (optional) STREQUENCY X-RAY MACHINE 300 MA (RADIOGRAPHY ONLY) A 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			With built in mounted trolley.	
STRAY Plant 300mA in built or external AVR and UPS In case of external AVR and UPS			<u> </u>	
with Inbuilt or external AVR and UPS In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned • the AVR must be able to control the voltage between 100VAC to 260VAC, to provide constant output voltage of 220VAC,50Hz • In case of external AVR and UPS system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided). • AVR and UPS maximum power, brand model must be mentioned. • With over and under current, voltage and heat protection. XRAY unit Comprising of following: • High Frequency X-Ray Generator 300 mA /125 KV / 32 KW or better. • With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. • With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. • Way Floating top Bucky table Floor to ceiling or free standing Tube stand. X-ray tube head with; • Focal spot Size 0.6 x 1.2 mm or better on either side • 140KHU or more. • Manual Collimator. • Pair of H.T cable • Bucky wall stand. X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM • Microprocessor controlled High frequency. • Power: 32 kW or better. • kV Range: 40 - 150kV • 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.	37	X-Ray Plant		A
or external AVR and UPS In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned the AVR must be able to control the voltage between 100VAC to 260VAC, to provide constant output voltage of 220VAC,50Hz. In case of external AVR and UPS system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided). AVR 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 / 32 KW or better. With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand. X-ray tube head with; Focal spot Size 0.6 x 1.2 mm or better on either side 140KHU or more. Manual Collimator. Pair of H.T cable Bucky wall stand. X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM Microprocessor controlled High frequency. Power: 32 kW or better. kV Range: 40 - 150kV 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.		<u> </u>		
and each quoted component must be mentioned • the AVR must be able to control the voltage between 100VAC to 260VAC, to provide constant output voltage of 220VAC,50Hz • In case of external AVR and UPS system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided). • AVR 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 / 32 KW or better. • With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. • 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand. X-ray tube head with; • Focal spot Size 0.6 x 1.2 mm or better on either side • 140KHU or more. • Manual Collimator. • Pair of H.T cable • Bucky wall stand. X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM • Microprocessor controlled High frequency. • Power: 32 kW or better. • kV Range: 40 - 150kV • mA Range: 10 - 300mA • Minimum exposure time: 1 milli second • Exposure time range: 1 ms - 4 sec or more • Anatomical Programming: 40 or more. • Digital display of parameters. • Hand Switch for Radiography. With control console.		or external		
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 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. 			 and each quoted component must be mentioned the AVR must be able to control the voltage between 100VAC to 260VAC, to provide constant output voltage of 220VAC,50Hz In case of external AVR and UPS system the AVR/UPS system shall be compatible with the x ray unit for minimum of 70 to 100 exposes on different KV and mA. (Compatibility certificate from the supplier must be provided). AVR 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 / 32 KW or better. With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand. X-ray tube head with; Focal spot Size 0.6 x 1.2 mm or better on either side 140KHU or more. Manual Collimator. Pair of H.T cable Bucky wall stand. X-RAY GENERATOR RAD TYPE, 01 TUBE SYSTEM Microprocessor controlled High frequency. Power: 32 kW or better. kV Range: 40 - 150kV mA Range: 10 -300mA Minimum exposure time: 1 milli second Exposure time range: 1 ms - 4 sec 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. 	

	T		
		mentioned)	
		Four way floating top.	
		Oscillating Grid.	
		Cassette Tray to accommodate cassettes up to 14x17inch	
		Electromagnetic Brakes. Control of the co	
		• Grid ratio 8:1	
		COLUMNSTAND WITH MANUALCOLLIMATOR(model must	
		<u>be mentioned)</u>	
		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.	
38	X-Ray Plant	HIGH FREQUENCY X-RAY MACHINE 500 MA (RADIOGRAPHY	A
	500mA With	ONLY) with Inbuilt or external AVR and UPS	
	inbuilt or	In case of external AVR the model /brand /make of the main x ray	
	inbuilt or external AVR	In case of external AVR the model /brand /make of the main x ray unit and each quoted component must be mentioned	
		unit and each quoted component must be mentioned	
	external AVR	unit and each quoted component must be mentioned	
	external AVR	 unit and each quoted component must be mentioned The AVR must able to control the voltage between 100V to 260V&to provide constantoutput voltage of 220V,50Hz 	
	external AVR	 unit and each quoted component must be mentioned The AVR must able to control the voltage between 100V to 	
	external AVR	 unit and each quoted component must be mentioned The AVR must able to control the voltage between 100V to 260V&to provide constantoutput voltage of220V,50Hz In case of external AVR and ups system the AVR/UPS system 	
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	external AVR	 unit and each quoted component must be mentioned The AVR must able to control the voltage between 100V to 260V&to provide constantoutput voltage of220V,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 / 40 KW or better. With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. 	
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	external AVR	 • The AVR must able to control the voltage between 100V to 260V&to provide constantoutput voltage of220V,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 / 40 KW or better. • With inbuilt /external AVR and UPS system minimum 70 to 100 exposures or better. • 4 Way Floating top Bucky table Floor to ceiling or free standing Tube stand. X-ray tube head with; • Focal spot Size 0.6 x 1.2 mm or better on either side 	
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	1
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	
• mAsRange: 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	
<u>be mentioned)</u>	
• Small Focus: 0.6 x 0.6 mm or Less.	
• Large Focus: 1.2 x 1.2 mm or Less.	
• Tube voltage: 150kV.	
Anode heat storage capacity: 300 KHU or more.	
FOUR WAY FLOATING TOP BUCKY TABLE (model must be	
mentioned)	
• Four way floating top.	
• Oscillating Grid Ratio 10:1	
 Cassette Tray to accommodate cassettes up to 14x17inch 	
Electromagnetic Brakes.	
• Grid ratio 10:1	
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 BUGGET AND Cables, each 12 m or more long Output Description:	
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	
Yag Laser • Laser Wave Length: 1064nm	A
Mode: Super Gaussion/Q switch	
Optical Break Down: 2.5mJ or better in air Pulse Duretion: 4.5mg	
Pulse Duration: <4.5ns Maximum Loser Energy: Single Pulse 10m I	
Maximum Laser Energy: Single Pulse, 10mJ Double Pulse, 23mJ	
Double Pulse, 23mJ	
Triple Pulse, 32mJ or more Energy Levels: 20 Stone or more	
Energy Levels: 20 Steps or moreFrequency: Max 2Hz	
• Frequency: Max 2HZ • Focus Diameter: 10um	
• Angle of exit aperture: 15° to 18°	

40	24 Hour BP Monitoring machine	 Aiming Beam: 630nm – 680nm Focus Shift Variable: +150um, 0, -150um Input Voltage: 220V, 50Hz Magnification: 5,8,12,20,32x through Galilean 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 Slit Adjusment: Width 0-14mm or more Isolation Transformer: Machine should have isolation transformer for safe handling Stand: Motorized, Local made Along with following lenses: Capsulactomy Lens (Compatible with Machine) IrredectomyLens (Compatible with Machine) The system should have Solid State light weight 1 No's Digital Recorders 	В
	macmic	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.	
41	Air Drill with Cylinder/Orth opedic pneumatic drill with cylinders.	 Modular Hand Piece Pneumatic hand piece with forward, safe and reverse activated on hand piece. Speed and torque variable with different attachment gear system. Twist Lock quick change attachment Progressive Trigger Action Cannulations4 to 5mm Chuck with Key Attachment ¼ Jacobs Chuck Size ¼ (4 to 6.35mm) Fully Cannulatedto 4to 5.1mm Maximum Speed 900 to 1250 rpm or better Attachment 4.00 mm Jacob Chuck Size 5/32 (4.0mm) Fully Cannulated Quick Coupling Chuck AO Small attachment Stainless Steel Cannulations2 to 3.5mm AO Large attachment Stainless Steel 	В

		<u>, </u>	
		• Cannulations2 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	
		Cannulations.8 to 4 mm diameter	
		 Maximum Speed 900 to 12500 rpm or better 	
		Pin Driver	
		Pin driver attachment	
		Maximum Speed 1250 rpm or better	
		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 of5	
		• St OscilBlade 71mm x 19.5mm x1.2, Box of5	
		• St OscilBlade 71mm x 33mm x1.2mm, Box of5	
		St OscilBlade 71mm x 19.5mm x 8mm, Box of5	
		• Leg Bone Osc Blade 12.5x73.8 x 63,1.06mm, Box of5	
		• St OscilBlade 19.5mm x 86mm x 0.8mm, Box of5	
		• St OscilBlade 8.5mm x 38mm x 0.4mm, Box of5	
		• St OscilBlade 25.4 x 90 x 1.27mm sterile, Box of5	
		• 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.	
40	A 4 1		D
42	Autoclave	Minimum 8 or more sterilization cycles (Vacuumization, Heating Sterilization Exhaust and Draing) For (a) wronned as	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.	
		<u> </u>	
		Single door, high pressure, high vacuum autoclave for sterilizing hospital materials.	
		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	
		- Decureary operated with mount electric steam generator	

43	Autoclave Automatic 100	 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 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
	Liters Sliding door	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 inches or more touch screen showing working process parameters, easy control and operation. 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 Autoclave should execute Vacuum test, Bowie & Dick test or	

		More	
		Should be supplied with compatible plant, with imported parts.	
		Accessories:	
		Basket 02 Nos To 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.	
44	Autoclave	Minimum 8 or more sterilization cycles (Vacuumization,	В
11	Automatic 150 Liters	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open,	D
		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 Floatricelly operated with inhvilt electric steem generator	
		Electrically operated with inbuilt electric steam generator Contains the solution of the	
		System should be operated with a high vacuum pump. Chamber of a similar attack as heatten particular.	
		Chamber should be made of stainless steel or better material Western level in directors.	
		Water level indicator I de la Contraction 150 lie	
		• 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 Transport and a recovery and distributions.	
		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	
45	Autoclave	only provide space and water outlet.	В
43		Minimum 8 or more sterilization cycles (Vacuumization, Heating Sterilization Exhaust and Drying) For (a) wrapped as	D
	Automatic 150	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as well as unwrapped instruments, (b) flash sterilization, open,	
	Liters Sliding	packed.	
	door	 Single door, high pressure, high vacuum autoclave for sterilizing 	
		5 mgie door, mgn pressure, mgn vacuum autociave ioi stermzing	

	T		1
		hospital, materials.	
		Having fully automated Sliding door. Well Birth. Well Birth. Well Birth. Well Birth. 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:	
		D 1	
		• 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.	
46	Autoclave	Minimum 8 or more sterilization cycles (Vacuumization,	В
	Automatic 200	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: 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	

	1		
		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.	
47	Autoclave	Minimum 8 or more sterilization cycles (Vacuumization,	В
	Automatic 200	Heating, Sterilization, Exhaust and Drying), For (a) wrapped as	
	Liters Sliding	well as unwrapped instruments, (b) flash sterilization, open,	
	door	packed.	
	4001	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 	
		parts.	
		• Accessories:	
		- ACCOSOTIOS.	

 Basket 02 Nos Trays 10 Nos All infrastructural work including plumbing and will have to be done by the supplier. The hosporovide space and water outlet. 	electrical work
All infrastructural work including plumbing and will have to be done by the supplier. The hosp	electrical work
will have to be done by the supplier. The hos	rectifed work
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	Teal Will Only
48 Automated ESR Microprocessor controlled fully automated ESR analyzer	with the B
Analyzer following specifications:	
 Operation: Automated / Manual LCD screen 	
• Internal thermal printer	
 Easy operator software, Calibration & Controls Results time: 30 seconds or less 	
Result / Hour: 100 samples/hour or better EDTA blood and apple apple and apple and apple and apple and apple apple and apple and apple apple and apple and apple apple apple apple and apple apple apple and apple app	
• EDTA blood sample volume: 180 µl or less with	
withdrawal per test and 100 μl or less with manu	ai withdrawai
per test. • Simple position: 15 or better	
	В
r	В
BagShaker • Digital speed control 5 to 100 RPM or better	
• Tilting angle adjustment: 7° to 13°	
• Timer range: 1 min to 99 hours.	
 Min. Blood bags: 2 bags Automatic Film Film: 60 Films per Hour or more 	В
P	В
 Processor Minimum Film Size: 4 x 4 inch Maximum Film Size: 14 x 17 inch 	
 Electrical Requirements: 220VAC, 50 Hz Baby Incubator Microprocessor controlled 	В
 Baby Incubator Microprocessor controlled Incubator to have a large double Plexiglas hood w 	
dual viewing panels mobile on lockable castors.	tii excellent
 Temperature range: 34 to 37-degree C. 	
 To have an integrated sensor module to collect air 	and skin
temperatures Spo2, oxygen, humidity and pass this	
to the display.	information
 7 inch or more LCD/TFT screen should available to 	lisplay
relevant information	inspiray
The sensor module to have a visual alarm facility to	o complement
the audible alarm.	o compression
The mattress base to be contoured, x-ray transluce	nt.
• 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'.	penings with 4
tubing access ports.	
The unit to have the temperature, oxygen level and	humidity to
preset levels.	-
To have an alarm for all these parameters with a log	w initial alarm
intensity to avoid undue disturbance.	
 Oxygen to be able to be calibrated from 21% to 10)%,
The humidity module to be front loading and to ne	ed 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	
52	Baby Suction	Performance: suction controlled 0-650mmHg (Adjustable)	В
	Machine	• 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 length2m, with hose.	
		Mobile on four antistatic castors With the Grant Control of the Control of	
53	Binocular	With the over flow safety Standard Microscopa Consisting of:	В
33		Standard Microscope Consisting of:-	D
	Microscope	Binocular Head Adjustable Inter Papillary Distance Brand Adjustable Inter Papillary Distance	
		Rotating Quadruple Nose Piece	
		Adjustable stage with venire Scale And spring clip for slides	
		Coaxial Controls	
		Condenser carrier, vertically adjustable Did God To	
		Bright field condenser, NA ,1.25,FlipTop Line 1:	
		Light adjustment for condenser A parture Lie Dieghag and	
		Aperture Iris Diaphragm Halagan / ED illumination Fue Piece	
		Halogen /LED illumination Eye Piece Langage V10 20mm wide field fooysekle	
		• Lenses:- X10 20mm wide field, focusable	
		Objective Lenses:- NA Plain Andrew	
		X4 Plain Achromatic	
		X10 Plain Achromatic N.A0.25	
		X40 Plain Achromatic N.A0.65	
		X100 Plain Achromatic N.A1.25,	
		Oil Immersion With following accessories:-	
		Blue iris aperture	
		Oiler	
		Dust cover	
54	BIPAP	Device should have CPAP, BILEVEL S, BILEVEL T,	В
		BILEVEL ST modes.	
		 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.	
55	Blood Bag	The system should be heavy duty and be able to seal the blood	В
	Tube Sealer	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	
56	Blood Bank	 Cabinet to have smooth stainless-steel interior. 	В
	Refrigerator /	 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 arror massages.	
		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. 	
57	Centrifuge	Microprocessor controlled centrifuge machine with the following	В
	(Bench	specifications.	_
	Top)		
	1 Op)	 Angle Rotor Maximum Speed 3500rpm or better. Timing Up To 99 Minute, Continuous. 	
		 Programmable by Keypad; 10 Program storage. 	
		 Programmable by Reypad, 10 Program storage. Digital Display of Program Speed, Timing, Braking. 	
		 Digital Display of Flogram Speed, Finning, Braking. Lid Safety Interlock. 	
		 Angle Rotor, Maximum Capacity 12 X 15ml or better. 	
		1 mg/o rector, maximum cupacity 12 m 15 m of octor.	

58	Cervical and	Traction Unit:	В
	Lumbar Traction	Traction: Static, intermittent, cyclic traction/Harmonic	
	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 user defined protocols	
		• Voltage supply: 100-240 v, 50Hz	
		Accessories:	
		With Mobile Traction Stand /inbuilt	
		Fully adjustable	
		With Cervical Traction	
		With Lumbar Traction	
		Table (Electrically Operated Table):	
		Compatible with the traction unit/built-in with traction unit	
		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	
		• Lifting capacity not less than 150 kg	
		• Power supply: 120-230v	
		Tr y	
59	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 drop 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.	
- 60	CTC M. 1:	Easy to replace filter.	
60	CTG Machine	With Color7-inch LCD display or more.	В
		• Fetus heart rate: 50-240 bpm or better	
		Manual/auto recording Fetus movement.	
		Sound and color alarm for high and low fetal heart rate	
		• Continuous 3-4 hrs. real time monitoring function,	
		• Single, twins monitoring.	
		High resolution built in thermal recorder. By the second of the se	
		Built in communication port, for connecting to the central manitoring quotam	
		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 + 1.00/	
		• Work frequency: 1.0MHz+- 10%.	
		Compatible with Two Probe (for twins).	

		Complete with all accessories.	
		Rechargeable battery.	
61	Defibrillator	• Semi-automatic 200 joules or better biphasic defibrillator with	В
		monitor and AED mode.	
		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.	
		• Charging Time for full energy will be less than 08 sec.	
		• Screen Size of approx. 5.7 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 100	
		Shocks.	
		Auto tester/self-check.	
		External pediatric and adults Paddles, ECG cable with reusable	
		electrodes for adult &Peads.	
		AED facility.	
		AED pads	
		Pacing facility	
62	Deionizer	Automatic regeneration after manual initiation.	В
		Constant monitoring of final water quality.	
		Solid-state reliability for trouble-free service.	
		Automatic shut-off in event of power failure.	
		Compact, non-corrosive components.	
		Convenient, modular construction.	
		• Easy, economical installation	
		• Conductivity of water 0-3μs/m	
62	Delivery tehle/	• Flow: 20 to 30 lph	D
63	Delivery table/	• Couch top made of 3 sections i.e. back, hip, and leg sections covered	В
	D&C Table	with mattress having raxine cover.	
		Leg section removable Lin/down movement through hydraulia system	
		 Up/down movement through hydraulic system. Back seat adjustment through handles. 	
		 Back seat adjustment through handles. Removable receptacle under the hip area. 	
		 Kemovable receptacle under the mp area. Lithotomy poles with tying strips. 	
		 Hand grips on both the sides. 	
		 Mobile on castors. 	
		Note: ± 10 % of measurements will be entertained	
64	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 (model must be mentioned) 	
1	1	the man speed, a spray system (moder mast of montioned)	

- Air motor (3 in1) slow speed with contra angle attachment branded (model must be mentioned)
- Triple syringe
- 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 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).
- 4 or more positions, operated on 220V / 50Hz
- Automatic Back to Zero Position.
- Equipped with safety cut out device
- Adjustable head rest forward/ backward and up /down movements
- Right arm swings in / out for patient ease.
- Chair movement is smooth and silent through solenoid valves.

Dental Light:

- Day light Shadow less dental light.
- The light arm is well balanced and adjustable to different heights with variable horizontal and inverse movements.

