

**PUBLIC NOTICE/TENDER NOTICE**

Sr. No.	Name of Department /Board/ Corp./ Auth	Name of Work/ Notice/ Tender	Starting date & ending date (Time)	Amount/EMD (Approx.) in Rupees	Website of the department	Nodal Officer/ Contact details/ Email	Tender Ref. No/ Tender No
1	Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana	Supply of items for Nursing Laboratories (Major/Minor equipment instruments, glassware, plasticware, reagents, chemicals)	06-May-2026 03:00 PM to 21-May-2026 03:05 PM	EMD Amount 60,000/-	www.svsu.ac.in	Deputy Registrar 9630661294, 9789234738, 7496873094 tenders@svsu.ac.in	Tender No. & Tender Id.- SVSU/2026/PS/SFASH/E-8854/290 & 2026_HRY_519830_1 ( <a href="http://etenders.hry.nic.in">http://etenders.hry.nic.in</a> )

**सावर्जनिक सूचना / निविदा सूचना**

क्रमांक	विभाग/बोर्ड/निगम/प्राधिकार का नाम	कार्य/ नोटिस/निविदा का नाम	आरंभ तिथि (समय) व समाप्ति तिथि (समय)	राशि/ईएमडी रूपये में,	विभाग की वेबसाइट	नोडल अधिकारी/ संपर्क विवरण/ ईमेल	निविदा संदभ्र संख्या/ निविदा संख्या
1	श्री विश्वकर्मा कौशल विश्वविद्यालय, दुधोला, पलवल, हरियाणा	नर्सिंग प्रयोगशालाओं के लिए वस्तुओं की आपूर्ति (मुख्य/लघु उपकरण एवं यंत्र, काँच के बर्तन, प्लास्टिक सामग्री, अभिकर्मक एवं रसायन)	06-May-2026 03:00 PM to 21-May-2026 03:05 PM	ई.एम.डी. राशि 60,000/-	www.svsu.ac.in	<b>डिप्टी रजिस्ट्रार</b> 9630661294, 9789234738, 7496873094 tenders@svsu.ac.in	टेंडर नं: SVSU/2026/PS/SFASH/E-8854/290 & 2026_HRY_519830_1 ( <a href="http://etenders.hry.nic.in">http://etenders.hry.nic.in</a> )



# SHRI VISHWAKARMA SKILL UNIVERSITY

(Enacted Under Government of Haryana, Act No. 25 of 2016)

Village-Dudhola, Palwal, Haryana- Phone: 9630661294,

9789234738,7496873094

Visit us at: [www.svsu.ac.in](http://www.svsu.ac.in)

Tender Document

**Supply of**

**Items for Nursing Laboratories**

**(Major/Minor equipment/Items, glassware,  
plasticware, reagents and chemicals)**

Tender No: SVSU/2026/PS/SFASH/E-8854/290

Dated: 06-05-2026

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MKJ



# 1. Notice Inviting Tenders

Sub: Notice Inviting Tenders for "Supply of Items for Nursing Laboratories (Major/Minor equipment/Items, glassware, plasticware, reagents and chemicals)".

Shri Vishwakarma Skill University, Haryana invites online Tender: "Supply of items for Laboratories( Major/Minor equipment's/instruments,glassware, palsticware, reagents & chemicals " through e-procurement on portal <https://etenders.hry.nic.in> from reputed Manufacturers/Authorized Dealers/ Distributors/Agent as per TENDER document. The TENDER documents may also be downloaded from website (<https://www.svsu.ac.in>) of Shri Vishwakarma Skill University, Haryana for reference only. A minimum eligibility criterion has been given in TENDER document.

Apart from uploading e-tender on website, bidder has to deposit EMD and Tender Fee + E-service fees along with other documents.