Doctor's Tray:

- Moveable over the patient through swing in / out on flexible selfsupporting 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.
- Bowls 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. • 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, • Fixel 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. • High efficiency coil condense ensures low temperature, high output quality • Distillate of conductivity 03 to 04µx/m. • Compact construction suitable for bench and wall mounting. • Screw threads connectors for easy fitting or removal of hose safely. • Built-in constant level device with Schott Ventura-Nova Valve for drainage provides easy de scaling without dismantling. • Safety thermostat		1		
High power suction (Air operated) Dentist + Assistant Stoot: 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. Dental X-ray				
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. Dental Tadiographic 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				
• 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. 65 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 • Active area 20X30 mm or better • Software for viewing image have post processing s tools zoom, rotate, contrast adjustment etc. 66 Distillation water Assembly 67 Assembly 68 Assembly 69 Assembly 69 Assembly 60 Distillation water Assembly 60 Distillation water Assembly 60 Distillation water Assembly 60 Distillation water Assembly 61 Assembly 62 Active area 20X30 mm or better 63 Distillation water Assembly 64 Distillation water Assembly 65 Distillation water Assembly 66 Distillation water Assembly 67 Distillate of conductivity 03 to 04µs/m. 68 Compact construction suitable for bench and wall mounting. 69 Screw threads connectors for easy fitting or removal of hose safely. 69 Distillation of drainage provides easy de scaling without dismantling.				
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. 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. Horizontal thick wall heat resistant Glass boiler fitted with 3 KW chromium placed heater. High efficiency coil condense ensures low temperature, high output quality Distillate of conductivity 03 to 04µs/m. Compact construction suitable for bench and wall mounting. Screw threads connectors for easy fitting or removal of hose safely. Built-in constant level device with Schott Ventura-Nova Valve for drainage provides easy de scaling without dismantling.				
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for drainage provides easy de scaling without dismantling.				
• Distilled output: 10 Liters or better per 24 hours single distilled.			1	
• Power Supply: 220v, 50 Hz Single Phase.			1	
67 Dry Heat Features: B	67	Dry Heat	11 7	В
		•		_
Dust-1 fee Gravity-1 low convection			· · · · · · · · · · · · · · · · · · ·	
air oven For drying, conditioning, Sterilizing and quality control.		air oven		
Display: Temperature control, timer, alarm.				
Automatic on/ off function			 Automatic on/ off function 	
Over temperature and current protection.				

		 Leakage breaker, fan motor automatically stops when door is opens. Rapid Heat up in 25 min up to 240°C 	
		Digital Timer built-in Controller	
		• 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	
68	ECG Machine 12	• Instantaneous 12 channel ECG acquisition, and 7" or more LCD	В
00	channels	display.	В
	Channels	• 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	
		• Complete with Patient Cable,	
		Reusable Electrodes Set,	
		• ECG Rolls 20 Nos,	
		Gel 5 liters and Standard Accessories with each unit.	
69	ECG Machine 3	03 channels ECG Machine	В
09			Б
	channels	 Should be portable and lightweight ADC:12bits, resolution:1uV/LSB 	
		• Voltage 220 volts, 50hz	
		Voltage 220 volts, 30Hz Display 3" or more	
		Simultaneous 12 leads acquisition	
		Must have continuous display of patient heart and rate	
		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.	
70	ECT Machine	The same state and state a	В
		Should have constant current bi-directional square wave brief pulses	~
		Should have constant current bi-directional square wave brief pulses	

		Parameter 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 electrode for <i>Electroconvulsive therapy</i> having bush button	
		Earthing Wire	
		Conductive Gell	
		Instruction Manual	
71	EEG 32	32 channels EEG amplifier	В
	Channels	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)	
		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	
		With Compatible UPS having at least one hour back up for whole system	
		system. • Input power 220VAC 50Hz	
		• Input power 220VAC, 50Hz Accessories	
		Complete with standard accessories including	

		EEG Cap adjustable	
		Bridge electrode	
		Crocodile electrode/ disc electrode	
		PDC .	
		<u> </u>	
72	Electric	Local Trolley (Export quality) Missays and the last section of the last section	В
12		Microprocessor controlled	D
	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	
73	Electric	• 3 different and separate operating functions:	В
	cautery	1-purecut 2-cut-coag	
	(Dental)	• 3-pure coag	
		Maximum safety for the patient and The electrosurgical units supplied	
		complete accessories:	
		Hand piece, 10 electrodes and ground plate autoclavable.	
		• Voltage: 220 V 50.	
		Power output 30W or better	
74	Electric Ripple	Alternating pressure mattress with support area of 1720mmX 850mm	В
	mattress	or more.	
		To contain 14 or more air cells with variable geometric section.	
		The material to contain an anti-bacterial agent.	
		To have a reinforced base sheet membrane with removable cells and protective cover.	
		Within built compression pumps having equalizing device to prevent over inflation.	
		Cycle time to be 10 minutes or more	
		With CPR Valve/ emergency pressure release	
		To have a low-pressure indicator.	
		To be supplied with a case having handles for easy storage.	
		Weight 150kg or more	
		Weight 130kg of more With five spare cells.	
75	Electric surgical	Electro surgical unit 400 watts with the following functions	В
13	unit	PURE CUT,	ע
		• BLEND(1),BLEND(2),BLEND(3)	
	Diathermy	COAG1 (spray), COAG2 (contact) and AUTO BIPOLAR, FOOT	
		SWITCH BIPOLAR.	
		Microprocessor controlled.	
		Percentage output digital display shows on front panel.	
		Automatic bipolar output without using footswitch	
		Multi mono polar outlets, two hand control outlets and one	
		Laparoscope outlet.	
		Hand or foot operated.	

76	Electro	 With bipolar output power profile to provide good resolution to permit small changes in power levels for delicate work. Spray Coagulation for the Trans Urethral Resection (T. U. R) and Endoscopic procedures in urology. Adaptive REM Monitoring: With REM facility Alarm enables in case of nonpolar output disables. Technical Specifications: Output Power PURECUT 400W at300Ω BLEND1 300W at300Ω BLEND2 250W at300Ω BLEND3 200Wat300ΩCONTACT COAG120Wat 500Ω SPRAYCOAG 70W at 300Ω BIPLAR COAG80W at100Ω BIPLAR CUT 80W at100Ω Operating Frequency: 400KHZ+10% or better Input Voltage: 220V, 50Hz Standard Accessories Footswitch 2 pedal with cable Footswitch 1 pedal with cable Disposable Foot switching pencil with cable Disposable Foot switching pencil with cable Reusable Bipolar forceps and Cable asset Reusable Bipolar forceps and Cable asset Reusable patient plate with cable for adult Set of electrodes (6Pieces) for reusable and disposable handle Power cable Locally manufactured trolley General Design: 	В
	Mechanical Operation	 The tabletop should be 100% radiolucent material & X-Ray access. 5 sections table plate 	
	Table	 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. 	
		 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	
I		• Lateral Turn left: 15° or better	

		 Lateral Turn right: 15° or better Trendelenburg position: 25° or better Reverse Trendelenburg position: 25° or 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 Battery operated and all positions and angles must be controlled with remote. Mechanical Function: 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 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: ± 10% of degrees and measurement's will not be considered as deviation. 	
77	Emergency light with single reflector AC/DC Or Examination light AC/DC	 LED light source Portable Light intensity 100,000 lux at 1 meters or better LED life of 50,000hours or more Color Correction to 4000degKelvin With intensity light control Mechanical: 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. 	В
78	EMG 4 Channels	•A/D conversion resolution: 14 Bits or better •Input Impedence: > 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	В

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.	
Desktop (branded) CPU Core i 5 Processor: 3.2 GHz. Or better	
CPU Core i 5 Processor: 3.2 GHz. Or better	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	1
•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:	
1. EMG Interface / Junction Box 01	
2. 26G Concentrate Needles 25	
3. Needle Holder 01	
4. NCS Cable Reusable 01	
5. Ring Electrode 03	
6. Surface Electrode 50	
7. Ground Electrode 01	
79 ENT Main Unit	В
• Durable steel casing, non-rusting, long lasting	
• 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 edinatella from 0.1 to 4 horses.	
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. 	
Medication reservoir be made of stainless steel, should be	
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 since formal	
rinse funnel. Worm water ringing Davigs with outcelevable steinless steel handle	
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 300LED/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:
- 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 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 Head rest-15cm with adjustable height. 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 Comfortably cushioned seat. 	
80 Fracture Operation Table with Ortho Traction Attachment	• General Design • Stable base construction with four castors for easy movement. • Manual base brake, lateral tilt and Trendelenburg adjusted by hand crank, base cover, side rails, accessories & clamps made of stainless steel. • 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 cm • 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 foot boot	B

		The tractor range is 200 mm and elevation range 200 mm.	
		=+ 10% variation in furniture	
81	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
82	Gynae Vacuum Suction Apparatus/vacu um 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
83	Head Light with CoolIlluminatio n	 White cold light illumination LED with 30000 Lux or better With 5500 Kelvin. Adjustable headband with washable inner padding. On / off switch on battery compartment. With Charger. Backup time 3 hrs or more. 	В
84	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 faults. Visual and audible alarm for Tube disconnect leaks, tube blockage, hardware faults and audible failure alarm. Supplied with heated wire patient breathing tube and nasal cannula of different sizes It should be compatible for use of Tracheostomy patients Accessories: Disposable heated wire Paient breathing tube having sizes as small, medium and large Disposable Nasal cannula having sizes as small, medium and large Local made trolley. 	В
85	Humidifier	 Adjustable exit steam Moisture sensors for adjusting required moisture. Transparent water container. Easy to clean thermo steam maker parts. 	В

		 Applicable to create desirable atmosphere for children. Built-in circuit breaker to be operated in time of dry up. Must have cool body all through the operation. Should have thermo steamer element with Teflon resistant coating. Easy cleaning. 	
86	Hydralic Operation Table	 Manual base brake, lateral tilt and Trendelenburg adjusted by hand crank, base Cover, side rails, accessories & clamps made of stainless steel. Tabletop Divided into 5 sections including head plate, back plate, seat plate and split leg plates. Table top elevation controlled by hydraulic system, with sliding table top 30 cm or more for unrestricted image intensifier access, with side rails for the insertion of X-Ray cassettes (table top made of acrylic sheet plates for X-ray radiography). Full set of hydraulic control system for hydraulic lock protection Size: 2000x500x750 mm ± 10 % Trendelenburg/ Reverse Trendelenburg 25°/25°each Lateral Tilt Left/Right +15°/+15°each up ≥40°& down ≥90° Standard Accessories: Mattress set, Pair of arm rest with quick dis-connectable clamps. Adjustable head rest. Pair of shoulder supports. Lithotomy pole with universal swivel clamps. Anesthesia frame 1 Nos Infusion rod 1Nos Foot rests 2 Nos. Side supports 2 Nos With inbuilt Kidney Elevator Facility 	В
87	Indirect Ophthalmoscope	 Brightness for difficult examinations 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 	В
88	Infant Warmers (Radiant Warmer)	Mobile infant warmer with integrated baby bassinet unit that Accommodates use of resuscitation equipment for intensive care of neonate. Technical Specification: - Infant warmer system to provide controlled source of radiant heat for infant. Temperature Control(Skin). 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.	В

			1
		Built-in examination light Built-in examination light	
		Built-in air/gas driven venture suction system Tilting large had aletterm switchle for years acceptage with	
		Tilting large bed platform suitable for x-ray cassettes, with	
		cassette holder.	
		Bed with mattress having Trendelenburgand reverse Trendelenburgand reverse	
		Trendelenburgposition.	
		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. 	
		 Infant facemasks (Large, Medium, Small 	
89	Infra-Red	TI C. IM	В
0)		 Floor Stand Type Radiators: 3 X 150 W or better 	
	Radiator Large	Automatic cut off timer	
		Timer adjustment: upto 15 minutes Mayurtad on 4 on more legislable posters	
		Mounted on 4 or more lockable casters A divide blackable basis by	
0.0		Adjustable height	-
90	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	
91	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	
		With all accessories.	
92	Laboratory	Microprocessor controlled Laboratory Incubator with the following	В
	Incubator	specifications	
		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	
	I		I

		 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 	
93	Microtome	Fully Automatic Microtome Machines with the following specifications:	В
	Machines	 Applications" Sectioning of Paraffin embedded specimen for routine and research histology. Section thickness range: 0.5-60 um or better on either side According to manufacturer design Specimen Retraction: 20 um Trimming Thickness: 1 um to 600 um According to manufacture design Displacement of blade holder Base: Vertical and horizontal direction Vertical Cutting stroke length: 70mm or more 	
94	Mini Autoclave for dental	 Electrical Requirement: AC 220V / 50Hz Mini autoclave Class B type Capacity 18 liters or more (Bench top) Microprocessor controlled digital display Automatic functioning Pre and post fractionated vacuum. Sterilization temperature:121°c to134°c With demineralizer (Brand, model and make must be mentioned) 	В
95	Nebulizer	1. Maximum compressor pressure 2.5-3.0 bar 2. Nebulization rate 0.3 ml / min 3. Compressor air flow 10lit / min or better 4. Particle size(mmad) 0.5m to 5m 5. Noise level 55 db 6. Electrical requirement 220v/ 50Hz Nebulizer assembly and Accessories: i. Tubing ii. Nebulizer cup iii. Nebulizer insert iv. Nebulizer cap v. An adult mask vi. Mouth piece vii. extra filters	В
96	Ophthalmoscope	 Branded 3.5V Ophthalmoscope Rechargeable Handle Carrying Case Battery operated 	В

97	Ophthalmoscop e +	Branded ophthalmoscopeDesigned to ensure Ultimate control.	В
		 Lenses graticules and filters can all be easily changeable. 	
	RetinoscopeRec	Xenon illumination	
	hargeable	Positive Action wheel.	
		• Comprehensive Lens Range +29D to -30D.	
		• Swing over Red Free Filter.	
		Professional Retinoscope suitable for Streak or Spot.	
		• Interchangeable soft brow rest.	
		• Focal illuminator,	
		With Handles. Spare bulbs. Protective case.	
98	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)	
		o 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. 	
		• 2 batteries	
		• Charger	
99	Oxygen	• Micro Processor controlled.	В
77	• •		Б
	Concentrator	• Oxygen Flow Range: 0 to 10 litter per Minute	
		• Noise level (<45dbA).	
		• With filter.	
		• With OPI (oxygen purity indicator) & Alarm at very low oxygen	
		level.	
		• Audio visual alarm for:	
		• Power loss, Low pressure, air leak, hardware	
		failure, Mechanical Failure, Overheating and High Pressure.	
		Oxygen Percentage level:	
		• 1-10 Ltr per Minute 95%±3% or better	
		• With Humidifier	
		With Connecting Pipe	
		• Mobile on 04 Castors	
100	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 	
	1	- Input Supply 250 v AC, 50 Hz	

		Paraffin Embedding Wax Bath	
101	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	
102	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: -5~100°c ±0.4°c. Resolution: 0.1°c. 	
		• Accuracy: ±0.5°c	
		Display:	
		• Display: LED / LCD.	
		Power: DC Power Adaptor.	
103	Phototherapy	Flexible positioning	В
100	Unit	• LED type	
	Cint	• 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)	
104	Point of care	Microprocessor control portable Fluorescence Immune-	В
	Testing	chromatography technology	
	(POCT)	 Test Coagulation, ABGs, Basic Haematology, 	
	analyzer	Electrolytes/Chemistry, HCG Analyteand etc,	
		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	
	1		

105	POP cutter /	Crossle 0.11000	В
103		• Speed: 0-11000 rpm	Б
	Plaster Cutting	• Current: 10 Amp	
	Saw	• Frequency: 50 Hz	
		Blade Size: 7.5 mm to 2.5 mm	
		Voltage: 220 Volt	
106	Portable	Operating Light with: -	В
	lamps	• Single dome	
	AC/DC	On Balance mobile Stand	
	or Emergency	•LED light source	
	light AC/DC	• Light intensity Max 100,000 lux or better	
		•LED life of 50,000hours 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	
107	Pulse Oximeter	Hand held pulse oximeter	В
107	T disc Chimeter	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	
		D 1 1 02 1 12/	
		• Accuracy: O2 saturation 80-100% ±2%	
		• 220V/50Hz	
		Rechargeable Battery backup: 5 hours or better.	
108	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.	
		• 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 and A C 1251 and 2000 H	
		High tone audiometry for AC 125 hz - 8000 Hz	
		High tone audiometry for BC 250 hz - 8000 Hz	
		Selectable range of Test frequencies.	
		Accessories:	

		Air conduction has dead	
		Air conduction head set. Beginning the state of the	
		Bone conduction head set Betieve many approximately	
		• Patient response switch	
100	7.0	Micro phone.	_
109	R.O water	RO Water Purification System to operate 10-12 Dialysis	В
	purification	Machines through store tank, with imported parts locally	
	plant for	manufactured	
	dialysis	The system should comprise of pretreatment modules such as	
	Machine	Pre RO micron filter for Bacterial protectionSand 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 membranesSize 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	
		• 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.	
110	Resuscitation	Overall dimension 2.5'(L) x 2'(W)x3' H or better	В
	Trolley / ICU	• Electro-galvanized steel sheet structure/ aluminum alloy/ ABS,	
	Trolley / CPR	Epoxy powdered coated, finish rounded, edges washable and can	
	Trolley	bed be infected.	
	,	Push handles one end.	
		Height adjustable IV Holder rod.	
		• Shelf for defibrillator / ECG can 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.	
	<u> </u>		

		Accessories	
111	Shadow less lamp (Ceiling type) or Ceiling OT light for minor	1. Oxygen Cylinder small size 2. Oxygen Regulator 3. Oxygen flowmeter 4. 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 5. Laryngoscope with 3 blades 6. Magill Forceps 7. Endotracheal Tubes set of 12 tubes 8. Pen torch 2 qty 9. Artery forceps 2 10. Dressing scissors 2 • Shadow less light ceiling type, including single arm, 360 degree rotary stable and suspended • The light should be height adjustable and focused according to the size of the patients surgical area • Dual Dome • Intensity control available.	В
	OT or Ceiling OT light for post- mortem	 LED light source Light intensity: Maximum 160,000 Lux + 160,000 or better at 1 meter distance LED life 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 5 hours or more. Complete with Installation 	
112	Sonic Aid Machine/Fetus Heart Detector/ Feotoscope	 Fetal Heart Beat/Sound Detection & Rate Monitoring. Heart rate digitally displayed, Heart beat audible through the built-in speaker (earphone). Ultrasonic frequency/output: 2 MHz,10mW/cm2 Audible output : 0.6W (Speaker output: Max.20W) Heart rate detection range: 50-240bpm Power requirements: Rechargeablebattery. 	В
113	Spirometer/ Pulmonary function unit	Examination of pulmonary system and to measure & display lung function parameters and must meet ATS/ERS standards 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	В

	<u>, </u>		
		 Overlaying of previous test curves for comparison. 	
		The unit have LCD/TFT screen to display real time relevant	
		information and also have a thermal printer.	
		 Rechargeable battery backup time at least 2 hours 	
		• Flow meter Bi-directional digital flow sensor (flow: up to 15L/s or	
		more, accuracy: within 3%)	
		 Dynamic Resistance: less than 1 cmH2O /L/Sec. 	
		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	
111	aa Fil	• Input power 220VAC, 50Hz	
114	SS Filtration	Autoclavable filter holder	В
	Assembly	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	
115	Suction machine	 Mobile suction pump Oil-Less along with 4 anti- static wheels with 	В
	Heavy Duty/	lock.	
	Electric suction	 Convenient for operation, with following performance features: 	
	Machine	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 	
116	Syringe pump	Power requirements: AC: 100-240V; 50Hz	В
	8 1 1	• Syringe size: 5ml, 10ml, 20ml, 30ml, 50/60ml	
		• Increment: 0.01 ml/h	
		Modes: Volume Weight and rate	
		 Delivery / Flow rate: 0.1-999.9ml/h 	
		• Volume range 1-9999ml	
		Occlusion Pressure: Adjustable	
		Full alarm system	
		<u> </u>	
		Built-in battery backup: 2 hours or better Western Proof Condex IDVA on Equippolarit Proof Condex IDVA on Equippolarit On the cond	
117	Thoronoutio	Water-Proof Grade: IPX4 or Equivalent Microprocessor controlled Therepout is Ultrescand with the following.	В
117	Therapeutic	Microprocessor controlled Therapeutic Ultrasound with the following	D
	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 	
		• US applicator large 5 cm2	
		• US applicator small up to 1.00 cm	
		Standard Accessories:	
		Multi frequency treatment	
		Holder treatment head	
118	Transcutaneou	 Channel: Dual isolated between channels 	В
	s Electrical	LED display	
	Nerve	• Pulse rate: 2 – 150 Hz 1Hz / Stp	
	Stimulators	• Pulse width: 30-300 micro sec 10 micro sec / Stp	
	(Tens)/Electric	• ON time 2-90 seconds 1 sec /Stp	
	Stimulator	• OFF time 0-90 seconds 1 sec / Stp	
	Stillulator	• 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 galvanic ally 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	
	L	1	l

		• 4 x Patient cable 2-core & 2 mm male plug - black, with colored	
110	T71, T7' 1,	clips	D
119	Ultra Violet	• Floor Stand Type	В
	Lamp	• Radiators: 3 X 350 W or better	
	Large	Automatic cut off timer	
		• Timer adjustment: up to 15 minutes	
100	T71, T7' 1,	Mounted on 04 or more lockable casters	D
120	Ultra Violet	• Floor Stand Type	В
	Lamp	Parabolic reflector 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	_
121	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.	
122	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	
		• Display: 5" large LCD or better.	
		• Memory: 1000 sample results.	
		Out Put Built-in thermal printer.	
123	Vein Detector	Advance DLP (digital light processing) technology-based vein detector	В
		with the following specifications:	
		 Handheld portable Vein finder / showing system. 	
		• 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.	
124	Vortex mixer	Touch operation or continuous mode with variable speed control 0- 2600 rpm.	В
		• 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%.	

125	Water Bath	Capacity: 20liters or more	В
		Microprocessor controlled	
		Digital display for temperature controlled	
		• Temperature:	
		• Range: Ambient to 99 oC	
		 Accuracy: +-0.5 °C Uniformity: +- 2.0 °C 	
		Material:	
		Bath: seamless stainless steel with lid	
		 Case power coated steal 	
		Safety: over temperature cut-off, Alarm	
		• Electric supply: 220v,50Hz	
126	Air 240 Cft	The cylinder must be of standard quality.	С
	Cylinder	BOC/Equivalent testing certificate must be provided	
127	Air 48 Cft	The cylinder must be of standard quality.	С
	Cylinder	BOC/Equivalent testing certificate must be provided	
128	Baby Cots	Powder coated mild steel 18 SWG tubular frames.	C
		 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.	
		• Laying area 55 cm x 100cm.	
129	Bed side	Overall size of locker 40cm width, 40cm depth, 80 cm height.	C
	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. Thyself, B. I. Charles, C. Charles, C	
120	Dad aida ataal	• FINISH: Polyester powder coated finishing	<u> </u>
130	Bed side steel	Stainless Steel frame made of hollow pipe diameter 1" Shaped for two stees. Front and room logg provided with steel hors. Wooden steen.	С
	stairs	two steps. Front and rear legs provided with steel bars. Wooden step duly covered with rubber mat and sides dressed with	
		aluminum/strip/Rubber.	
131	Bed with side	Bed : Over all dimension (LxWxH) 195cmx 85cmx 55cm (±10)	С
	Table and over	Four section beds with all welded enameled main frame constructed	
	bed trolley	from rectangular section steel tube of 16SWG steel sheets.	
	(local)	Adjustable back rest and leg section by means of two independent	
	(====)	cranks with square threads pitch revolving in steel nuts by means of	
		rectangular handle.	
		• Removable bed ends fitted with 10mm laminated plastic/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.	

132	Beds with side table over bed trolley (imported)	 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 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 cabinet. Base made of 1" round/square pipe. FINISH: Polyester powder coated finishing OVER BED TABLE: Top made of Stainless steel. 100cm, 100cm, 40cm 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) Bed: Over all dimension (LxWxH) 195cmx 85cmx 55cm (±10) The Bed must facilitate a metal constructed, mattress surface covered with 4-section abs Materials, ABS covered sub-frame. 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 bed is mounted on double ball bearing, swivel castors of nontin and weather proof rubber. Two fixed at head end and two 	C
		 tin and weather proof rubber. Two fixed at head end and two swiveling with independent breaks at foot end. Rubber bumpers at all four corners Four Mattress holders (2 at each side) With I V pole. Structure of the platform shall be smooth and seamless. 	
		 Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth. All the joints shall be made smooth. Bed side Locker: 	
		 Overall size of locker 40cm width, 40cm depth, 80 cm height. Made up of SS 18 SWG. Top made of CP galvanized steel sheet, One drawer. One cabinet with space between the drawer and cabinet. Base made of 1" round/square pipe. FINISH: Polyester powder coated finishing 	
		OVER BED TABLE:	

		 Top made of 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) 	
133	CO2 240 Cft Cylinder	 The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided 	С
134	CO2 48 Cft Cylinder	 The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided 	С
135	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
136	Cylinder Trolley 240 CFT	 Main structure made of 1" di acicular pipe Mobile on two castor of 8" dia For carrying 240Cft cylinder With safety chain for holding cylinders 	С
137	Cylinder Trolley 48 CFT	 Main structure made of 1" di acicular pipe Mobile on two castor of 5" dia For carrying 48Cft cylinder With safety chain for holding cylinders 	С
138	Dissection Table(large)/ Mortuary table	 Approximate dimension; 6ft X2ft X 3ft (LxWxH) It should made of stainless steel with a frame made of rugged torsion resistant stainless steel profile It should have 4 solid rubber swivel 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 ltrQty 2 Headrest Body support shim Foot rest 	C
139	Dissection Table (small)/ Mortuary table	 Approximate dimension; 4ft X2ft X 3ft (L x Wx H) It should made of stainless steel with a frame made of rugged torsion resistant stainless steel profile It should have 4 solid rubber swivel 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 	С

140	Dressing Trolley	 It should have 4 solid rubber swivel 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 ltrQty 2 Headrest Body support shim Foot rest Constructed from stainless hollow pipe of 1 inch With two shelves made of stainless steel, on top and bottom with side guards. Two stainless steel drawers under the top shelf. Stainless steel bucket and bowl with holders. Mobile on 100mm dia rubber castors. Push handle for easy movement. 	С
1.4.1	Duin stand	Size: (70 cm L*50 cm W *90 cm H)	С
141	Drip stand	 Heavy Weight base mobile on 50 mm dia castors Powder coated base and column with telescope adjustment. 4 ports I/V rod of wire diameter 0.5 mm. 	
142	Dry Clean	White cage trolley for transporting bulk linen.	С
	Trolley	Four rubber wheels.	
		Dimension 720mmx960mmx850mm	
		Weight 15kg.	
143	Electric	Motorized ,battery operated Cardiac /ICU bed bed with remote	С
	Cardiac Bed/ICU Bed	controller The Ded word for Water a weet learned and weet and weet learned and weet learne	
	(Imported)	• The Bed must facilitate a metal constructed, mattress surface covered with 4-section abs Materials, ABS covered sub-frame.	
	(imported)	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/ Nursingpanel 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 0-35⁰ 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 hag hangers on both sides of the bed. Gradually adjustable footrest. Sinch dia casters two of them must be lockable diagonally. 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 width 85 cm or more. Overall length 195cm or more. Overall length 195cm or more. Side Raifing/ side guard The bed should have facility to take X-Ray of the patient over the bed (cassette holder). Mattress should be provided with high density good quality according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, anti-bacterial, and water proof, shaped according to the bed size, and the size of the shaped size, and the size of the shaped size, and the size of		T		1
as computers, servers, motors, transformers, and appliances. OHSAS 18001 health and safety management certificate must be available. 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 also include flammable gases such as propane and butane. Class C fires are fires involving energized electrical equipment such	144	1	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 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 width 85 cm or more. Overall length 195cm or more. Side Railing/side guard The bed should have facility to take X-Ray of the patient over the bed (cassette holder). 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. 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 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.	C
OHSAS 18001 health and safety management certificate must be available. 145 Fire extinguisher 6kg 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 also include flammable gases such as propane and butane. Class C fires are fires involving energized electrical equipment such				
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Class C fires are fires involving energized electrical equipment such				
as computers, servers, motors, transformers, and appliances.				
			as computers, servers, motors, transformers, and appliances.	

		OHSAS 18001 health and safety management certificate must be available	
146	Fire extinguisher	Dry Chemical fire extinguishers extinguish the fire primarily by interrupting	С
	9kg	the chemical reaction of the fire triangle.	
		Type: Wall mounted type.	
		• Size: 9kg.	
		• 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 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.	
		OHSAS 18001 health and safety management certificate must be available.	
147	Folding	Frame in four parts constructed from fully plastic-coated M.S.	С
	Screen	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 and Screws	
		Mobile on eight, castors of 75 mm dia.	
		Curtain of wash and wear polyester cloth/ plastic cloth in variety	
		of colors.	
148	Gynae	Size: 4X7 or betterCouch top made in 3 sections.	С
140	examination	 Couch top made in 3 sections. Leg section removable. 	C
	couch	Backrest adjustable with friction clutch	
	Couch	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.	
149	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	
150	Manual	Hydraulic Hospital Bed suitable for use in intensive / coronary care	С
150	Cardiac	units.	C
	Bed/ICU Bed	Feature:	
	Dea/ICO Dea		
		 Adult Intensive Care bed with head and foot panels Height adjustment with foot pedals 40cm to 75cm 	
		 The bed must have Trendelenburg and reverse Trendelenburg 	
		adjustment.	
		Between $\pm 12^0$ 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 	
151	Nitrous Oxide240 Cft	 according to human body or bed position. The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided 	С
	cylinder		
152	Nitrous Oxide48 Cft cylinder	The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided	С
153	Orthopedic Traction Bed	 Head & Foot Panels: Elegant High Size: L195cm×W85cmor 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 	С

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 plustic panels. Platform fitted with epoxy painted steel bars of 18 SWG steel. The bed is mounted on double ball bearing, swivel castors of non- tin and weather proof rubber. Two fixed at head end and two swiveling with in dependent breaks at foot end. Rubber bumpers at all four comers Four Mattress holders (2 at each side) With 1 V pole. Structure of the platform shall be smooth and seamless. Platform shall not contain cavities in order to avoid hideouts/safe areas for germs. All the corners of the platform shall be round and smooth. All the joints shall be made smooth With quality molded panels. Stainless steel Balkan beam. With frame and pulley attachment 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) 154 Oxygen,240 Cft cylinder The cylinder must be of standard quality. cylinder BOC/Equivalent testing certificate must be provided The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided The cylinder must be of standard quality. BOC/Equivalent testing certificate must be provided The bod 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 Within height 45cm			Red: Over all dimension (LXWXH) 195cmx 85cmx 55cm	
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Approximate dimension Overall length 195cm or more Overall width 85cm or more		bed (Imported)	 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, 	
 Overall length 195cm or more Overall width 85cm or more 				
Overall width 85cm or more				
Minimum height 45cm			<u> </u>	
			Minimum height 45cm	

	1	T T	
		Maximum height 75cm	
		• Back section up/down:0-70°	
		• Knee section up/down:0-35°	
		Standard accessories	
		Head and foot board	
		Beside rail	
		Hand set	
		Drip hole 1 no. of IV rod	
		Urine hook	
		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.	
157	Patient Trolley	• Single crank,	C
	(Local	 Rubber bumper guards on all sides, 	
	&Imported)	 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".	
158	Revolving steel	 Stool with 16 SWG stainless steel structure and seat of 	C
	stool	diameter 300mm.	
		 Height adjustable by simple spun mechanism. 	
		 Height adjustment not less than 53cm to 68cm. 	
159	Stretcher	• Lenth: 6 ft or more	С
	(Imported)	• Width: 2 ft or more	
		Made of stainless steel	
		• 4 rubber castors having 23 cm dia	
		Castors should Lockable	
		Top made of stainless steel	
160	Stretcher	Lenth: 6 ft or more	С
100	(Local)	Width: 2 ft or more	C
	(Local)		
		• 4 rubber castors having 23 cm dia	
		Castors should Lockable The state of t	
1.51		Top made of stainless steel	~
161	Surgeon	• Stool with 16 SWG stainless steel structure and seat of diameter	C
	revolving steel	300mm.	
	stool	Height adjustable by simple spun mechanism.	
		 Height adjustment not less than 53cm to 68cm. 	
		Mobile on 4 castors.	
		Sample to be approved.	
162	Wheel Chair	Non Folding Wheel Chair,	С
		• 2 big wheels and 2 small wheels	
		should have footrest/ Foot support	
	1	Should have to decomply the mapped to the paper to the pa	

With Safety belt. Should have backrest/ Lumber support			With Cofety halt	
Comfortably cushioned seat width 38 x 43cm, water proof covered Sample to be approved.			•	
Capacity: - Okg - 150kg or better. Days of the sample to be approved.				
Sample to be approved. Dadd				
Scale to have low level platform finished with non-slip cover, measuring Dail to be fitted at waist height steel yard arm.				
scale measuring Dail to be fitted at waist height steel yard arm. Capacity: -0 kg -150kg or better. Fitted with imperial and metric height measuring rod. Aunbo bag	163	Adult weighing	1 11	
Capacity. O kg - 150kg or better Fitted with imperial and metric height measuring rod.	103		*	D
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 on an oxygen source up to 100%. Unit to be supplied with a carrying case. Re-usable and must be autoclavable		Scale		
Ambo bag Adult			1 7 9	
Adult 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 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. 500ml for adult and child Tidal maximum volume: approx. 2500ml for adult and child Tidal maximum 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 to 100%. The resuscitator must be able to ventilate through a mask and/or endo tracheal tube. Re-usable and must be autoclavable The balance to weigh up to 400g in 1mg increments. The balance to weigh up to 400g in 1mg increments. To have a 7 digit luminous display with overload protection. To come complete with data input and output terminals and a printout terminal To have a 7 digit luminous display with overload protection. To come complete with data input and output terminals and a printout terminal Anesthesia Set Facemasks different sizes re-usable Airways different sizes re-usable Airways different sizes re-usable Airways different sizes re-usable Pediatric circuit re-usable Ambo bag Complete kit in a carry bag including: Infant Resuscitator: Silicon Resuscitator: Silicon Resuscitator: Silicon Resuscitator: Silicon Resuscitator: Silicon Resuscitator:	164	Ambo bag		D
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be supplied with a carrying case. Re-usable and must be autoclavable 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 to 100%. The resuscitator must be able to ventilate through a mask and/or endo tracheal tube. Re-usable and must be autoclavable The balance to weigh up to 400g in Img 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 Complete accessories anesthesia set for children Anesthesia Set IV Canola's different sizes Facemasks different sizes re-usable Airways different sizes re-usable Airways different sizes re-usable Airways different sizes re-usable Airways different sizes re-usable Pediatric circuit re-usable Ambo bag Complete kit in a carry bag including: Infant Resuscitator: Silicon Resuscitation Bag with infant face mask sizes 00 & 01				
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Apparatus • Silicon Resuscitation Bag with infant face mask sizes 00 & 01	168	1		D
		Resuscitation		
		Apparatus	9	
with non-re-breathing valve with 40cm of H2O pressure release			with non-re-breathing valve with 40cm of H2O pressure release	

169	Baby weighing scale	 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 O2tubing 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: Portable Oxygen Cylinder 1.5 lit complete with oxygen regulator and tubing. Complete kit in one carrying case. Scales to be highly accurate and stable. Touch controls with splash proof key board. Removable baby weighing pan. Automatic hold, slow and tare controls. Capacity: 0 kg to 30kg or better. 	D
170	Bed Sheet	Made of best quality cotton ,single standard size:- 60" x 100" Color: White	D
171	Binocular	Binocular Head band	D
1/1	Magnifier	 W/Optical Grade Lens plate , Magnifier 2 to 4 times. 	
172	Blanket	Best quality, camel color, size: 60" x90"	D
173	Blood Screening Counter	 8 keys laboratory counter with totalizer 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. 	D
174	Box for disposal of sharps	 Material: Plastic Capacity: 15 Litter or more Semi translucent lid Suitable for hazardous items such as syringes, broken blades, hooks, bottles and glass shards 	D