## 1.1. SCHEDULE

1.	Tender No	S
2.	E-Service Portal Fee + GST	As per E-tender portal
3.	Tender Fee + GST	
	(1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016.	NIL
	(2) For Haryana based manufacturing Startups / First Generation Entrepreneurs eligible as per State policy "Concession / benefits in Public Procurement to Startups/ First Generation Entrepreneurs of State" issued vide G.O No.2/2/2016-4I B-II dated 03.01.2019.	NIL
	(3) For remaining bidders both from the Haryana and Non-Haryana	As per E-tender portal
4.	EMD Amount	
	(1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME	NIL

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 [Signature 1] [Signature 2] [Signature 3] [Signature 4]



	-2016" notified vide G.O. No. 2/2/2016-4I BII (1) dated 20-10-2016.	
	(2) For Haryana based manufacturing Startups/First Generation Entrepreneurs eligible as per State policy "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O No.2/2/2016-4I B-II dated 03.01.2019.	NIL
	(3) Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana	NIL
	(4) For remaining bidders both from the Haryana and Non-Haryana	02 % of Tender Value/quoted value
5.	<b>Performance Security</b>	
	Haryana Based manufacturing Micro and Small Enterprises (MSEs)	0.2 % of the Total Order Value or estimated value of the rate contract
	Haryana Based Manufacturing Startups/First Generation Entrepreneurs	0.2 % of the Total Order Value or estimated value of the rate contract
	Haryana based other firms/enterprises	2 % of the Total Order Value or estimated value of the rate contract
	Other States/UTs based firms	5 % of the Total Order Value or estimated value of the rate contract
	# Haryana based MSEs and Startups/First Generation Entrepreneurs will be eligible for performance security deposit @ 0.2% who have filed Entrepreneurs Memorandum (Micro or Small Enterprise category) in the Industries Department Haryana and who participate directly in the tendered/quoted items and offering to supply the entire quoted quantity manufactured from their own Haryana based unit.	
6.	Product Warranty Period	3 Years
7.	Issue of Tender Document (Date of uploading of Tender & other Documents) (online)	
8.	Online Tender Download/Purchase Start Date	
9.	Last date for receipt of queries through Mail	
10.	Date of pre-bid meeting	
11.	Online proposal Submission Start Date	
12.	Online proposal Submission End Date	
13.	Opening of Technical Bid	
14.	Technical Presentation	Subsequent date to be informed later.
15.	Financial Bid	Subsequent date to be informed later.



16.	Validity period of Proposal	60 Days from the opening of financial bid.
17.	Address of Communication	Registrar Shri Vishwakarma Skill University, Village-Dudhola, Palwal, Haryana-121102
18.	Contact Officer Name, Phone Number and Email ID for this tender	

Note:

- Tender document can also be downloaded from University Website [www.svsu.ac.in](http://www.svsu.ac.in)
- Amendments to TENDER, if any, would be published on e-procurement website <https://etenders.hry.nic.in> & on SVSU website but not in newspaper.
- The concessions/benefits to MSMEs/startup subject to fulfillment/eligible as per Haryana State Public Procurement Policy for MSME -2016 notified vide G.O. No. 2/2/2016-4I BII (1) dated 20-10-2016 and turnover criteria as per Haryana Government (or as amended from time to time in this regard).
- Queries will be sent to the Officer appointed for this tender. Each Bidder will send only one e-mail containing the Pre-Bid Queries, as per format mentioned below. In case of more than one e-mail, only the queries provided in the first e-mail will be considered.

S. No.	Clause/Section/Reference/ Page/Paragraph	Existing clause/RFP Text	Queries/suggestions
1.			

Location of Supply: Takshila Bhawan, Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana -121102

*Sh* *gpt* *Suman* *MR2*

7.	Issue of Tender Document (Date of uploading of Tender & other Documents) (online)	06-05-2026 at 15:00 Hrs.
8.	Online Tender Download/Purchase Start Date	06-05-2026 at 15:05 Hrs.
9.	Last date for receipt of queries through Mail	11-05-2026 upto 11:00 Hrs.
10.	Date of pre-bid meeting	11-05-2026 at 12:30 Hrs.
11.	Online proposal Submission Start Date	06-05-2026 at 15:05 Hrs.
12.	Online proposal Submission End Date	21-05-2026 at 15:05 Hrs.
13.	Opening of Technical Bid	22-05-2026 at 16:00 Hrs.
14.	Technical Presentation	To be informed later
15.	Financial Bid	To be informed later



## 1.1. DISCLAIMER

The information contained in this Tender document or subsequently provided to the bidders, whether verbally or in documentary or any other form by or on behalf of Shri Vishwakarma Skill University, Haryana is provided to bidder on the terms and conditions set out in this TENDER and such other terms and conditions subject to which such information is provided.