175	BP apparatus with stand	 Constructed from shatter resistant materials fully protected plastic manometer tube with clear reading scale, range 0 to 300 mm Hg. Integral mercury reservoir. Spring coil tube with bulb. (Pump). Pediatric and adult cloth cuff with Velcro fastening cuff holder. Unit mounted on stable 4 to 5 castor mild steel base. 	D
176	BP mercury desktop with paeds and adult cuff	 Sphygmomanometer in lightweight case. Recessed plastic manometer tube range 0-300mm Hg with shatter proof reservoir. Velcro fastening cuff for adult and Paeds. Provision for storage for bulb, valve tubing and cuffs. 	D
177	BP Set Wall Mounted	 Sphygmomanometer Mercurial Wall Mounted Sphygmomanometer constructed from shatter proof materials Fully protected plastic manometer with clear reading scale, range 0-300mmHg to be mounted on wall. Integral mercury reservoir, spring coil tube, bulb, valve, Velcro fastening cuff adult & Pediatric. 	D
178	Breast pumps	Made of best quality plastic material.	D
179	Centrifuge Tubes (Glass)	 Good quality made from glass. Tubes are conical- bottomed, with a skirt that extends beyond the bottom of the tube so it can stand without support. Branded 	D
180	Centrifuge Tubes (Plastic)	 Good quality made from plastic. Tubes are conical- bottomed, with a skirt that extends beyond the bottom of the tube so it can stand without support Branded. 	D
181	Clamps	For hanging of films, good quality	D
182	Containers for sputum	Sample based	D
183	Containers for Urine	Sample based	D
184	Cover Slip	 From good quality glass material, Size:- 25.4x76.2mm 1.1.2mm thick 	D
185	DLC Counter	 Size: Standard 8keys. Heavy duty, resistant plastic housing. Dual reset knob. Signal bell when 100 cells counted 	D
186	Ear Syringe	 Ear Syringe for cleaning of ear Stainless steel made Capacity: 10 ml or more. 	D
187	ENT Diagnostic Set (adult and Paeds)	 Adult &Paeds Diagnostic set comprising with 3 standard specula. With ophthalmoscope head. Battery Handle with chargeable batteries Nasal speculum, Laryngeal stem to take tongue depressor, 	D

		T 1 '	
		Laryngeal or post nasal mirror	
		• Antrum sheath.	
		 Large handle and two spare lamps. 	
		All to be supplied complete in plastic covered case.	
188	ESR Pipettes	Made from Pyrex with graduated scale	D
		Branded	
189	ESR stand for	 Good quality , washable, quality material & can hold five tubes 	D
	five Tube		
190	Examination	Good quality, Water resistant ,runtime 1 hour, weight 35 g	D
	torch	without battery ,head diameter 14mm.	
191	FSP Pipette	Good quality , washable, quality material	D
171	Tor Tipotto	Branded	
192	Glass pipettes	Made from durable material with graduated scale.	D
172	(different	Branded	
	sizes)	Brunded	
102	, , , , , , , , , , , , , , , , , , ,		D
193	Glass slide	From good quality glass material branded	D
194	Glass Wares	From good quality glass material branded	D
195	Haemo	 Manually operated, complete set of counting chambers, 	D
	cytometer	• Cover slips, WBC pipette, RBC Pipettes (Imported).	
196	Hangers	Hanger to be manufactured from stainless steel and to	D
	Various Size	Have a clip at each end to keep film taut.	
197	Immersion	For warming of developer, good quality	D
	Rod		
198	Jester (1 to 10	Branded	D
150	ul) Adjustable	Good Quality	
199	Jester (10 to	Branded	D
199	`		
	100ul)	Good Quality	
	Adjustable		
200	Jester (100 to	Branded	D
	1000ul)	Good Quality	
	Adjustable		
201	Jester Fix	Branded	D
	1000ul	Good Quality	
202	Jester Fix	Branded	D
	100ul	Good Quality	
203	Jester Fix 10ul	Branded	D
203		Good quality	
204	Jester Fix 20ul	Branded	D
	JOSECT TIA ZOUI	• Good Quality	
205	Jester Fix	Branded	D
203	500ul	• Good Quality	
206	Jester Fix 50ul		D
206	Jesier FIX 3001	Branded Good Quality	D
207	Jester Fix 5ul	Good Quality Described	D
207	Jesier FIX Jul	Branded Good Quality	D
	1	Good Quality	1

208	Lancets	From good quality material.	D
209	Laryngeal Face Masks (Small, Medium & Large sizes)	 Branded Each set have Sizes; Large, medium &small Manufactured from clear, non-toxic implantation tested autorclavable PVC. Integra/nylon bite block Imported 	D
210	Lead Apron	 Best quality, imported Flexible lead rubber in tear resistant plastic cover Sleeveless, half-length at back Fastening with crossed elastic straps with Velcro end 0.5mm lead thickness for small, medium and large sizes 	D
211	Lead Glass Shield	 3 part X-Ray protection screen with metal frame. Size of each part should be 7'x2.5' covered with lead sheet of 0.2mm Easily moveable to all sides on at least 2 castors on each part. Lead glass size 200x200mm,thickness 2mm. 	D
212	Lead Gloves	 Best quality, imported Flexible lead rubber in tear resistant plastic cover 0.2mm lead thickness inside gloves. 	D
213	Lens Set (Plus 78 D)	 Three mirror Universal lens laser coated. Standard 78D lens laser coated. Standard 90D lens laser coated Super field NC lens laser coated 20D Indirect ophthalmoscopy lens laser coated 	D
214	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	_
215	Manual Film Processor	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 • The processing unit to be equipped with a thermostatically • controlled water jacket containing S.Steel processing tanks together with a separate unheated running wash section • Overall dimensions: 570x650x825 mm high with a splash • Back 230mm high.	D
215	Manual Film	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 • The processing unit to be equipped with a thermostatically • controlled water jacket containing S.Steel processing tanks together with a separate unheated running wash section • Overall dimensions: 570x650x825 mm high with a splash	
	Manual Film Processor Manual Suction Apparatus for	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 • The processing unit to be equipped with a thermostatically • controlled water jacket containing S.Steel processing tanks together with a separate unheated running wash section • Overall dimensions: 570x650x825 mm high with a splash • Back 230mm high. • Developing and fixing tanks 3 gallon capacity each. • Foot operated suction machine with heavy duty piston. • Pressure gage, • Suction Jar 1000ml with pipe 2 meters long and suction	D
216	Manual Film Processor Manual Suction Apparatus for ICU Mattress Foam with Raxine	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 • The processing unit to be equipped with a thermostatically • controlled water jacket containing S.Steel processing tanks together with a separate unheated running wash section • Overall dimensions: 570x650x825 mm high with a splash • Back 230mm high. • Developing and fixing tanks 3 gallon capacity each. • Foot operated suction machine with heavy duty piston. • Pressure gage, • Suction Jar 1000ml with pipe 2 meters long and suction nozzle.	D

	Stand Infant	 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 	
220	Micropipette Digital Different size	 Measuring range 21 to 99 cm. Standard sizes Branded 	D
221	OPD chairs S.S	 3-seater chairs (Steel) fixed / removable Fitted on steel structure of section 40mm x 60mm. With seating area approximately 51 cm x 50 cm With silver enameled finished. The structure may be able to be fixed on the floor / replaceable. Imported, Good Quality 	D
222	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
223	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
224	Cupboard Steel Large	Sample based	D
225	ORS feeding containers and spoons	Good quality	D
226	ORS measuring jug	Good quality	D
227	OT Caps	Made of best quality, Color: Green	D
228	OT Gown	Operation Gown Markeen Cloth, size: Small, Medium and Large	D
229	OT Sheet	Made of best quality, Color: Green	D
230	OT Shoes	Made of best quality, Slipper plastic leather.	D
231	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
232	Oxygen Cylinder Key	 Good quality Oxygen Cylinder Key for 240 & 48 CFT cylinders 	D
233	Oxygen Flow Meter	Direct fitted to the Outlet BOC/Equivalent, included with the Humidifier.	D

		Nickel-plated brass base and body	
		Clear shroudExpanded lower scale 0-5Lpm	
234	Oxygen Flow	Direct fitted to the Outlet BOC/Equivalent, included with the	D
	Meter with	Humidifier.	2
	humidifier	Nickel-plated brass base and body	
		Clear shroud	
		• Expanded lower scale 0-5Lpm	
235	Oxygen gauge	Complete with regulator, gauge and standard accessories.	D
236	Peak Flow	Performance Date	D
	Meter	 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. Scalar Hat starmed aleah algoritant.	
		 Scale: Hot-stamped, alcohol resistant. Full measurement Range: 50 to 810 L/min or better. 	
		 With increament: 10L/min to 50L/min. 	
237	Pediatric	Reusable and good quality circuit, Imported.	D
	Circuit	Manufactured from clear, non-toxic implantation tested	2
		autoclavable PVC	
238	Pillow with	Standard size of best quality polythene Size: 24"x 15"	D
	cover	• Along with pillow cover: Size: 26" x 17", White Latha	
239	Pipette stands	Standard size stand made from stainless steel. Branded	D
240	Plastic Apron	For dark room water proof, good quality, imported.	D
241	Proctoscope	Manufacturer's mark must be indicated on all instruments.	D
	for adult &		
	child		
242	Randall Baker	Each set have Sizes; Large, medium &small	D
	Face Mask all	Manufactured from clear, non-toxic implantation tested	
	sizes set	autoclavable PVC.	
		Integra/nylon bite block	
		Imported	
243	Reagent	With good quality material.	D
	Bottles	Branded	
244	Refraction	• 35-Pairs-204 PCS and Universal Frame in Wooden carrying	D
	Box	case.	
		• Spheres: ±0.12 to±20.00	
		• Cylinders: ±0.25 to±3.00	
		 Firms: ½ to6 Auxiliaries: Blue, Red, Green, Brown, Plane (2pcs)-glass. 	
		 Auxinaries: Biue, Red, Green, Brown, Plane (2pcs)-glass. Occluder, Pinhole 0.5, 1.0, 1.5mm – leach Slit Disc0.5, 1.0mm- 	
245	Safe Light for	 Occluder, Finnole 0.5, 1.0, 1.5mm – leach 5m Disco.5, 1.0mm-leach. Wall mounted lamp for all blue and green sensitive X-Ray 	D

		 With two spare lamps (15 watts). Power requirement 220V/50Hz. 	
246	Sahli Hemoglobin meter	 Manual Hemoglobin meter with Hb pipette, Hb tube, bottle, glass rod, scanner for Hb Measuring 	D
247	Sam Circuit all sizes	Good Quality	D
248	Stethoscope	 Lightweight aluminum/ S S adult chest piece construction. Adjustable chrome binaural. Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips. 	D
249	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
250	Stylets Adult / Paeds	 Reusable, autoclavable and good quality, imported Nylon hard plastic PVC, different sizes (3, 4, 5, 6 & 7) 	D
251	Table Cover large	• Made of best quality, Size: 54" x 72"	D
252	Table Cover small	• Made of best quality, Size: 48" x 54"	D
253	Test Tube holder	Best quality Stainless steel holder.	D
254	Test Tube Racks Stainless Steel	 Good quality, washable, stainless steel rack and can hold 12 tubes. 	D
255	Test Tubes	Good quality glass material	D
256	Test Tubes Racks wooden	Good quality and finish wood and can hold 12 test tubes.	D
257	Tonometer	 Application tonometer with two prisms and weights complete in case. 	D
258	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. Maximum reading ranges from 6 feet or better Touchless thermometer for adults and kids adopts LCD digital display Temperature measurement in centigrade C and Fahrenheit F. 	D
259	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

260	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
261	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
262	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 withstand human load 	D
263	Wire Loops	Good quality material	D
264	Wooden Boxes	Good quality material	D
265	X-Ray Cassette 10 x 12	• Cassettes with H.S type intensifying screen.With green screen 10 x 12 with Green screen.for selection.	D
266	X-Ray Cassette 12 x 15 with Green screen	Cassettes with H.S type intensifying screen. With green screen for selection.	D
267	X-Ray Cassette 14 x 17	• Cassettes with H.S type intensifying screen. With green screen 14 x 17 with Green screen. For selection.	D
268	X-Ray Cassette 8 x 10 with Green screen.	Cassettes with H.S type intensifying screen. With green screen for selection.	D
269	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
270	Electric Geysers 10 Gallons	 Branded Electric Geyser 10 Gallon or more Storage Type Thermostat for Temperature Control Brand and Model Must be mentioned With Complete Installation 	D
271	Electric Geysers 15 Gallons	 Electric Geyser 15 Gallon or more Storage Type Thermostat for Temperature Control Brand and Model Must be mentioned 	D

		With Complete Installation	
272	Electric Water	Branded Electric Water Cooler 40 Litters or more	D
	Cooler 40	Stainless Steel Tank	
	Litters with	To be installed with 3-part Filtration unit	
	Filter	With Complete Installation	
273	Electric Water	Branded Electric Water Cooler 60 Litters or more	D
213	Cooler 60	G. 1. G. 1. T. 1	
	Litters with		
	Filter	To be installed with 3-part Filtration unit With Complete Installation	
274	Electric Water	With Complete Installation Output Description: White Control (OUT)::::::::::::::::::::::::::::::::::::	D
214	Cooler 80	Branded Electric Water Cooler 60 Litters or more Grand Report To the Cooler 60 Litters or more On the Cooler 60 Litters or more	
		Stainless Steel Tank	
	Litters with	• To be installed with 3-part Filtration unit	
	Filter	With Complete Installation	
275	Gas Geyser 30	Branded Gas Geyser 30 Gallons or more with cone	D
	Gallon	With thick glass wool to keep water Hot	
07.6	C C 50	With complete installation	D
276	Gas Geyser 50	Branded Gas Geyser 50Gallons or more with cone Will this land to the lan	D
	Gallon	With thick glass wool to keep water Hot	
277	AC 1 tone Split	With complete installation ACL 1 Complete installation	E
277	unit inverter type	AC 1 tone Split unit inverter type With Complete Installation	E
278	AC 1.5 tone	 With Complete Installation AC 1.5 tones Split unit inverter type 	Е
270	Split unit	With Complete Installation	E
	inverter type	With Complete Instantation	
279	AC 2 tones Split	AC 2 tones Split unit inverter type	Е
	unit inverter type	With Complete Installation	
280	ILR/Deep	Branded 16Cft, Double Door (Freezer & Fridge) with Racks	Е
	Freezer	and Baskets	
281	Refrigerator	Branded Double door,12 Cft Refrigerator	Е
	12CFT	With Complete Installation	
282		Branded Double door,14 Cft Refrigerator	Е
	Refrigerator	With Complete Installation	
	14CFT	•	
283	Refrigerator 18	Branded Double door,18 Cft Refrigerator	Е
	CFT	With Complete Installation	
284	Photocopier	Desktop type photocopier machine	
	Filotocopiei	Display: TFT/LCD display	E
		 All in one function: Print, Scan, Photocopy 	Е
		• Speed: 30 ppm or better	
		Paper capacity: 500 sheets tray	
		 Number of papers tray: 2 trays + 1 by pass 	
		Warm up time: 12 second or less for warm up the machine	
		Document feeder: RADF/DADF/AFD	
		Memory: 1 GB or above	
		• Power: 200-240 v	
		Connectivity: LAN / USB	
1		Stabilizer:	

		With Servo motor stabilizer.	
285	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	
		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:	
		Protections:	
		Alternator Protection: Overload and Short Circuit Protection.	
		 Overload and Short Circuit Protection. 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. Frequency.	
		Engine Oil PressureEngine RPM	
		Total Running Hours	
		Coolant Temperature (Digital)	
		Fuel level indication	
		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	

	!		, ,
		 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 mete), must be quoted. The supplier will be responsible for complete installation/ functionalization of the generator. 	
286	Generator 50	Genset Rating: (Model, Make and country of origin must be mentioned)	F
286	Generator 50 KVA	Genset Rating: (Model, Make and country of origin must be mentioned) Prime rating: 50KVA/40KW Output Voltage (Single phase/Three Phase): 220-240/400-440 Prequency: 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: 60 HP or better No of Cylinders: 4 Inline Compression ratio: 18:1 or better No of Cylinders: 4 Inline Compression ratio: 18:1 or better No of Cylinders: 4 Inline Cowernor Type: Mechanical Fuel Tank Capacity: 150L or better Lubricant Oil Sump Capacity: 8L 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 Displav: Voltage, Current, KW, Power factor, Frequency, KWh Engine Oil Pressure Coolant Temperature (Digital) Fuel level indication	F
		Engine RPM	<u> </u>
		·	

		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.	_
287	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 Communication 18.1 and 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 Stop5. Low Fuel Level	
		Display:	
		Triprit,	1

		T	1
		 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.	
288	Generator	Genset Rating: (Model, Make and country of origin must be mentioned)	F
	200KVA	• Prime rating: 200KVA/160KW	
		• 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 : 240 HP or better	
		No of Cylinders: 6 Inline or better	
		Compression ratio: 16.0:1 or better	
		• Displacement: 7.0L or better	
		Governor Type: Electronic	
		Fuel Tank Capacity: 280L or better	
		 Lubricant Oil Sump Capacity: 16L or better 	
		Ambient Temperature at Rated Load: 50°C	
		Radiator Capacity (L): 25 L or better	
		Alternator: (Model, Make and country of origin must be mentioned)	
		•	
		Type: 4 poles brushlessInsulation: Class H	
		• Voltage Regulation No Load to Full Load: ±1% or better.	
		• Winding Pitch: 2/3 Protections:	
		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	
		1. LOW LUCE OIL FIESSUIE	

·,		2. High/Low Coolant Temperature	
ļ		3. Engine over & under Speed	
 -		4. Emergency Stop	
		5. Low Fuel Level	
		Display:	
		• Voltage, Current, KW, Power factor, Frequency.	
ļ		• Engine Oil Pressure	
		Coolant Temperature (Digital)Fuel level indication	
ļ		• Engine RPM	
ļ		Total Running Hours	
ļ		Palate Earthing The following items must be included with discal conceptor.	
		The following items must be included with diesel generator.	
ļ		1. ATS panel (Local with imported components).	
		2. 10 meter Power cable will be provided with generator	
ļ		3. Providing, installation and testing of the unit and earthling network	
		for generator set	
ļ		4. Construction of foundation pad.	
 -		5. Weather and sound proof canopy (Local). 6. Separate price for Power cable (per meter), must be quoted	
 		6. Separate price for Power cable (per meter), must be quoted. The supplier will be responsible for complete installation/ functionalization	
 -			
200	COTTATA	of the generator.	
289	60KVA three	Digital micro control type servo motor drive 60KVA three phase	G
 -	phase	automatic voltage regulator.	
 	Automatic	• Input Line Voltage Range: 260VAC to 470 VAC, 4 Wire	
 	voltage	• Output Line Voltage Range: 4 wire system (220 to 230 VAC	
 	regulator	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	
ļ		during automatic operation.	
ļ		Air cooling type	
ļ		• 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.	
 -		The AVR should have to display the following	
 -		Input Phase to Phase	
 -		Input phase to phase Output phase to neutral	
 		Output phase to heatrai Output phase to phase	
 		Load Current in all the phases	
 		Frequency	
 		Overall system should have protection casing and wheels	
 -		(lockable) for movement	
 -		The supplier will be responsible for complete installation/	
		The supplier will be responsible for complete installation	1
!		functionalization of the unit	
200	20 KM 4	functionalization of the unit.	<u> </u>
290	30 KVA single phase	 functionalization of the unit. Digital micro control type servo motor drive 30KVA single phase automatic voltage regulator. 	G