Information provided in this TENDER to the bidders is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Shri Vishwakarma Skill University, Haryana accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

Shri Vishwakarma Skill University, Haryana also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance or any bidder upon the statements contained in this TENDER.

Shri Vishwakarma Skill University, Haryana may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this TENDER.

The issue of this TENDER does not imply that Shri Vishwakarma Skill University, Haryana is bound to select a bidder or to appoint the Selected Bidder, as the case may be, for the Consultancy and Shri Vishwakarma Skill University, Haryana reserves the rights to reject all or any of the Proposals without assigning any reasons whatsoever.

The bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by Shri Vishwakarma Skill University, Haryana or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the bidder and Shri Vishwakarma Skill University, Haryana shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a bidder in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.

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## 2. Instructions to Bidders

Subject: Invitation for "Supply of Items for Nursing Laboratories (Major/Minor equipment/Items, glassware, plasticware, reagents and chemicals)"

Bidders can access tender documents on the website of the University and fill them with all relevant information and submit the completed tender document with E- service Fee, Tender Fee and EMD amount online as per the schedule to <https://etenders.hry.nic.in>.

### 2.1. INSTRUCTIONS TO BIDDER FOR E-TENDERING

**Note:** Following conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable. Interested bidders can read the instructions related to e-tender system from the website [www.etenders.hry.nic.in](http://www.etenders.hry.nic.in).

#### 2.1.1. E-Tendering:

- 2.1.1.1. For participation in e-tendering module of Shri Vishwakarma Skill University, Haryana it is mandatory for prospective bidders to get registration on website <https://etenders.hry.nic.in>. Therefore, it is advised to all prospective bidders to get registration by making on line registration fees payment at the earliest.
- 2.1.1.2. Tender documents can be downloaded from website <https://www.svsu.ac.in>. However, the bidders have to upload complete tender document online along-with deposit of EMD amount and Tender Document Fee + E- service fee and without EMD amount & tender document + E Service fee bids will not be accepted.
- 2.1.1.3. E-service/gateway charges shall be borne by the bidders.
- 2.1.1.4. As per the directions of the Controller of Certifying Authorities, Ministry of Communication and Information Technology, Government of India, a **Class III Digital Certificate** shall be required to bid for all tenders solicited electronically. If the bidder does not have such a certificate, it may be obtained from any of the registering authorities or certification authorities. Kindly note that it may take at least three-five working days for the issue of a digital certificate. Bidders are advised to plan their time accordingly. Shri Vishwakarma Skill University, Haryana shall bear no responsibility/obligation for accepting bids

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which are delayed due to non-issuance or delay in issuance of such digital certificate.

- 2.1.1.5.** If bidder is bidding first time for e-tendering, then it is obligatory on the part of bidder to fulfil all formalities such as registration, obtaining Digital Signature Certificate etc. well in advance.
- 2.1.1.6.** Bidders are requested to visit our e-tendering website regularly for any clarifications and/or due date extension or corrigendum.
- 2.1.1.7.** Bidder must positively complete online e-tendering procedure at <https://etenders.hry.nic.in>
- 2.1.1.8.** Shri Vishwakarma Skill University, Haryana shall not be responsible in any way for delay/difficulties/ inaccessibility of the downloading facility from the website for any reason whatsoever.
- 2.1.1.9.** For any type of clarifications bidders/contractors can visit <https://etenders.hry.nic.in> and <https://www.svsu.ac.in>.
- 2.1.1.10.** The bidder whosoever is submitting the tender by his Digital Signature Certificate shall invariably upload the scanned copy of the followings.
  - 2.1.1.10.1.** Affidavits.
  - 2.1.1.10.2.** Authority Letter to Sign on behalf of bidder, if filled by authorize representative.
  - 2.1.1.10.3.** Authority Letter for use of Digital Signature, if filled by authorize representative
  - 2.2.1.10.4.** Technical Bid with all relevant enclosures.
  - 2.2.1.10.5.** The prospective bidders will upload scanned self-attested copies of technical bid as required in e-tendering process. Unattested documents will not be entertained.
  - 2.2.1.10.6** Also Upload scanned copy of tender cost+E-Service fee and EMD Amount.
- 2.1.1.11.** The Tender document cost+ E-Service Fee and EMD amount is to be deposited online by bidder.
- 2.1.1.12.** The tenders uploaded without/incomplete/partial EMD amount and tender fee + E-service fees shall be disqualified and Proposal will not be accepted.
- 2.1.1.13.** Any change/modifications/alteration in the TENDER by the Bidder shall not be allowed and such tender shall be liable for rejection.
- 2.1.1.14.** The tender document fees shall not be refunded.
- 2.1.1.15.** If the tenders are cancelled or recalled on any grounds, the tenders document fee & E-service fee will not be refunded to the bidders.

**2.1.2.** Technical bid: -

Bidders must positively complete online e-tendering procedure at <https://etenders.hry.nic.in>. They shall have to submit the documents as prescribed in the TENDER online in the website. The bidders may submit their complete bids (with all the requisite documents) in multiple files.



**2.1.3. Financial bid: -**

Bidder must submit the Price/Financial bid document (BOQ) as per the format given in TENDER/available online and uploaded as per instructions therein. **Physical submission of price bid shall not be considered.** The financial bids of technically qualified bidders shall be opened online at the notified date. The bidder will be informed about financial through email/telephonically.

**2.2.3.1 Shri Vishwakarma Skill University reserves the right for extension of due date of opening of financial bid.**

**2.2.3.2 Shri Vishwakarma Skill University reserves the right to accept or reject any or all tenders without assigning any reason what so ever.**

**2.2.3.3 In case due date for opening of tender document happens to be a holiday, the due date shall be shifted to the next working day for which no prior intimation will be given.**

**2.1.4.** For amendment, if any, please visit <https://etenders.hry.nic.in> web site regularly. In case of any bid addendum/amendment/corrigendum/Notice/clarification, the responsibility lies with the bidders to note the same from web site. The **Shri Vishwakarma Skill University, Haryana** shall have no responsibility for any delay/omission on part of the bidder.

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<< Organization Letter Head >>

**3. TERMS and CONDITIONS**

**3.1 Due date:** The tender has to be submitted online on or before the due date. No application will be received through post/e-mail/fax. The University would not be responsible for any delay.

**3.2 Tender Fee and E-Service Fee (Non-Refundable):** The Bidder should submit a non-refundable tender fee and e-service fee online. The Technical Bid without Tender fee would be considered as UNRESPONSIVE and will not be accepted. The tender fee will not be returned/refunded to any Bidder under any circumstances. If the tender is cancelled or recalled on any grounds, the Tender Document Fee and e-Service Fee will not be refunded to the bidder.

**3.3 Preparation of Bids:** The Technical and financial offer/bid should be submitted online. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate the price for the items mentioned in the technical bid. All pages of the technical bid have been signed with seal of firm by bidder/authorized signatory and **attested by Notary Public**. Unattested documents will not be entertained.

Revision in the technical bid and financial bid quoted in the offer will not be entertained after the last date and time fixed for receipt of tenders.

**3.4 Earnest Money Deposit (EMD) (if applicable):** While submitting bid, the BIDDER shall deposit an amount mentioned in tender document as Earnest Money, with the Institute through the following instruments:

**3.4.1** The Bidder should submit an EMD amount online. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The Earnest Money Deposit (EMD) in other form viz., Pay Order/Cheque etc. shall not be accepted.

**3.4.2** No interest shall be payable by the BUYER to the BIDDER on Earnest Money for the period of its currency.

**3.5 Refund of EMD:** The EMD shall be returned without any interest to unsuccessful Bidders only after the award of Purchase Order. In case of successful Bidder, EMD shall be returned without any interest after the submission of Performance Bank Guarantee.

EMD shall not be refunded, if the work order/purchase order is not accepted by the successful Bidder. In case, the offer is accepted, but not honored by the successful Bidder, the EMD shall be forfeited.