	Automatic voltage regulator	 Input Line Voltage Range: 130VAC to 270VAC 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 andload current. The supplier will be responsible for complete installation/functionalization of the unit. 	
291	5 KVA UPS	 Topology: Double conversion. 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 or more 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°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 	G
292	5KVA Solar Off Grid Hybrid Inverter	 5000 Watts (5 KVA) 48 Volts DC, 220 Volt AC Single Phase Ouput, MPPT 80 Ampere Charge Controller with Hybrid Charging and electronic protections complete in all respect. 1 12 Volt, 150 AH Deep Cycle Maintenance Free GEL Batteries 4 300 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 	G

Surgical Instruments (Category C)

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

Selection must be subject to sample. Standards Sizes (S, M, L)

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

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

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

12	Self-Retracting Abdominal	
12	Sim forceps	
12	SIMMs duck bill specula single ended	
12	Single Hocks Blunt	
12	Singles vigilant dressing forceps with small sector	
12	Skin Retractor	
12	Skin small Retractor	
13	Small Needle Holder oral surgery	
13	Smith forceps hare curded left / right	
13	Sound Bladder	
13	Spittoons stainless steel	
13	Sponge holder forceps large size	
13	Sponge holder with curved older with	
	curved handle 8"	
13	Sponge holder with spring handle 16"	
13	Suction bowel stand	
13	Tendon hook	
13	Tenotomy knife Blunt ended	From good quality glass material
14	Tenotomy knife sharp pointed	Best quality, good material,
14	Toothed dissecting forceps oral surgery	
14	Towel clip	
14	Tracer Canola	
14	Tray with cover large size	
14	Tubule inflation apparatus	
14	Urethral V S	
14	Urinal stainless steel male and female	
14	Uterine curette blunt and sharp	
14	Vigilant dressing forceps 9.5"	
15	Wire cutting forceps	
15	Wallons Gesture Eterestomy clamp 13"	
15	Ward nephrolithotomy forceps	
15	Wash stand with 2 basin side by side	
15	Waxen Jones birth fracture frame	
15	Tendon Hammer	
15	wire Brush	
15	Tuning Fork	
15	Teflon Injection Burning Syringe	
15	Femoral Distractor	
16	Hand Chulk	
16	Pin Cutter	
16	Jex Thyroid Retractor hooking nut	
16	Prostate (Bladder) Self Retaining Retractor	
16	Thyroid Retractor	

16	Vaginal Speculum	
16	Amalgam Plunger filling	
16	Bone Rongers (Oral Surgery)	
16	Burnishing Filling	
16	Cartridge Syringe with Aspirating Facility	
17	Cellulose or Plastic Strip	
17	Cement Spatula	
17	Excavator Filling	
17	Glass Slab	
17	Instrument for Filling	
17	Mortar & Pastel	
17	Steel Matrix Bands Different Size	
17	Abdominal Retractor	Consisting Of:
1 /	Abdominal Retractor	1 X Retractor With 2 Pairs Exchangeable
		Valves
		1 X Gusset Retractor
		1 X Denis - Browne Retractor With 4
		Blades
17	Stand for three sterilizer drum with	
1 /	Drained	Make of Steel Pipe dia
17	Basin S.S.	
		Best Quality, Good material
18	Basin Stand	Best Quality, Good material
18	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
18	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
18	Chest Intubations Set	Manufacturer's mark must be
18	Chest Intubations Set	Indicated on all instruments.
18	Point's Aspirator	Manufacturer's mark must be
10	1 ome o respirator	indicated on all instruments.

18	Tongue Depressor Steel	Tongue Depressor Steel	
18	Proctoscope for adult & child	Manufacturer's mark must be	
	-	indicated on all instruments.	
18	Proctoscope	Premium Grade Stainless Steel	
18	Screw driver Ser 3.5mm	Best quality	
18	Screw driver Ser 4.5mm	Best quality	
18		• INSTRUMENT SET DENTAL SURGERY 1. Basic instrument set for use in the dental surgery room. 2. Description 3. Probe single ended perio CPTN-C 4. Spatula double ended No 8 5. Spatula double ended No 3 6. Spatula double ended 8 x Alginate/Plaster metal Curved 7. Instrument for plastics 8. Excavator double ended 127/128 9. Excavator double ended 131/132 tissue tweezers type Collage Fig 8 plain 10. Carver Ward 2 11. Scalar balanced gripH4 12. Scalar balanced gripH5 13. Scalar balanced gripH7 14. Scalar balanced grip Towner U15 16. Scalar balanced grip Jaquette 2 Scalar 17. balanced grip Jaquette 3 18. Scaler Detagonal H4 20. Scaler Octagonal H5 21. Scaler Octagonal H6 22. Scaler Octagonal H8 23. Scaler Octagonal H8 23. Scaler Octagonal Jaquette 2 26. Scaler Octagonal Jaquette 3 27. Scaler Octagonal Jaquette 3 28. Scaler Octagonal Jaquette 2 26. Scaler Octagonal Jaquette 3 27. Scaler Octagonal Jaquette 3 28. Scaler Octagonal H9 24. Scaler Octagonal Jaquette 3 27. Scaler Octagonal Jaquette 3 28. Scaler Octagonal Jaquette 3 29. Scaler Octagonal Jaquette 3 20. Scaler Octagonal Jaquette 3 21. Scaler Octagonal Jaquette 3 22. Scaler Octagonal Jaquette 3 23. Scaler Octagonal Jaquette 4 24. Scaler Octagonal Jaquette 4 25. Scaler Octagonal Jaquette 5 26. Scaler Octagonal Jaquette 3 27. ScalerGracey Curette double ended 3/4 29. ScalerGracey Curette double ended 5/6 30. ScalerGracey Curette double ended 5/6 30. ScalerGracey Curette double ended 13/14 32. Scaler MacFarlane Balanced Tip MFO/1	

- 33. Scaler MacFarlane Balanced Tip MF2/3
- 34. Scaler MacFarlane Balanced Tip MF4/5
- 35. BurnisherDE AM (W) 1
- 36. Burnisher DE AM (W) 1L
- 37. Amalgam Plugger Blacks 0/1
- 38. Amalgam Plugger Blacks 1/2
- 39. Elevator Apical Straight
- 40. Elevator Apical Left
- 41. Elevator Apical Right
- 42. Elevator Coupland 1
- 43. Elevator Coupland 2
- 44. Elevator Coupland 3
- 45. Elevator Warwick James Straight
- 46. Elevator Warwick James Left
- 47. Elevator Warwick James Right
- 48. Elevator Cryer 30 left
- 49. Elevator Cryer 31 right
- 50. Forceps Artery Spencer Wells 5" straight
- 51. Forceps Artery Spencer Wells 5" curved
- 52. Forceps Mosquito 5" straight
- 53. Forceps Extraction Upper Incisor
- 54. Forceps Extraction Upper Molars Right
- 55. Forceps Extraction Upper Molars Left
- 56. Forceps Extraction Lower Molars
- 57. Forceps Extraction Lower Roots
- 58. Forceps Extraction Small Lower Roots
- 59. Forceps Extraction Lower Premolars
- 60. Forceps Extraction Upper Roots
- 61. Forceps Extraction Children Lower Teeth
- 62. Forceps Extraction Children Lower Molars/General Forceps
- 63. Extraction Children Upper Incisors/Canines Forceps
- 64. Extraction Children Upper Molars
- 65. Forceps Extraction Children Upper General
- 66. Amalgam Plugger Blacks 0/1
- 67. Luxation Kit
- 68. Ceram color Probe No 6
- 69. Margin Trimmer 15-11
- 70. Placer Calcium Hydroxide 15-90
- 71. Gingival Cord Packer Yardley 15-66-6
- 72. Root Canal Spreader Heat Carrier

Anterior Root
73. Canal Spreader Heat Carrier
Posterior
74. Periosteal Elevator Prichard
75. Periosteal Elevator Molt
76. Periosteal Elevator Fine
77. Periosteal Elevator Howard
78. Forceps Tissue Sempkin-Taylor
Straight 12.5cm
79. Retractor tissue Austin
80. Retractor Tongue and Cheek
University of Minnesota
81. Needle Holder Mayo Hegar 16cm
82. Forceps Halsted Mosquito Curved
12cm
83. Forceps Halsted Mosquito Straight
12cm
84. Tray Dental Instrument Imperforated
28 x 18 cm
85. Mirror Handles Round Stainless
Steel
86. Mirror Heads No 4 plane (12)
87. Explorer single Ended EXS 6
88. Explorer Single Ended EXS 6A
89. Matrix System Intro
90. Scissors Straight 5" Sharp/Sharp
91. Scissors Straight Crown Bee Bee No 12
92. Scissors Curved Crown Bee Bee
No 9
93. Syringe Dental Cartridge S/S 2.2
ml
94. Amalgam Carrier 5X Hampel
95. Complete Mortar & Pestle Glass 2 "
Dia.
96. Dappen Dish lass Clear
Glass slab
97. Spatula mixing filling material
98. Mixing Pad reusable

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. Manufacturers mark must be indicated on all instruments.

Selection will be on samples

S# Name of the item		Specification	
1.	General Instrument Set	1) InstrumentTray10x12	01

2) Towel clips				
4 Artery forceps 6" curved 06			I =	
Syntery forcepss" straight 02			1 '	
6) Sponge Holding forceps			1 -	
7) Metzebaumscissors7.5"curved 01 8) Metzebaum straightscissors7.5" 01 9) Czemeyretractors 02 10) LangenbeckRetractors 02 11) Needleholder?" 01 12) Tootheddissectingforceps:7" 01 13) Non-toothed dissectingforceps?" 01 14) Allis' forceps8" 04 15) kidney trayllitter 01 16) kidney trayllitter 01 16) kidney trayllitter 01 16) kidney trayllitter 01 18) kidney trayllitter 01 19) Tootheddissectingforceps?" 01 19) Non-toothed dissectingforceps?" 01 11) Needleholder?" 01 12) Tootheddissectingforceps?" 04 15) kidney trayllitter 01 16) kidney trayllitter 01 16) kidney trayllitter 01 17) Kotary First incision Knife 01 18) Kotary First incision Knife 01 19) Kotary First incision Knife 01 10) Kotary First incision Knife 01 11) Kotary First incision Knife 01 12) Kotary First incision Knife 01 13) Kidney Groundies County O1 14) Micro CawthomeCrocodileScissors Straight 01 15) Kurary Crocodile Forceps Straight 01 16) Kotary First Straight 01 17) Micro Bartuments Different Angles 03 18) Granulation Forceps Straight 01 19) Micro Hartmenn Crocodile Forceps Straight 01 19) Micro Hartmenn Crocodile Forceps Straight 01 110 Micro Hartmenn Crocodile Forceps Straight 01 111 Micro Hartmenn Crocodile Forceps Straight 01 112 Mollison Mastoid Retractor Adult 02 113 Mollison Mastoid Retractor Child 01 124 Mollison Mastoid Retractor Child 01 125 Micro Granulation Forceps Straight 01 126 Micro Granulation Forceps Right 01 127 Mollison Mastoid Retractor Child 01 128 Mollison Metatoid Retractor Left 01 129 Plaster Jenson Retractor Left 01 120 Micro Granulation Forceps Ceft 01 121 Micro Granulation Forceps Ceft 01 122 Plaster Jenson Retractor Left 01 123 Plaster Jenson Retractor Left 01 124 TumarkimMetal Ear Speculum Slotted04 125 CawthomePeriosteal Elevator 01 126 King Vein Graft Pressing Forceps 01 17 Mollison Ottaliner Vein Graft Pressing Forceps 01 17 Mollison Ottaliner Vein Ollies Counter Vein Ollies Olli			1 '	
8) Metzebaum straightscissors 7.5" 01 9) Czerneyretractors 02 10) LangenbeckRetractors 02 11) Needleholder?" 01 12) Tootheddissectingforceps: " 01 13) Non-toothed dissectingforceps: " 01 14) Allis' forceps8" 04 15) kidney trayllitter 01 16) kidney trayllitter 01 16) kidney trayllitter 01 16) kidney trayfooml 01 17 Along with Container 01 18 Cotay First incision Knife 01 20 Rotary First incision Knife 01 31 Sickle Knife 01 42 Myringotomes 01 53 Aural Crocodile forceps Tilley's 01 64 CawthomeCrocodileScissors Straight 01 75 CawthomeCrocodileScissors Left 01 76 CawthomeCrocodileScissors Left 01 77 CawthomeCrocodileScissors Left 01 78 Frazier Suction Nozzle 02 79 Frazier Suction Nozzle 02 11 CawthomeHooks. Different Angles 03 12 Granulation Forceps Straight 01 13 Micro Ear Instruments Different 05 14 (Mobilizer, Measuring Rode, Curette, Elevator Rt, Lt Micro Hartmann Crocodile Forceps Left 01 15 Micro Hartmann Crocodile Forceps Left 01 16 Micro Granulation Forceps Right 01 17 Mollison Mastoid Retractor Adult 02 18 Mollison Mastoid Retractor Adult 02 18 Mollison Mastoid Retractor Child 01 19 Micro Granulation Forceps Right 01 20 Micro Granulation Forceps Right 01 21 Micro Granulation Forceps Right 01 22 Plaster Jenson Retractor Right 01 23 Plaster Jenson Retractor Right 01 24 TomarkimMetal Ear Speculum Slotted04 25 CawthomePeriosteal Elevator 01 26 King Vein Graft Pressing Forceps 01 27 InstrumentsTrayl 2" 01 28 Needles Box 01 29 Mastoid Chisel 01 30 Along with Container				
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25. CawthornePeriostealElevator 01 26. King Vein Graft Pressing Forceps 01 27. InstrumentsTray12"x14" 01 28. Needles Box 01 29. Mastoid Chisel 01 30. Along with Container			23. Plaster Jenson Retractor Left 01	
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2. Nasal Speculum01 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. MetzenboumScissors 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. KilnerAlae retractor 02 13. Heath Mallet. 01 14. Set f MclandoeChisels5,7,9,11,15mm01set Tillys Nasal Forceps 01 15. McIndoeNon ToothedForceps6" 01 16. Mastarde'sToothedForceps6" 01 17. Adson Toothed Forceps Fine 01 18. Adson Toothed Forceps Medium 01 19. American pattern suction cannula 01 20. Valkmann curette 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. MetzenboumScissors 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. KilnerAlae retractor 02 13. Heath Mallet. 01 14. Set f MclandoeChisels5,7,9,11,15mm01set Tillys Nasal Forceps 01 15. McIndoeNon ToothedForceps6" 01 16. Mastarde'sToothedForceps6" 01 17. Adson Toothed Forceps Fine 01 18. Adson Toothed Forceps Medium 01 19. American pattern suction cannula 01 20. Valkmann curette 01
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13. Heath Mallet. 01 14. Set f MclandoeChisels5,7,9,11,15mm01set Tillys Nasal Forceps 01 15. MclndoeNon ToothedForceps6" 01 16. Mastarde'sToothedForceps6" 01 17. Adson Toothed Forceps Fine 01 18. Adson Toothed Forceps Medium 19. American pattern suction cannula 20. Valkmann curette 01
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18. Adson Toothed Forceps Medium 01 19. American pattern suction cannula 01 20. Valkmann curette 01
18. Adson Toothed Forceps Medium 01 19. American pattern suction cannula 01 20. Valkmann curette 01
20. Valkmann curette 01
A4 77 1 CT 00
21. Towel Clips 08
22. Marking pen 01
23. Inkpot 01
Along with Container
4. SMR Set 1. Freer Elevator 01
2. Killian Nasal Gouge V-Shape 01
3. Hammer SS 01
4. Frazier Suction Nozzle No 9,10,12 03
5. Tilley's NasalDressingForceps1. 01
6. Luc Turbinate Forceps Small 01
7. Luc Turbinate Forceps Medium 01
8. Killian NasalSpeculum2" 01
9. Killian NasalSpeculum2.5" 01
10. Killian NasalSpeculum3" 01 11. Hayman's TurbinectomyScissors 01
12. Tilley's Trocar &CannulaNo7 02 13. Tilley's Trocar &CannulaNo8 02
14. Walsham Septum Forceps 01
15. Telley's Hankle Forceps 01
16. Instruments Tray 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. 1
4. Gwynne Evans Tonsil Dissector.
5. Mollison Anterior Pillar Retractor.
6. Waugh Tonsil Dissecting Forceps 1X2 Tooth 8".1
6. Waugh Tonsil Dissecting Forceps 1X2 Tooth 8".1 7. Waugh Tonsil Dissecting ForcepsPlain8".