The EMD shall also be forfeited, if wrong information is furnished or any vital information is concealed in the tender document. Apart from it, he will be \_\_\_\_\_

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liable for any other action against him, as may be considered necessary by the Vice-Chancellor.

If the tender is cancelled or recalled on any grounds, the EMD will be returned to the bidder.

**3.6** Opening of the tender:

- 3.6.1** On the due date of e-tender opening, the technical bids of bidders will be opened online. Shri Vishwakarma Skill University, Haryana reserves the right for extension of due date of opening of technical bid.
- 3.6.2** The bid will be opened by a committee duly constituted for this purpose in presence of Bidder's representative if available. Only one representative will be allowed to participate in the tender technical bid opening. The Bidder if interested may participate on the tender opening Date and Time.
- 3.6.3** Bid received without or incomplete Tender Fee or EMD will be rejected out rightly.
- 3.6.4** Tenders which do not fulfil any or all of the terms & conditions or incomplete, are liable to be rejected.
- 3.6.5** Incomplete bidding will not be accepted; in such case the bid will not be considered.
- 3.6.6** The technical bid will be opened first and it will be examined by a technical committee (as per specification and requirement).
- 3.6.7** The financial offer/bid will be opened only of those bidders who qualify on the basis of their Technical Bid and will be opened in the presence of the bidder/bidder's representatives subsequently for further evaluation. Only one representative will be allowed to participate in the Financial bid opening. The date & time of opening of the Financial bids will be intimated in the due course.
- 3.6.8** The Bidder should produce authorization letter from their company to participate in the technical bid opening, Technical Presentation and Financial bid opening.
- 3.6.9** The University may call bidders for demonstration and presentation of the tools during technical evaluation. The cost for the demonstration will be borne by the supplier and University will not pay any TA/DA for presentation/ demonstration. If any firm fails to successfully demonstrate the system quoted by them, the Bid of that firm will not be considered.
- 3.6.10** Sample for offered items may be asked from tender during technical evaluation.
- 3.6.11** In case, due date for opening of tender happens to be a holiday, the due date shall be shifted to the next working day for which no prior intimation will be given.

- 3.7** Acceptance/ Rejection of bids: The Committee reserves the right to reject any bid not fulfilling the eligibility criteria.

**Eligibility Criteria:**

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- 3.7.1 An undertaking from the bidder is required stating that they would facilitate the Bidder on a regular basis with technology/product updates and extend support for the warranty as well. (Annexure-IV)
  - 3.7.2 Bidder should be registered Company, should have GST number and supporting documents to be submitted.
  - 3.7.3 Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between Bidder specification and supporting documents etc. may lead to rejection of the bid.
  - 3.7.4 Incomplete Tender such as unsigned Tender, late submitted Tender, conditional Tender, not confirming to the eligibility criteria and non-submitting Technical specification & compliance sheet with supporting documents or with any vaguer term such as 'Extra as applicable', will be considered as rejected.
  - 3.7.5 In the tender, either the bidder on behalf of the Principal/OEM or on behalf of Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
  - 3.7.6 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
  - 3.7.7 The Agency should not have incurred any loss for the last 3 financial years which is mandatory. Bidders should submit audited latest Balance Sheet, Profit and Loss statement, Turnover Sheet and Income Tax Return Acknowledgement Copy for last financial year.
- 3.8 Performance Security:
- 3.8.1 Performance Bank Guarantee is mandatory (annexure-VII).
  - 3.8.2 The Successful Bidder shall require to submit the performance security/Guarantee for an amount (as stated at "Schedule "of this tender) in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at the "Schedule" of the tender document within 21 days from the date of receipt of work order/purchase order and should be kept valid for a period of 180 days beyond the date of completion of warranty period. The Performance security in other form viz., FD/Term Deposit Receipt etc. shall not be accepted.
  - 3.8.3 The Successful Bidder should submit performance security/Guarantee as prescribed above to be received in the office of procurement department on or before 21 days from the date of issue of supply order acknowledgement.

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- 3.8.4** The Performance Bank Guarantee should be established in favour of **The Registrar, Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana 121102,** through any Bank situated at Palwal or outstation with a clause to enforced the same on their local branch at Palwal. Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful Bidder and the purchaser under the terms and conditions of acceptance to tender.
- 3.8.5** If the supplier shall not submit the performance security within 21 days from the date of receipt of work order/purchase order and if there is delay in submission of performance security, purchase order may be cancelled. The competent authority may accept the performance security after the above-mentioned deadline of 21 days' subject to submission of justification by the Bidder, however the decision of the competent authority is final in this regard.
- 3.8.6** The successful Bidder is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the terms and conditions and specification and all other documents referred to in the acceptance of tender.
- 3.8.7** The performance bank guarantee shall be kept valid during the period of contract.
- 3.9 Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 3.9.1** For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 3.9.2** If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser 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.
- 3.10 Risk Purchase Clause:** In event of failure of supply of the item within the stipulated delivery schedule, the purchaser has all the right to purchase the item from the other source on the total risk of the supplier under risk purchase clause.
- 3.11 Delivery and Documents:** Delivery of the goods should be supplied within 15 days from the date of supply order at Shri Vishwakarma Skill University, Dudhola, Palwal – 121102, Haryana or at that place to be informed by the SVSU. The material should be packed in a strong case so as to avoid any damage, theft or pilferage in the transit. In case of any damage, theft or pilferage, the responsibility shall be that of the

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supplier. The supplier shall mail the following documents to the purchaser:

**3.11.1** 4 Copies of the Supplier invoice showing invoice number, goods description, quantity, unit price, total amount

**3.11.2** Manufacturer's/Supplier's warranty certificate to be provided.

**Packing Instructions:** Each package will be marked on three sides with the proper paint /indelible ink the following:

- Item Nomenclature
- Order/Contract No.
- Country of Origin of Goods
- Supplier's Name and Address
- Consignee details
- Packing list reference number

**3.12 Liquidated Damages (L.D)/Penalty for Non-execution of Order:** If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to the purchaser to recover liquidated damages for delay in delivery from the supplier at the rate 1% (one percent) of the total cost of the material/contract per week or such other amount as the Registrar, SVSU, Dudhola, Palwal may decide till the supply/work remains incomplete, provide that the total amount of the compensation shall not exceed 10% (ten percent) of the total cost of the material/contract.

The installation, commissioning and demonstration will be completed within one month from the delivery/supply of the material, if the bidder fails to install and demonstrate the material on time then the Registrar will be competent to impose penalty @ 1% per week of the purchase order or such other amount as the Registrar may decide till the supply/work remains incomplete, provided that the entire amount of penalty shall not exceed 10% of the total amount of Purchase order.

After the lapse of 15 days beyond the stipulated/extended period, it will be the discretion of the University to cancel the supply/work execution order at the risk and the cost of the Supplier/contractor. Besides, forfeiture of the Earnest Money/Performance Security, the University shall be at liberty to take such action as recovery of compensation to the extent of 10% of the amount of the supply/contract order, blacklisting, etc. An appeal against this penalty shall, however, lie with the Hon'ble Vice-Chancellor (VC), Shri Vishwakarma Skill University, DUDHOLA, PALWAL, HARYANA, whose decision shall be final.

Note: It is mentioned that both, delivery penalty and installation penalty can also be imposed simultaneously.

If the Liquidated Damage exceeds 10% of the order value, SVSU reserves the right to terminate the contract and SVSU will get the job completed by any other competent party. The difference of cost incurred by SVSU will be recovered from the Earnest Money Deposited/Performance Security submitted by the bidder.

**3.13 Prices:** The price should be quoted in net per unit (after breakup) and must include



all packing, forwarding, freight, insurance charges, loading, unloading, delivery charges, Excise duty/custom duty etc. may be quantified in terms of amount. The offer/bid should be exclusive of GST, which will be paid by the purchaser as applicable. However, the percentage of GST shall be clearly indicated. Charges not mentioned in the quotation/tender shall not be paid.

**3.14 Rate contract with GEM or DS&D (Haryana):** If the bidder or their Principals are on rate contract with **GEM or DS&D (Haryana)**, this shall be mentioned specifically in the offer and a photocopy of the same, duly attested, may be appended.