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		8. Negus Tonsil Artery Forceps Short Curve. 1
		9. Negus Tonsil Artery Forceps Long Curve. 1
		10. Tonsil Scissors Curved 7.5".
		11. Tonsil Scissors Fine Point Curved 7". 1
		12. Eve's Tonsil Snare. 1
		13. Tonsil Snare Wire Packet. (Packet of 15Pes) 01 Pkt.
		14. St. Clair Thomson Adenoid Curette With guard Small.1
		15. St. Clair Thomson Adenoid Curette With guard Large. 1
		16. Negus Pusher.
		17. Denis Brown Tonsil Holding Forceps.
		18. B.P. HandleNo.7.
		19. Yankaur Suction Nozzle.
		20. Instruments Tray 1
6.	Cataract Surgery Set	1. Wire Speculum. 1
		2. St. Clark's Self-Retraining Speculums. 1
		3. Arragua's Superior Rectus Needle Holder. 1
		Blade Breaker. 1
		4. Micro Corneal Forceps with Suture Tying. 1
		5. Universal Corneal Scissors. 1
		6. Iris Scissors Str/Cvd. 2
		7. Micro Corneal Needle Holder. 1
		8. Iris Repository Double Ended. 1
		9. Wire Vectus. 1
		10. Cautery Point.
		11. Spring Scissors Straight.
		12. Micro Mosquito Artery Forceps Str/Cvd. 4
		13. Fixation Forceps.
		14. Micro Suture Tying Forceps.
		15. SimecoTwo-way Cannula. 1
		•
		16. Mcpharson Forceps 1
		17. InstrumentsTray8x10" 1
		Along with Container
7.	DCR Instrument Set	1. D.C.R. BonePunch (Karrison).
		2. D.C.R. Periosteal Elevator Double Ended. 1
		3. Mosquito Artery Forceps Straight. 2
		4. Mosquito Artery Forceps Curved. 2
		5. Bowman Lacrimal Probe No.0-00. 1
		6. Bowman Lacrimal Probe No.1-2.
		7. Bowman Lacrimal ProbeNo.3-4.
		8. Wilder Lacrimal Dilator.
		9. West Lacrimal Sac Chisel.
		10. Towel Clips. 2
		11. Straight Eye Scissors (Iris). 1
		12. Stevens TenotomyScissors. 1
		13. Stevenson Lacrimal Sac Retractor.
		14. Knapp Lacrimal Sac Retractor.
		15. Small Mallet.
		16. Barraquer Needle Holder Curved. 1
		17. Straight Dressing Forceps (Iris)Plain. 1
		18. NasalSpeculum. 1
	<u>l</u>	10. 13asas podurum. 1

8.	Electric Foreign Body Set	19. NasalDressingForceps. 1 20. SutureBarker Along with Container 1.Beccock 2.knife handle 3.Small artery forceps 4.plane dissecting forceps 5.tooth dissecting forceps 6.needle holder 7.scissor	02 01 03 01 01 01 02
		8.Small Allis's 9.Retractors Along with Container	02 02
9.	Dissection box for post- mortem with all accessories/Mortuary instrument set	 Enterotome SkullChisel RibCutter Scalpel ScalpelBlades Tooth Forceps BoneSaw Amputationknife PostmortemHammer PostmortemsChisel Postmortem SpineWrench Postmortem HookKnife Blowpipe Scissor 	2 Pcs 2 Pcs 2 Pcs 5 Pcs 100 Pcs 5 pcs 2 Pcs 2 Pcs 2 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 1 Pcs 2 Pcs
10.	Glaucoma Set	 Blade Braker B.P Handle No.3 Wire Speculum Mosquito Artery Forceps Str/Cvd Corneal Scissors Right. Corneal Scissors Left. Corneal Scissors Curved of flat. Barahuer Needle Holder Curved A/I Cannula. Along with Container 	1 1 1 2 1 1 1 1
11.	Squint Surgical Set	 Micro Needle holder Needle Holder Large Conjunctival Scissors Corneal Toothed Large Artery Forceps Bulldog Clamps Squint Hook V. Calipers. Bowel SS 4" Kidney Tray 	1 1 1 6 2 2 1 1

		11. Along with Container	
12.	AO Basic Set	1. Twist Drills (unmounted2.5mmdiam.13cm	2
		2. Twist Drills (unmounted3.5mmdiam13cm	2
		HowmannBone lever small 16 length 6mm wide	
		3. Howmann Bone levercobratype.16cm	1
		4. Varburg Bone holdingforceps20cm	2
		5. Reduction clamp pointed13cm	2
		6. Reduction clamp screw jaw withteeth15cm	2
		7. Simmons plier17cm	1
		8. Tap 2.7mmdiam11cm	1
		9. Handle for screw driver +countersink	1
		10. Counter sink 10mm diam12.5cm	1
		11. Screw driver 2.5mm11.5cm	1
		12. Jeffsonperosteal elevator 5mm20mm	1
		13. Plate bender14cmRetorcedor	2
		14. Screw sleeve 2.5mm+2.0mm	1
		15. Screw sleeve 2.7mm+2.0mm	1
		16. Tap sleeve 2.5mm+3.5mm	1
		17. Venabie Screwsleeve2.0mm	1
		18. Drill Guide	2
		19. BoneScaler	1
		20. Depthgage Large	1
		21. Screwclamps8cm	1
		22. Screw Driver with Guide2.5mm19cm	1
		Along with Container	_
13.	AO Small Fragment Set	1. Bone Holding Forceps A/o small=	2
		2. Bone Spikier small=	2
		3. Screw Driver small2.5mm=	1
		4. Periosteal Elevator small=	1
		5. Chisel small=	1
		6. Bone Cutter small=	1
		7. Wire Cutter Small=	1
		8. Tap small3.5= 9. Tap Sleeve3.5=	I 1
		9. Tap Sieeves.5= 10. Depth Gage Small=	1
		11. Screw Sleeve=	1
		12. Instruments Box=	1
		Along with Container	
14.	Dressing Set for Ward	Dressing scissors(Plastic Handle) 1	
		2. Stitch Scissors fine 2	
		3. No Toothed Forceps.	1
		4. Toothed Forceps.	1
		5. Artery forceps.	<u>l</u> 1
		6. Suture forceps. 7. Small Kidney Tray	1
		7. Small Kidney Tray. 1 8. Bowl	1
		9. Kocher Forceps	1
L	<u> </u>		=

		Along with Container	
15.	IMN Set	Awl	1Each
		Cortical Awl	1Each
		Tissue Protecor	1Each
		ImpactorLarge, Medium and Small	1Each
		GuidePin3.5mm	1Each
		Extractor	1Each
		Bio-Locking Femur	3
		10/12/14x360/380/400/420/440/460	
		Femur proximal locking screw	3
		60/65/70/80/90/100	
		Tibia/femoral blocking screw	3
		Bio-locking Tibia	3
		Bio-locking humerus	3
		Proximal locking screw	
		End Stem	
		Reamer with T-Handle 6mm to 17mm	n 1 each
		Along with Container	
16.	Dissecting Instrument Set	Instruments Box	
		Artery Forceps Medium	4
		BP Handle	2
		Dissecting Forceps plain & tooth	2
		Dressing Disecting Scissors (S & M)	2
		Dressing suture Cutting Scissors	1
		Czerny Retractor	2
		Legenback Retractor	2
		Needle Holder	2
		Along with Container	
17.	Colostomy set	Item	Qty
		Instrument container box10"x12"	1
		Towel clips on pin	6
		B.P handleNo4	2
		Artery forceps 6"curved	8
		Artery forceps 6"straight	4
		Sponge holding forceps	2
		Metzebaumscissors9"curved	1
		Sim's straightscissors8"	1
		Czerneyretractors	2
		Langenbaeck retractors	2
		Needleholder7"	1
		Toothed dissectingforceps7"	1
		Non toothed dissectingforceps7"	1
		Deaverretractors 2"wideblade	2
		Deaverretractors 3"wideblade	1
<u> </u>		2 34 Off Charles 5 Wildonate	-

		CBR bouglesset`	1
		Lathey'sforceps	1
		Werthemneedleholder9"	1
		Allis forceps7" (S,M & L)	6
		Yankauer suction canola	1
			1
		Kidney tray1litre	1
		Deaverretractors 3"wideblade	1
		Kidney tray500ml	1
		Toothed dissectingforceps9"	1
		Non toothed dissectingforceps9"	1
		Babcock Forcep (S,M & L)	6
18.	C-Section set	instrument container box 10"x12"	1
		Towel clips on pin	6
		Sponge holding forceps	2
		non toothed dissecting forceps 7"	2
		Toothed dissecting forceps 7"	1
		BP handle No 4 Allis's forceps 9"	2
		Kidney tray 1 litre	1
		Artery forceps 6" curved on pin	8
		Artery forceps 6"	4
		straight Metzebaum scissors 9"	1
		curved Sim's straight scissors 8"	1
		Doyne retractors	1
		Gallipots 150 ml	1
		Wrighley's outlet forceps pair	2
		Needle holder 7"	2
		Needle holder 9"	1
		Baby Cord clamps	2
		Green armytage forceps	2
		Long Artery forceps 9" straight	1
		Long Artery forceps 9" curved	2
19.	D & C Set	Item	Qty
		Uterine Sound	1
		Curette Double Ended	3
		Volselum10"	1
		Artery Clamp 10"	8
		Ovum Forceps.	2
		Dialectomy set	1
		Sims speculum forceps set of three	1
		Curved for Gynae 1 to 5	1
		Sate catheter (Metallic female catheter	1
		Instrument containerbox10"x12"	1
		towel clipsonpin	4
		sponge holdingforceps9.5"	1
		sponge noramgroreeps.is	-

		non toothed dissecting forceps 8"	2
		Allis's forceps 9"	2
		1	1
		Dilator set (Hegers)	1
		Galli Pot150ml	2
		Along with Container	
20.	Dressing Set with Trolley	1. instrument container box10"x12"	1
		2. Towel clips on pin	6
		3. Sponge holding forceps	1
		4. non toothed dissecting forceps?"	1
		5. Allis's forceps9"	1
		6. Dilator set	1
		7. Sims speculum set	1
		8. Duck speculum set	1
		9. Uterine Sound	1
		10. Volselum set	1
		11. Uterine curette set of three	
		12. Kidney tray 1 litre	1
		13. Flushing curette set of three	1
		14. Gallipots 150 ml	1
		15. Along with Container	-
21.	E & C Set	1. instrument container box10"x12"	1
		2. Towel clips on pin	4
		3. Sponge holding forceps	1
		4. non toothed dissecting forceps?"	6
		5. Allis's forceps9"	2
		6. Dilator set	<u> </u>
		7. Sims speculum set	4
		8. Duck speculum set	Δ
		9. Uterine Sound	4
		10. Volselum set	4
		11. Uterine curette set of three	2
		12. Kidney tray 1 liter	1
		13. Kidney tray 500ml	1
		14. Flushing curette set of three	1
			1
		15. Gallipots 150 ml	1
22	T	Along with Container	0,
22.	Laparatomy set	Item	Qty
		1. Instrument container box10"x12"	1
		2. Towel clips on pin	6
		3. B.P handleNo4	2
		4. Artery forceps6"curved 8	
		5. Artery forceps6"straight	4
		6. Sponge holding forceps 2	
		7. Metzebaumscissors9"curved 1	
		8. Sim's straightscissors8"	1
		9. Czerneyretractors	2
		10. Langenbaeckretractors	2
		11. Needleholder7"	1
		12. Toothed dissectingforceps7" 1	
	•	· · · · · · · · · · · · · · · · · · ·	

		13. Non toothed dissectingforceps7" 1
		14. Deaverretractors 2"wideblade 2
		15. Deaverretractors 3"wideblade 1
		16. Kirscchnerself-retaining retractor with 4 blades 1
		17. Non crushing intestinal clamps curved 2
		18. Non crushing clamps straight 2
		19. Artery clamps9"curved 1
		20. Lathey's forceps 1
		21. DebakyForcep 1
		22. Toothed dissectingforceps9" 1
		23. Non toothed dissectingforceps9" 1
		24. Allisforceps7" 2
		25. Yankauer suction cannula 1
		26. Kidney tray1litre 1
		27. Kidney tray500ml
		28. Needleholder9 1
		29. DaithermyMonopolar 1
		30. Self-Retaining Retractor 1
23.	Normal Delivery set	Stainless steel imported/Local made
		2. Bowl lotion 150 mm
		3. Kidney Tray 10" 3
		4. Mucus Extractor Reusable Rubber 2
		5. Catheter used with mucus Extractor 2
		6. Artery Forceps Kocher 8" straight. 4
		7. Dissecting Forceps 6" toothed. 4
		8. Needle holder mayo 6.5
		9. Outlet Forceps large size. 2
		10. Episiotomy Scissors 6" 2
		11. Scissors B/B
		12. Card Clamp.
		13. Sims Speculum 1
		Along with Container
24.	Obs/ General Gynae set	1. Instrument container box10"x12"
		2. Towel clips on pin
		3. Sponge holding forceps
		4. non toothed dissecting forceps?"
		5. Toothed dissecting forceps?"
		6. BP handle No4
		7. Allis's forceps8"
		8. Kidney tray 1litre
		9. Artery forceps 6" curved on pin
		10. Artery forceps 6"straight
		11.Metzebaum scissors 9" curved
		12.Sim's straight scissors 8"
		13. Kidney tray 500ml
		14. Deaverretractors set of three
		15. Gallipots 150ml
		16. Bowl 8litre
		17. Needle holder7"

		18. Needle holder9"	
		19. Self-retaining retractor (Balfon3blade	es)
		20. Volsellumforceps	/
		21. Long Artery forceps 9"straight	
		22. Long Artery forceps 9" curved	
		23. Viginal Retractor	
25.	Thoracotomy set	1. Instrument container box10"x12"	1
	, and the second	2. Towel clips on pin	6
		3. B.P handleNo4	2
		4. Artery forceps 6"curved 8	
		5. Artery forceps 6"straight	4
		6. Sponge holding forceps 2	
		7. Metzebaumscissors9"curved 1	
		8. Sim's straightscissors8"	1
		9. Czerneyretractors	2
		10. Langenbaeck retractors 2	
		11. Needleholder7"	1
		12. Toothed dissectingforceps7" 1	
		13. Non toothed dissectingforceps7"	I
		14. Allis forceps7" 1	
		15. Rib spreader 1	1
		16. Doyenribraspactories set17. Yankauer suction cannula	1 1
		18. Lung retractors	2
		19. Kidney tray1litre	1
		20. Kidney tray500ml	1
		21. Needleholder9"	1
		Along with Container	
26.	Thyriodectomy Set	Item	Qty
		Joll's Retractor	1
		Towel clip on pin	6
		BP handleNo4	2
		Artery forceps 6"curved	8
		Artery forceps 6" straight	4
		Sponge holding forceps	2
			1
		Meta-Baum scissors9"curved	1
		Sim's s straightscissor8"	1
		Czemcy retractor	2
		Langeback retractor	2
		NeedleHolder7"	1
		Toothed dissectingforceps7"	1
		Non toothed dissectingforceps7"	1
		Thyroidre	1
		Alliesforceps7"	1
		Kidney tray1liter	1
		Kidney tray500ml	1
		Along with Container	1
	1	ATORE WITH CONTAINER	

Urethral Dilator set	Complete Set of Autoclavable Dilators	
Varicose Vein set		1
		6
		2
	Artery forceps 6" curved	8
	Artery forceps 6" straight	4
	Sponge holding forceps	2
	Czerney retractors	2
	Langenbaeck retractors	2
	Needle holder 7"	1
	Toothed dissecting forceps 7"	1
	Non toothed dissecting forceps 7"	1
	Artery clamps 9" curved	1
	Lathey's forceps	1
	Toothed dissecting forceps 9"	1
	Non toothed dissecting forceps 9"	1
	Allis forceps 7"	1
	Along with Container	
Haemorrhoidectomy set	Instrument container box 10"x 12"	1
•	Towel clips on pin	6
	Artery forceps 6" curved	8
	_	4
		2
		1
		1
	_	1
		1
	-	1
		1
	Varicose Vein set	Sizes; 2-32 Along with container Varicose Vein set Instrument container box 10"x 12" Towel clips on pin B.P handle No 4 Artery forceps 6" curved Artery forceps 6" straight Sponge holding forceps Czerney retractors Langenbaeck retractors Needle holder 7" Toothed dissecting forceps 7" Non toothed dissecting forceps 7" Artery clamps 9" curved Lathey's forceps Toothed dissecting forceps 9" Non toothed dissecting forceps 9" Non toothed dissecting forceps 9" Allis forceps 7" Along with Container

30.	Prostatectomy Set	 Instrument container box 10"x12" 1 Towel clips on pin 6 B.P handle No4 2 Artery forceps 6"curved 8 Artery forceps 6" straight 4 Sponge holding forceps 2 Metzebaumscissors 9"curved 1 Sim's straight scissors8" 1 Czerneyretractors 2 Needle holder7" 1 Toothed dissecting forceps7" 1 Non toothed dissecting forceps7" 1 Suprapubicretractor 1 Allis forceps7" 1 Yankauer suction cannula 1
		Kidney tray 1litre 1
		 Kidney tray 500ml Prostectomy Retractor 1
31.	Cholecystectomy Set	Instrument container box 10"x12"
		• Towel clips on pin 6
		B.P handle No4 2
		Artery forceps6"curved 8
		• Artery forceps 6" straight 4
		 Sponge holding forceps Metzebaumscissors 9"curved
		Sim's straight scissors8" 1
		• Czerneyretractors 2
		Langenbaeckretractors 2
		Needle holder7" 1
		• Toothed dissecting forceps7" 1
		• Non toothed dissecting forceps7" 1
		Deaverretractors 2" wide blade 2
		Deaverretractors 3" wide blade 2
		Allis forceps7" Z Vankayar systim cannula
		Yankauer suction cannulaKidney tray 1litre
		- Kidney day Thire
32.	Vaginal Hysterectomy	1. Instrument container box10"x12" 1
	set	2. Towel clipsonpin 6
		3. B.P handleNo4 2
		4. Artery forceps 6"curved 8
		5. Artery forceps 6"straight 4
		6. Sponge holding forceps 27. Metzebaumscissors9"curved 1
		8. Sim's straightscissors8" 1
		9. Czerneyretractors 2
		10. Langenbaeck retractors 2
		11. Needleholder7" 1
		12. Needleholder8" 1
		13. Toothed dissectingforceps7" 1

		14. Non toothed dissectingforceps7"15. Alliesforceps7"6
		16. Sim's speculum set 1
		17. Gallipots150ml 2
		18. Uterine sound
		19. Kidney tray1litre 1
		20. Kidney tray 500ml 1
		21. Volsellumforceps 2
		22. Viginal Retractor
		Along with Container
33.	Vascular set	1. Instrument container box10"x12 1
		2. Towel clips on pin 6
		3. B.P handleNo4 2
		4. Artery forceps 6"curved 8
		5. Artery forceps 6"straight 4
		6. Sponge holding forceps 2
		7. Metzebaumscissors9"curved 1
		8. Sim's straightscissors8" 1
		9. Czerneyretractors 2
		10. Langenbaeck retractors 2
		11. Needleholder7" 1
		12. Toothed dissectingforceps7" 1
		13. Non toothed dissectingforceps7" 1
		14. Allis forceps7" 4
		15. Vascular Clamp 2
		Along with Container
34.	Laminectomy Sets	1. Carrison'sRangour(up-cut) 02
	,	- 1mm, 2mm, 3mm,4mm
		2. Pituitary Rangour 04
		- 1mm, 2mm, 3mm(Strait)
		- 2mm Forward - 01
		- 2 mm Backward – 01
		3. Watson chain Dissector – 01
		4. Adson's retractor – root retractor 01
		5. Mastoid retractor-
		6. Deep Mastoid retractor (Cervical) 02
		7. Hemi-retractor – (Right 01) (Left 01)
		8. Chisel – 01
		9. Suction nozzles – small, medium, large
		10. BP knife handle – long 01
		11. Cutting se: fine / assistant Scissors 02
		- Needle holders
		- Dissecting forceps- Plain and tooth 02
		- Artery forceps 04
		- Towel clamps sponge holding 01
		- Kidney trays 02
		- Kidney trays 02 - Instruments tray (Large)
35.	VP Shunt	Sulemans subcutaneous shunt passer
JJ.		1. Buiemand subcutaneous shull passel
	VI Situit	- Adult Size 4