**3.15 Resolution of Disputes:** The dispute resolution mechanism would be as follows:

**3.15.1** In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996 and the rules there under amended as on date. The dispute shall be referred to the Vice Chancellor, Shri Vishwakarma Skill University and if he is unable or unwilling to act, the sole arbitrator of some other person to be appointed by mutual consent willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. Further the proceedings shall be done in accordance with Indian Arbitration and Conciliation Act 1996.

**3.15.2** In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (i) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

**3.15.3** The venue of the arbitration shall be the place from where the order is being issued.

**3.16 Place of Jurisdiction:** The place of jurisdiction shall be district court Palwal Haryana.

**3.17 Right to Use Defective Goods:** If after delivery, acceptance within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

**3.18 Transfer and Subletting:** The supplier shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

**3.19 Supplier Integrity:** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

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**3.20 Warranty:**

**3.20.1** Warranty period shall be (as stated at "Schedule "of this tender) from date of successful/satisfactory inspection report and acceptance of the equipment/material/goods by the SVSU for each item/system on comprehensive basis.

**3.20.2** 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 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. The warranty should be comprehensive on site.

**3.20.3** The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall arrange to repair or replace the defective goods or parts within 10 days free of cost in Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana – 121102, Haryana or at that place to be informed by the SVSU. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 10 days. If the supplier having been notified fails to remedy the defects within 10 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

**3.20.4** The comprehensive warranty (if applicable) will commence from the date of the satisfactory installation/commissioning of the tools against the defect of any manufacturing, workmanship and poor quality of the components.

**3.21 Governing Language:** The contract shall be written only in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.

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**3.22 Interpretation Clause:** The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction i.e District court of Palwal.

**3.23 Notices:**

**3.23.1** Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address.

**3.23.2** A notice shall be effective when delivered or on the effective date of notice, whichever is later.

**3.24 Bid Currencies:** Prices shall be quoted in Indian National Rupee (INR).

**3.25 Taxes:** Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

**3.26 Payment:** For Indigenous supplies, 100% payment shall be made by the Purchaser against successful/satisfactory delivery, inspection, inspection report and acceptance of the equipment/material/goods at Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana- 121102, Haryana or at that place to be informed by the SVSU in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause of tender terms and conditions. Payment shall be released on receipt of the valid original bills in triplicate complete in all respect.

**3.27 Manuals, (if any):**

Bidder should submit the manual of tools in English language if applicable.

**3.28 Defective Equipment/parts:** If any of the tools supplied by the Supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the faculty/expert committee (committee constituted by The Registrar/Dean Academic/Dean Faculty) will have the right to reject the tools. The prices of such tools shall be refunded by the Supplier with 18% interest if payments for such tools have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found during warranty period, shall be replaced within 7 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace defective item as per above terms & conditions, SVSU may consider "Banning" the supplier and the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/ Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the university competent authority and the authority shall not be required to assign any reason therefore.

No payment shall be made for rejected material nor would the Supplier be entitled to claim for such items. Rejected items would be removed by the Supplier from the site within two weeks of the date of rejection at his own cost. In case

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they are not removed they will be auctioned at the risk and responsibilities of the Supplier without any further notice.

**3.29** Termination for Default:

**3.29.1** The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

**3.29.1.1.** If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser.

**3.29.1.2.** If the Supplier fails to perform any other obligation(s) under the Contract.

**3.29.1.3.** If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**3.29.2** For the purpose of this Clause:

**3.29.2.1.** "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.

**3.29.2.2.** "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 Bidder (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

**3.29.3** In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

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**3.30** Reservation of Rights:

- 3.30.1** The University reserved all the right to enhance or mitigate the quantity without any notice.
- 3.30.2** The University reserves all the right to accept or reject any or all tenders without assigning any reason what so ever at any stage and no further correspondence will be entertained in this regard.
- 3.30.3** The University reserved all the right to change any Date, Time and condition of Tendering without assigning any reasons.
- 3.30.4** The acceptance or rejection of the technical bid/tender will be the sole decision of the university.
- 3.30.5** The university is not bound to accept any Proposal, and reserves the right to annul the selection process at any time prior to award of Contract without thereby incurring any liability to the Consultant.
- 3.30.6** The University reserved all the right to call/demand any document from the bidder as and when required or to reject the bid.