		DoodsCigo	4
		- PaedsSize	4
		2. Hudson Brace –perforator	1
		Burn bole(Various sizes)	
		3. Brain Cannula -	1
		4. Adson's Dissector	2
		5. Mastoid Refractor – Small, Medium,	Large sizes leach
		6. Peritoneal trocar	1
		7. Cutting set –scissor-fine/assistant	1
		- Needle holder- fine large	1
		- Artery forceps – all size	4
		- Dissecting forceps- plain,tooth	1 each
		- Sponge holder	1
		- Kidney tray	
		- Instrument tray- large size	
		- Bowl(sponge)	
26	77:1 G. D. 1	- Suction- nozzles- medium, small size	_
36.	Kidney Stone Removal	1. Dijorden Forceps	1
	Set	2. BoleocksRt angled long dissecting	1
		3. Long scissors forceps	1
		4. Long needle holders	2
		5. Suction nozzles with guard	1
27	A 1 (G G (6. Morrison's refractor	1
37.	Appendectomy Surgery Set	1. Mayoscissor 14cm curved TC	1
		2. Scalpel Handle #4	2
		3. Allis tissue forceps 15 cm	4
		4. Bab cocks tissue forceps 16 cm	2
		5. Plain Forcep	1
		6. Toothed Forcep	1
		7. Artery Forcep Curved	4
		8. Artery Forcep Straight	2
		9. Czerny Retractor	2
		10. Needle Holder	2
		11. Suture Cutting Scissor	1
20	Danie Cat. I ama a Consti	12. Kidney Tray 500ml	1
38.	Bone Set Large, Small	 Complete set of Bone Cutter Bone Nibblers 	$\frac{1}{2}$
	and Medium	3. Chisel - osteotome,	2 2
		4. Hammer – Periosteum	1
		5. Elevator,	1
		6. Bone levers etc.	$\frac{1}{4}$
		7. Complete sets curettes	$\stackrel{ au}{\it \Delta}$
		8. Bone holding forceps.	4
39.	Cutting Instrument Set	Bene holding forceps. 1. BP needle	
		2. A. Forceps	
		3. Allis Forceps	
		4. Sponge holding	
		5. Dissecting plain/tooth	
		6. Towel Clips	
		7. Needle Holders	
		8. Kidney Tray	
	1	i i i i i i i i i i i i i i i i i i i	

		0 Powels
		9. Bowels
		10. Instruments Tray
		11. Dissecting Box
		12. Suture Cutting Scissors
		13. C-ZarnyRefractors Scissors
40	Maning and a star Cat	14. Langback
40.	Myringoplasty Set	Plaster first incision knife Plaster first incision knife
		2. Rotary first incision knife
		3. Sickle knife
		4. Myringotomes
		5. Aural crocodile forceps Tilley's
		6. Cawthornecrocodile scissors straight
		7. Cawthornecrocodile scissors right
		8. Cawthornecrocodile scissors left
		9. Frazier suction nozzlesnos.6.7.8.
		10. Micro suction nozzle
		11. Cawthorne hook. Different angles
		12. Granulation forceps straight
		13. Micro ear instruments different (Mobilizer, Measuring rode,
		Curette ,elevator Rt,Lt
		14. Micro Hartmann crocodile forceps straight
		15. Micro Hartmann crocodile forceps right16. Micro Hartmann crocodile forceps left
		17. Mollison mastoid retractor adult
		18. Mollison mastoid retractor child
		19. Micro granulation forceps straight
		20. Micro granulation forceps straight
		21. Micro granulation forceps left
		22. Plaster Jenson retractor right
		23. Plaster Jenson retractor left
		24. Crocodile forceps fine tips3"
		25. Tumarkinmetal ear speculum slotted
		26. Ear speculums
		27. Caw thorneperiosteal elevator
		28. King vein graft pressing forceps
		29. Instruments tray 12"X 14"
		30. Needles box
		31. Mastoid chisel
41	Automatic pipette	Standard sizes branded
	(Full Set)	
42	· ·	Universal socket wrench 01
42	Inter locking Nail set (Full	
	instruments)	• Hex driver for 4.5 mm & 5mm screw 01
		• Hex driver for 6.4mm screw 01
		• Tracer for 5mm screw 01
		• Guide wire 2.0mm x 900mm Long 01
		• Guide wire 3.0 mm x 900mm Long 01
		• Guide wire 2.0 mm x 900mm Long with Tip 01
		• Open End Wrench 01
		• Supine Driver 01

		•T- Handle 01	
		• Driver/ Extractor 01	
		• Skin Protector 01	
		• Bone AWL 01	
		• Tapered Reamer 01	
		• Proximal Drill Guide for Femoral Nails 01	
		• Slide Hammer 01	
		• Drill Sleeve (Long) 8.0mm DIA 01	
		• Drill Sleeve (Short) 8.0mm DIA 01	
		• Trocar for Drill Sleeve 01	
		• Drill Bit 305mm Long 3.2mm 01	
		• Drill Bit 305mm Long 4.8mm 01	
43	Small Fragment Set	• Drill Bit 3.2mm 01	
		• Drill Bits 4.5mm 01	
		• Bone Tap 6.5mm 01	
		• Bone Tap 4.5mm 01	
		• Tap Sleeve 3.5mm 01	
		• Tap Sleeve 4.5mm 01	
		• Drill sleeve for round hole plate 01	
		• Tap handling coupling 01	
		• Counter sink 4.5mm 01	
		• Neutral and loaded Drill Guide 3.2/4.5mm 01	
		• Insert sleeve 4.5/3mm 02	
		• Pointed Drill guide 01	
		• Socket Wrench 11mm 01	
		• Malleolar counter sink coupling 01	
		• Hexagonal screw driver 4.5mm 01	
		• Hexagonal screw driver shaft 4.5mm 01	
		• Combination wrench 11mm 01	
		• Death gauge for 4.5mm and 6.5mm screws 01	
		• Sharp hook 01	
		• Screw holding forceps 01	
		• Bending template 5H,7H,9H 03	
		• Compression device 8mm 01	
		• Plate bender large 01	
		• Pin wrench 01	
44	Large Fragment Set	• Drill Bit % 3.5 01	
		• Drill Bits % 2.5	
		• Small counter sink 01	
		• Small Hexagonal screw driver W/Holding sleeve	01
		• Small hexagonal screw driver W/End coupling fit	
		•Insert sleeves 3.5mm/2.5mm 02	.
		Periosteal elevator small straight edge	01
		• Bone tap 3.5mm/1.25mm pitch cortex	01
		• Bone tap 4.0mm/1.75mm pitch caneellous	01
		• Drill guide and drill sleeve for 2.0mm bit	01
		• Tap sleeve 3.5mm and drill sleeve 2.5mm	01
		• Tap sleeve 3.5mm and drill sleeve 2.7mm	01
		Neutral and loaded drill guide 3.5mm	01
		Troutal and loaded drift guide 3.311111	U1

	T	C 11 II - CC	01
		Small Hoffman retractor 6mmSmall Hoffman retractor 8mm	01
			01 02
		Self-centering bone holding forcepsReduction forcep	02
		Bending plier	01
		Hoffman retractor w/broad shank	01
			01
		Depth gage for 2.7-4.0mm screwsSharp hook	01
		• Bending template 7H,9H	02
		Plate bender small	01
		• Tap handle quick or coupling	01
45	DHS set	• Guide pin with thread	03
43	Dilo set	•H H S angle guide	01
		• DHS Triple reamer	01
		• Impactor	02
		• Tap for DHS	01
		• Coupling screw for plate insertion wit	
		• Coupling screw or screw removal	01
		• Quick coupling handle	01
		• Reverse measuring device	01
		• Centering sleeve for tap	01
		• Centering sleeve for wrench	01
		•DCS triple reamer	01
		•DCS angled guide	01
46	Obstetric surgery set minor and	1 Metzenbaum's scissors curved 7"	1
	major	2 Ditto 5/4"	1
		3 Scissor straight sharp/blunt 51/2"	1
		4 Mayo's scissor straight 61/2"	1
		5 Ditto curved 51/2"	1
		6 Ditto curved 61/2"	1
		Littauer's stitch scissor,hook end	•
		7 5"	1
		8 Wire cutting scissors	1
		C	1
		Dissecting forceps serrated points 9 5"	1
			1
		10 Ditto 8"	1
		Maingot's Dissecting forceps	
		11 serrated points 11"	1
		Treves Dissecting forceps 1x2	
		teeth 5"	1
		Waugh's Dissecting forceps fine	
		13 1x2 teeth 8"	1
		Mayo's tissue grasping forceps 9"	1
		15 Crile artery forceps straight 5/"	18
			24
		Ditto curved 5/4"" Pean's artery forceps curved 61/2"	24 18

	Ochsner's artery forceps tenaculum	
18	points 61/2"	12
19	Backhaus towel clips 5"	12
	Foerster's sponge forceps straight	
20	91/2"	6
21	Ditto curved 91/2""	6
	Balfour's abdominal	
	retractor,7"opening,21/2"deep	
22	lateral blade x 1 3/4"centre blade	1
23	Set(of 5 sizes)deaver's retractor	1
	Walton's malleable cooper	
24	retractor 11/2"x 12"	1
25	Ditto 2"x12"	1
	Morris retractors, blade 2"deep x	
26	21/2"wide	1
	Richardson's retractor, blade	
27	3/4"x13/4"	2
	Volkmann's retractor,4 prong	
28	blunt	2
29	Ditto,4 prong sharp	2
	Pair parker's double ended	
30	retractors, small 5/8"wide x 5"	1
31	Durham's retractor, blade 5/8" wide,	1
	Dupuytren's aneurysm needle and	
32	ligature carrier, curved to right	1
34	Ditto curved to left	1
35	Allis tissue forceps,5x6 teeth,6"	12
36	Babcock's tissue forceps 61/4"	6
37	Probe, with eve silver 6"	3
38	Ochsner's Trocar 6mm diam	1
39	Poole's abdominal suction tube	1
	Crile-woods needleholder,6", with	
40	diamond jaws	2
	Hagar's needleholders,7", with	
41	diamond jaws	2
42	Ditto 8", with diamond jaws	2
43	Graves Specula Small Size	2
44	Ditto medium size	2
45	Ditto large size	2
46	Jayle's self-retaining retractor	2
	Auvard's vaginal speculum	
47	weighted	1
	Sims duckbill speculum, double	
 48	ended, medium size	1

	D 0 4 4 11 1 42 1	
	Doyens flat retractor, blade 4"x1	2
49	1/8"	2
	Doyens rectangular retractor,	_
50	medium size	2
51	Golpe's Vulva retractor	1
	Bozemann's uterine dressing	
52	forceps 9/2"	2
	Foerster's sponge holding forceps	
53	91/2"	6
54	Heywood smith's Ovum forceps	2
	Wilson's Vulsellum forceps,1x1	
55	teeth,9/2"	6
	Teale's Vulsellumforceps, straight	
56	3x3 teeth,9"	2
	Uterine Vulsellum forceps,2x2	
57	teeth,10"	2
58	Doyen's myoma screw	1
	.Simpson's uterine sound, graduates	
59	in inches	1
	Randall's endometrial biopsy	
60	curette,luer-cone	1
	Van doren's uterine biopsy	
61	forceps,101/2"	1
	Leech-Wilkinson's uterine biopsy	
62	forceps,8"	1
63	B.P Scalpel handle No.4	2
64	Scissor straight sharp/blunt 51/2"	2
65	Mayo's scissor straight 6 1/2"	1
66	Ditto curved 61/2"	1
67	Wire cutting scissor 5"	1
	Dissection forceps, serrated points	
68	5"	2
	Vaginal Dissection forceps, with	
69	finger groove, serrated Ends 91/2"	1
70	Ditto,tenaculum points,81/2"	1
	Millin's dissection forceps,3x4	
71	teeth,9"	1
72	Backhaus towel clips 5"	6
	1 -	

TECHNICAL EVALUATION CRITERIA FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2020-2021

(Maximum Allocable Marks Score = 70 marks)

Technical Evaluation Criteria for the Purchase of Category-A equipment for FY 2020-2021

S No	Description of Variables	Allocated Points/Marks	
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		
2.1	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		
	affected. More than 4 minor deviation will be considered as major deviation	35	
	and the bidder will be considered as non-responsive for the quoted item. (One		
	mark for each deviation will be deducted).		
3	Product International Certification		
3.1	Certificate of verifiable US Food and Drug Administration (USFDA) 510K	Two certificates are	
	for the quoted model.	mandatory having no	
3.2	Certificate of European community Medical devices directive (CEMDD) of	marks while producing	
	the quoted model.	three certificates will	
3.3	Certificate of Verifiable Ministry of health labor and welfare Japan (MHLW)	get 5 marks.	
	of the quoted model. (Translated English Version)	5 (40)	
3.4	Additional features of the product (One mark for each additional feature if it	2 (42)	
	enhances the Performance of equipment in required Field or Additional		
	Software Provided Free of cost).		
4	Manufacturer Performance		
4.1	Valid ISO 13485 Medical Devices Quality Management Systems Certificate	3 (45)	
	for Quoted model.		
4.2	Weightage for local Pakistani original manufacturer.	4 (49)	
4.3	ISO 9001 Quality Management Certificate from IAF (International	3 (52)	
	Accreditation Forum).		
4.4	OSHAS 18001 / ISO 45001 Occupational Health & Safety Series from IAF	3 (55)	
	(International Accreditation Forum)		
5	After Sale Product Local Performance	<u> </u>	
5.1	One mark for each after sale satisfactory performance certificate (verifiable)		
	on letter head, signed and stamped letter for the quoted model or previous		
	provided model of equipment from the public sector medical institution of	6 (61)	
	Pakistan.Supply Order / Purchase Order / Installation reports / Delivery		
	challan will not be considered as satisfactory performance certificate.		

5.2	One mark for each after sale satisfactory performance certificate (verifiable) on letter head for the quoted model or previous provided model of equipment from the teaching level private sector medical institution of Pakistan. The hospital must be recognized from Pakistan Medical and Dental Council (PMC). The satisfactory performance certificate of non-recognized institution from PMC will not be considered. Supply Order / Purchase Order / Installation reports / Delivery challan will not be considered as satisfactory performance certificate. Warranty	3(64)
6.1	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 / Commissioning.	Mandatory Parameter
A	Total score of the Product / Manufacturer Evaluation Parameters	64
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. (1	2
	mark for each certificate)	
1.2	Engineer with PEC Registration in electrical / electronics, biomedical /	
	mechatronics / mechanical / industrial. PEC registration card of the engineer	6 (8)
1.2	must be submitted. (2 marks for each Engineer)	
1.3	BSc (Hons) Electronics / MSc Electronics / B-Tech (Hons) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. Degree of BSc	2 (10)
	/ MSc / B-Tech (Hons) must be submitted. (1 mark for each)	2 (10)
1.4	Factory trained technical staff on the quoted Products. (To be verified from	2 (12)
	the visa and passport)	\ /
2	Workshop facility Testing/ Calibration tools of Equipment	
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with	Mandatory
	Ownership / Rent Agreement with Owner / Rent Agreement with Company	
	Name.	
2.2	List of related tools available at workshop.	3 (15)
2.3	List of Testing and Calibration tools for the quoted items available at	3 (18)
2.4	workshop. Detail of Spare parts qualishility at workshop.	2 (21)
2.4	Detail of Spare parts availability at workshop.	3 (21)
3.1	Firm Financial Strength Marks will be allocated on the basis Annual turnover 100 M or above will be	3 (24)
3.1	awarded 3 mark in last 3 years. Rs.50 to Rs.99.9 M will be awarded 2 marks	3 (24)
	in last 3 years. Less than Rs.50M will be awarded 1 marks	
3.2	Last three years Sale tax returns (1 mark for each year).	3 (27)
3.3	Last three years Audited Balance Sheet Duly attested by Chartered	3 (30)
	Accountant (1 mark for each year).	` '
4	Firm Registration	
4.1	Firm registration at relevant forum (SECP/Registrar of Firm/FBR).	Mandatory
4.2	Firm registered with PEC / DRAP (Drug Regularity Authority of Pakistan) to	
	import / manufacture of medical devices where applicable.	3 (33)
4.4	Valid ISO 9001 Quality Management Certificate of the firm from PNAC accreditation body.	3 (36)
В	Total Score of the Firm Evaluation Parameters	36

A+B Total Score (A + B) $(64+36) = 10$
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TECHNICAL EVALUATION CRITERIA FOR MACHINERY & EQUIPMENT, INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2020-2021 (Maximum Allocable Marks Score = 70 marks)

Technical Evaluation Criteria for the Purchase of Category-B quipment for FY 2020-2021

Firm Name:	Bid Reference No:
1 IIII 1 (allie:	Bid Reference 110:

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		
2.1	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 affected. More than 4 minor deviation will be considered as major deviation and the bidder will be considered as non-responsive for the quoted item. (One mark for each deviation will be deducted).	35	
3	Product International Certification		
3.1	Certificate of verifiable US Food and Drug Administration (USFDA) 510K for the quoted model.	One certificate is mandatory having no	
3.2	Certificate of European community Medical devices directive (CEMDD) of the quoted model.	marks while producing other two certificates	
3.3	Certificate of Verifiable Ministry of health labor and welfare Japan (MHLW) of the quoted model. (Translated English Version)	will get 3 marks per certificate. 6 (41)	
3.4	Additional features of the product (One mark for each additional feature if it enhances the Performance of equipment in required Field or Additional Software Provided Free of cost).	2 (43)	
4	Manufacturer Performance		
4.1	Valid ISO 13485 Medical Devices Quality Management Systems Certificate for Quoted model.	3 (46)	
4.2	Weightage for local Pakistani original manufacturer.	4 (50)	
4.3	ISO 9001 Quality Management Certificate from IAF (International Accreditation Forum).	3 (53)	
4.4	OSHAS 18001 / ISO 45001 Occupational Health & Safety Series from IAF (International Accreditation Forum)	3 (56)	
5	After Sale Product Local Performance		

5.1	One mark for each after sale satisfactory performance certificate (verifiable)	
	on letter head, signed and stamped letter for the quoted model or previous	
	provided model of equipment from the public sector medical institution of	6 (62)
	Pakistan.	
	Supply Order / Purchase Order / Installation reports / Delivery challan will not	
	be considered as satisfactory performance certificate.	
5.2	One mark for each after sale satisfactory performance certificate (verifiable)	
	on letter head for the quoted model or previous provided model of equipment	
	from the teaching level private sector medical institution of Pakistan. The	
l	hospital must be recognized from Pakistan Medical and Dental Council	3(65)
	(PMC). The satisfactory performance certificate of non-recognized institution	
	from PMC will not be considered.	
	Supply Order / Purchase Order / Installation reports / Delivery challan will not	
	be considered as satisfactory performance certificate.	
6	Warranty	
6.1	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.	·
A	Total score of the Product / Manufacturer Evaluation Parameters	65
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. (1	2
	mark for each certificate)	
1.2	Engineer with PEC Registration in electrical / electronics, biomedical /	
	mechatronics / mechanical / industrial. PEC registration card of the engineer	6 (8)
	must be submitted. (2 marks for each Engineer)	
1.3	BSc (Hons) Electronics /MSc Electronics / B-Tech (Hons) in electrical /	
	electronic / biomedical / mechatronics / mechanical / industrial. Degree of BSc	2 (10)
	/ MSc / B-Tech (Hons) must be submitted. (1 mark for each)	
1.4	Factory trained technical staff on the quoted Products. (To be verified from	1 (11)
	the visa and passport)	
_		
2	Workshop facility Testing/ Calibration tools of Equipment	
2.1	Workshop facility Testing/ Calibration tools of Equipment Availability of workshop in Khyber Pakhtunkhwa to be verified with	Mandatory
		Mandatory
	Availability of workshop in Khyber Pakhtunkhwa to be verified with	Mandatory
	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company	Mandatory 3 (14)
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name.	·
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop.	3 (14)
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at	3 (14)
2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop.	3 (14) 3 (17)
2.1 2.2 2.3 2.4	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop. Detail of Spare parts availability at workshop.	3 (14) 3 (17)
2.1 2.2 2.3 2.4 3	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop. Detail of Spare parts availability at workshop. Firm Financial Strength Marks will be allocated on the basis Annual turnover 100 M or above will be	3 (14) 3 (17) 3 (20)
2.1 2.2 2.3 2.4 3	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop. Detail of Spare parts availability at workshop. Firm Financial Strength	3 (14) 3 (17) 3 (20)
2.1 2.2 2.3 2.4 3	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop. Detail of Spare parts availability at workshop. Firm Financial Strength Marks will be allocated on the basis Annual turnover 100 M or above will be awarded 3 mark in last 3 years. Rs.50 to Rs.99.9 M will be awarded 2 marks in last 3 years. Less than Rs.50M will be awarded 1 marks	3 (14) 3 (17) 3 (20) 3 (23)
2.1 2.2 2.3 2.4 3 3.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. List of related tools available at workshop. List of Testing and Calibration tools for the quoted items available at workshop. Detail of Spare parts availability at workshop. Firm Financial Strength Marks will be allocated on the basis Annual turnover 100 M or above will be awarded 3 mark in last 3 years. Rs.50 to Rs.99.9 M will be awarded 2 marks	3 (14) 3 (17) 3 (20)

4	Firm Registration	
4.1	Firm registration at relevant forum (SECP/Registrar of Firm/FBR).	Mandatory
4.2	Firm registered with PEC / DRAP (Drug Regularity Authority of Pakistan) to	
	import / manufacture of medical devices where applicable.	3 (32)
4.4	Valid ISO 9001 Quality Management Certificate of the firm from PNAC	3 (35)
	accreditation body.	
В	Total Score of the Firm Evaluation Parameters	35
A+B	Total Score (A + B)	(65+35) = 100

Technical Evaluation Criteria for the Purchase of Category-C Items for FY 2020-2021

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	Total compliance with specification given in statement of Requirement			
	subject to the clearance on sample test by the Inspection Committee.	60		
	Excellent Sample			
2.2	Total compliance with specification given in statement of Requirement			
	subject to the clearance on sample test by the Inspection Committee.	45		
	Good Sample			
2.3	Total compliance with specification given in statement of Requirement			
	subject to the clearance on sample test by the Inspection Committee.	30		
	Satisfactory Sample			
2.4	Sample rejected by inspection committee or low-quality sample			
	provided, the firm will be considered as non-responsive for the quoted	0		
	item and no marks will be awarded.			
3	After Sale Past Performance			
3.1	Two marks for each after sale satisfactory performance certificate (verifiable)			
	for the items on letter head from the teaching level Public sector medical	12 (72)		
	institution of Pakistan.	, ,		
	Supply Order / Purchase Order / Installation reports / Delivery challan will not			
	be considered as satisfactory performance certificate.			
3.2	Two marks for each after sale satisfactory performance certificate (verifiable)			
	for the items on letter head from the teaching level private sector medical	10 (82)		
	institution of Pakistan. The hospital must be recognized from Pakistan Medical			
	and Dental Council (PMC). The satisfactory performance certificate of non-recognized institution from PMC will not be considered.			
	Supply Order / Purchase Order / Installation reports / Delivery challan will not			
	be considered as satisfactory performance certificate.			
4	Manufacturer Performance			
4.1	Valid ISO 9001 Quality Management Certificate from PNAC accredited	3 (85)		
•	body.	- ()		
4.2	Valid ISO 13485 Medical Devices Quality Management Systems	3 (88)		
	Certificate from PNAC accredited body.	- (/		
4.3	Valid ISO 14001 Environmental Certificate from PNAC accredited body	3 (91)		
5	Warranty	\ \frac{\sigma}{\sigma}		
4.1	One-year warranty for instruments and three year for beds & other	No marks, being		
	hospital Supplies with replacement/repair of product.	Mandatory Parameter		
A	Total score of the Product Evaluation	91		
В	Firm / bidder Evaluation Parameters	<u> </u>		
1	The bidder will have to give valid proof of being manufacturer /	No marks, being		
1	importer. (Embassy attested authorization for importer is mandatory)	Mandatory Parameter		

3	Firm Financial Strength	
3.1	Marks will be allocated on the basis Annual turn over 10 M or above will be	3
	awarded 3 mark in last 3 years. Rs.5M to Rs.9.9 M will be awarded 2 marks in	
	last 3 years. Less than Rs.5M will be awarded 1 marks	
3.2	Last three years Sale tax returns	3 (6)
3.3	Last three years Audited Balance Sheet Duly attested by Chartered	3 (9)
	Accountant. (1 mark for each year).	
4	Office / Workshop facility	
4.1	Availability of office/workshop in Khyber Pakhtunkhwa to be verified	No marks, being
	with Ownership / Rent Agreement with Owner/ Rent Agreement with	Mandatory Parameter
	Company Name.	
В	Total Score of the Firm / Bidder Evaluation Parameters	9
A+B	Total Score (A+B)	(91+9)100

Technical Evaluation Criteria for the Purchase of Category D Items for FY 2020-2021

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	Total compliance with specification given in statement of Requirement subject to					
	the clearance on sample test by the Inspection Committee.	60				
	Excellent Sample					
2.2	Total compliance with specification given in statement of Requirement subject to					
	the clearance on sample test by the Inspection Committee.	45				
	Good Sample					
2.3	Total compliance with specification given in statement of Requirement subject to					
	the clearance on sample test by the Inspection Committee.	30				
	Satisfactory Sample					
2.4	Sample rejected by inspection committee or low-quality sample provided, the firm					
	will be considered as non-responsive for the quoted item and no marks will be	0				
	awarded.					
3	After Sale Past Performance					
3.1	Two mark for each after sale satisfactory performance certificate (verifiable) for					
	the quoted model or previous provided model of equipment on letter head from the	10 (70)				
	teaching level Public sector medical institution of Pakistan.					
	Supply Order / Purchase Order / Installation reports / Delivery challan will not be					
	considered as satisfactory performance certificate.					
3.2	Two mark for each after sale satisfactory performance certificate (verifiable) for					
3.2	the quoted model or previous provided model of equipment on letter head from the	6 (76)				
	private sector medical institution of Pakistan. Supply Order / Purchase Order /	0 (70)				
	Installation reports / Delivery challan will not be considered as satisfactory					
	performance certificate.					
4	Warranty					
4.1	One-year warranty for instruments and three year for beds & other hospital Supplies	No marks, being				
	with replacement/repair of product.	Mandatory Parameter				
A	Total score of the Product Evaluation	76				
В	Firm / bidder Evaluation Parameters	<u> </u>				
1	The bidder will have to give valid proof of being manufacturer / importer /	No marks, being				
	authorized dealer.	Mandatory Parameter				
2	Firm Financial Strength					
2.1	Marks will be allocated on the basis Annual turnover 10 M or above will be	9				
	awarded 3 mark in last 3 years. Rs.5 M to Rs.9.9 M will be awarded 2 marks in last					
	3 years. Less than Rs.5M will be awarded 1 marks					
2.2	Last three years Sale Tax returns (2 mark for each year).	6 (15)				
2.3	Last three years Audited Balance Sheet Duly attested by Chartered Accountant. (2	6 (21)				
	marks for each year).					

3	Office / Workshop facility	
3.1	Availability of office/workshop in Khyber Pakhtunkhwa to be verified with	No marks, being
	Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	Mandatory Parameter
3.2	Availability of manufacturing facility at national in case the bidder is manufacturer.	3 (24)
В	Total Score of the Firm / Bidder Evaluation Parameters	30
A+B	Total Score (A+B)	(76+24)100

Technical Evaluation Criteria for the Purchase of Category- E for FY 2020-21

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.	40				
3	After Sale Past Performance					
3.1	Two marks for each satisfactory performance certificate (verifiable) on letter head or signed and stamped from the public institution / hospital for the quoted item/brand.	12 (52)				
3.2	Two marks for each satisfactory performance certificate (verifiable) on letter head of private institution / hospital for the quoted item/brand.	10 (62)				
4	Warranty					
4.1	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	62				
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	Marks will be allocated on the basis Annual turnover 10 M or above will be awarded 3 mark in last 3 years. Rs.5 M to Rs.9.9 M will be awarded 2 marks in last 3 years. Less than Rs.5M will be awarded 1 marks	9				
2.2	Last three years Sale Tax returns (3 mark for each year).	9 (18)				
2.3	Last three years Audited Balance Sheet Duly attested by Chartered Accountant. (3 marks for each year).	9 (27)				
3	Human Resources					
3.1	Simple technician with a certificate / diploma. (1 mark for each certificate)	3 (30)				
3.2	Diploma of Associate Engineer (DAE) in electrical / electronic / mechatronics or relevant field. DAE certificate must be submitted. (2 marks for each certificate)	8 (38)				
4	Office / Workshop facility					
4.1	Availability of office/workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	No marks, being mandatory parameter				
В	Total Score of the Firm / Bidder Evaluation Parameters	38				
A+B	Total Score (A+B)	(62+38)100				

Technical Evaluation Criteria for the Purchase of Category- F Items for FY 2020-2021

Firm Name: _____ Bid Reference No:

irm Nai	me: 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							
2.1	Fully compliance with the required specifications as per statement of requirement.							
	Up to a maximum of four Minor deviations may be accommodated subject to the	40						
	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.	2 (42)						
3	Product / Firm Certification							
3.1	Authorization certificate from the manufacturer if the bidder is not a manufacturer.	No marks, being						
		Mandatory						
3.2	Registration with PEC in Codes ME03 & ME04. 1 Mark for ME 03 & ME 04	2 (44)						
3.3	CE certificate for the quoted model	2 (46)						
4	After Sale Product Local Performance							
4.1	One mark for each satisfactory performance certificate (verifiable) on letter head, signed	10 (56)						
	and stamped from the public sector organization for quoted capacity generator.							
4.2	One mark for each satisfactory performance certificate (verifiable) on letter head	10 (66)						
	of private organization for the quoted capacity generator.	` ,						
5	Manufacturer Performance							
5.1	Valid ISO 14001 or equivalent (Environmental Certificate) from IAF	4 (70)						
5.2	Valid ISO 9001 (Quality management Certificate).	4 (56)						
6.4	Comprehensive Warranty of 12 months (irrespective of running hors) with parts	No marks, being						
	and services from date of commissioning.	Mandatory						
A	Total score of the Product Evaluation Parameters	74						
В	Firm Evaluation Parameters							
1	Personnel/Human Resource							
1.1	Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical /	2						
	mechatronics / mechanical / industrial. (1 mark for each DAE)							
1.2	Graduate Engineer with PEC Registration in electrical / electronic / biomedical /	6 (8)						
1.2	mechatronics / mechanical / industrial. (2 marks for each engineer)	0 (0)						
2	Workshop facility / Mobile van / Training	4 (10)						
2.1	Fully Functional workshop at Peshawar.	4 (12)						
2.2	Fully Functional workshop at national level.	2 (14)						
2.3	Mobile after sales van in Khyber Pakhtunkhwa for on sight repair.	3 (17)						
3	Firm Financial Strength							
3.1	Marks will be allocated on the basis Annual turnover 10 M or above will be	3 (20)						
	awarded 3 mark in last 3 years. Rs.5 M to Rs.9.9 M will be awarded 2 marks in							
	last 3 years. Less than Rs.5M will be awarded 1 marks							
3.2	Last three years Sale Tax returns (1 mark for each year).	3 (23)						
3.3	Last year Audited Balance Sheet Duly attested by Chartered Accountant	3(26)						
В	Total Score of the Firm Evaluation Parameters	26						
A+B	Total Technical Score	74 +26(100)						

Technical Evaluation Criteria for the Purchase of Automatic Voltage Regulator (AVR), Uninterruptible Power Supply (UPS) and Solar System Category G for the Financial Year 2020-2021

Firm Name: _____ Bid Reference No: _____

S.	Description of Variables	Allocated
No.	Product / Manufacturer Evaluation Parameters	Points
1	Product General Information	
1.1	Ref. No of item in SBD Schedule of Requirement	
1.1	Name of equipment	
2	Conformance to Specification of fabrication	
2.1	Fully compliance with the required specifications as per Statement of	40
2.1	Requirement.	40
3	Manufacturer Performance	
3.1	Valid ISO 9001 Quality Management Certificate from IAF	5 (45)
3.2	CE Certificate for the quoted item.	5 (50)
4	After Sale Product Local Performance	3 (30)
4.1	Proof of firm experience in relevant field minimum 2-years' experience.	No marks, being Mandatory
4.2	One mark for each after sale satisfactory performance certificate (verifiable) on letter head or signed and stamped from the public sector institution / hospital for the quoted item. Supply Order / Purchase Order / Delivery challan will not be considered as satisfactory performance certificate.	10 (60)
4.3	One mark for each after sale satisfactory performance certificate (verifiable) on letter head of private institution / hospital for the quoted item. Supply Order / Purchase Order / Delivery challan will not be considered as satisfactory performance certificate.	10 (70)
5	Warranty	
5.1	Warranty Period of three years both with spare parts and services & Next two-year services only without parts, from the date of Installation / Commissioning. Two Years battery warranty. Total score of the Product / Manufacturer Evaluation Parameters	No marks, being Mandatory
A	l l	70
B	Firm Evaluation Parameters Parameters	
1 1 1	Personnel/Human Resource Diplome of Associate Engineer (DAE) in electrical /electronic /	
1.1	Diploma of Associate Engineer (DAE) in electrical /electronic / biomedical, mechatronics / mechanical / industrial. DAE certificate must be submitted. (2 marks for each certificate)	4
1.2	Graduate Engineer with PEC Registration in electrical/electronic / biomedical, mechatronics/mechanical / industrial. PEC card of the engineer must be submitted. Two Marks per Engineer	6 (10)
2	Workshop facility Testing/ Calibration tools of Equipment	

2.1	Availability of workshop in Khyber Pakhtunkhwa to be verified with	No marks,
	Ownership / Rent Agreement with Owner / Rent Agreement with Company	being
	Name.	Mandatory
2.2	Availability of workshop at National level to be verified with Ownership /	5 (15)
	Rent Agreement with Owner/ Rent Agreement with Company Name.	
2.3	List of Tools, Testing and Calibration tools for the quoted items available	3 (18)
	at workshop.	
2.4	Detail of Spare parts availability at workshop (inventory list).	3 (21)
3	Firm Financial Strength	
3.1	Marks will be allocated on the basis Annual turnover 10 M or above will be	3 (24)
	awarded 3 mark in last 3 years. Rs.5 M to Rs.9.9 M will be awarded 2 marks in	
	last 3 years. Less than Rs.5M will be awarded 1 marks	
3.2	Last Two years Audited Balance Sheet Duly attested by Chartered	6 (30)
	Accountant (2 marks for each year).	
4	Firm Registration	
4.1	Firm must be registered with PEC (Pakistan Engineering Council) in	No marks,
	category EE11. (For solar systems only)	being
		Mandatory
В	Total Score of the Firm Evaluation Parameters	30
A+B	Total Score (A + B)	(70+30) = 100

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: = $[86 \div 105] \times 30 = 24.57 \text{ Marks}$

- If the next higher quoted price of the same item is Rs. 130/-, the marks obtained will

be: = $[86 \div 130] \times 30 = 19.84 \text{ Marks}$

.... And so on.

Section VI. Sample Forms

MANDATORY STANDARD FORMS (1 to 5)

BID FORM 1: BID COVER SHEET

BID FORM 2: LETTER OF INTENTION

BID FORM 3: AFFIDAVIT

BID FORM 4: PRICE SCHEDULE FORMAT FOR FINANCIAL BID

(To be submitted in separate sealed envelope)

BID FORM 5: INTEGRALITY PACTS

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

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)	
	Please provide the following valid information	
4.	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: [Name and address of Procuring Agency]

Dear Sir/Madam,

Having examined the bidding documents, including Addenda Nos. [insert numbers & Date of individual Addendum], the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and deliver the Goods under the above-named Contract in full conformity with the said bidding documents and at the rates/unit prices described in the financial bid are not more than a trade price

&the prices are not more than the market rates.

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

agreement.

We agree to abide by this bid, for the Bid Validity Period specified in the Bid Data Sheet and it shall remain

binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this bid, together with your written

acceptance of the bid and your notification of award, shall constitute a binding Contract between us.

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

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

Dated this [insert: number] day of [insert: month], [insert: year].

Signed:

In the capacity of [insert:title or position]

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

Bid Form 3

AFFIDAVIT (on Judicial Stamp Paper)

I/We, the undersigned[Name of the Supplier]hereby solemnly declare and undertake

that:

1) We have read the contents of the Bidding Document and have fully understood

it.

2) 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 Supplier]

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 2020-21.

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)		

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. 2020-21.

In response to advertisement related t	to the bidding process / compe	etition regarding purchase and
supply of machinery and equipment, instr	rument and other hospital supp	olies for 2020-21 for the health
facilities /institutions through Procureme	ent Cell, DGHS I, Mr	s/o
bearing CNIC No, And havin	g the Designation of	In Messrs. (M/S) [Name
of Supplier] do hereby solemnly Affirm	, declare and certify on behal	f of M/S [Name of Supplier]
that:		

- 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.

Witness No. 1 Witness No. 2

RATE CONTRACT AGREEMENT (For successful bidders)

THIS RATE CONTRACT AGREEMENT is made and agreed today on _____ day of [Month], 2020-21between 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 Agreement, from the Supplier at the sole discretion of the individual Purchasing Agencies; and

WHEREAS the Supplier shall supply all the goods ordered by the Purchasing Agency to the latter in the quantity as mentioned in the supply order to be issued by the Purchasing Agency within the timeframe as mentioned in clause 17 of this contract agreement; Now, therefore, both the parties mutually agree to enter into this contract agreement as under:

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.

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.

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.

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.

The Procuring Agency shall arrange to obtain sample/s from each supplier before Finalization of award with the successful bidder in each category.

The Supplier will arrange demo for the physical inspection to the Procuring Agency and shall bear the associated cost.

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.

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 incharge of central workshop Peshawar all regional workshops.

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.

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.

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:

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.

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.

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.

WARRANTY:

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

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.

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
Kilybei Fakiitulikiiwa	CNIC No.
For and on behalf of Government of	Stamp:
Khyber Pakhtunkhwa, Health Department	For and on behalf of the Bidder
Peshawar	
WITNESS NO. 1	WITNESS NO. 2
Signature:	Signature:
Name:	Name:
Father's Name:	Father's Name:
Address:	Address:
CNIC No	CNIC No