**3.31** **Technical compliance:** The technical compliance report must be provided to indicating conformity to the technical specifications and agree to comply with the requirements and intent of specification. (Annexure-II)

**3.32** Evaluation of Offer:

- 3.32.1** L1 will be decided on the basis of the policy guidelines issued by Government of Haryana vide G.O. No. 2/2/2010-4I-BIII of dated 19/12/2011 (or as amended from time to time in this regard).
- 3.32.2** If in the event of a tie in L1 in the Financial bid, the university will negotiate with all the eligible bidders and the bidder whose quotes are lower than other bidders will be declared as L1.
- 3.32.3** Offer which deviates from the vital conditions (as illustrated below) of the tender shall be rejected:
- 3.32.3.1.** Non-submission of complete offers.
- 3.32.3.2.** Receipt of offers after due date and time and/or by post/email / fax (unless specified other-wise).
- 3.32.3.3.** No revision in the terms and conditions quoted in the offer shall be entertained after last date and time fixed for receipt of tender.

**3.33** **Negotiation of Rates:** Regarding negotiations of rates, policy issued by the State Government vide G.O. No.2/2/2010-4-IB-II dated 18.06.2013, G.O. No.2/2/2010-4-IB-II dated 16.06.2014, G.O. No.2/2/2010-4-IB-II dated 09.02.2015 will be applicable. The policy guidelines are available at <https://haryanaeprocurement.gov.in> on home page under section as Tender Forms."

**3.34** **Sanctions for Violations:** Any breach of the aforesaid terms & Conditions and Technical Specification, requirements & conditions by the bidder or any one employed by it or acting on its behalf (whether with or without the



knowledge of the bidder) shall entitle the buyer to take all or any one of the following actions, wherever required:

- 3.34.1** To immediately call the pre-contract negotiations with other bidders without assigning any reason or giving any compensation to the bidder. However, the proceedings with the other bidder(s) would continue.
  - 3.34.2** The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the buyer and the buyer shall not be required to assign any reason therefore.
  - 3.34.3** To immediately cancel the contract, if already signed without giving any compensation to the bidder.
  - 3.34.4** To recover all sums already paid by the buyer, and in case of an Indian bidder with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a bidder from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the bidder from the buyer in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
  - 3.34.5** To encash the advance bank guarantee and performance guarantee/warranty bond, if furnished by the bidder, in order to recover the payments, already made by the buyer, along with interest.
  - 3.34.6** To cancel all or any other contracts with the bidder. The bidder shall be liable to pay compensation for any loss or damage to the buyer resulting from such cancellation/rescission and the buyer shall be entitled to deduct the amount so payable from the money(s) due to the bidder.
  - 3.34.7** To debar the bidder from participating in future bidding processes of the University for a minimum period of two years, which may be further extended at the discretion of the buyer.
  - 3.34.8** Forfeiture of Performance Bank Guarantee in case of a decision by the buyer to forfeit the same without assigning any reason for imposing sanction for violation.
  - 3.34.9** Legal action may be initiated against such Bidder in case any of the information submitted by the Bidder is found to be false at any stage of the contract.
- 3.35 BID SIGNING:** The Tender must be signed by authorized signatory of the bidding firm/company on each page of the bid, along with seal of the firm/company.
- 3.36 Conditional Bid:** Conditional Bid is not acceptable. Hence, the supplier is advised neither to alter the specification nor to mention anything on the Tender form, except cost, signature with seal, otherwise his Tender will not be considered. Conditional tenders will not be entertained at all and are liable to be rejected summarily.



There should not be any alterations in the bidding documents. In case any alteration is found at any stage, the tender shall be liable for rejection summarily without further appeal.

- 3.37 Delivery Period:** Order must be completed within 15 days from date of receipt of supplied order.
- 3.38 Contacting to SVSU Officers:** Bidder shall not approach SVSU officers beyond office hours and/or outside SVSU office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to influence SVSU office in the decision on Bid evaluation, bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of SVSU, it should be in writing.
- 3.39 Forfeiture of EMD/ BG/Performance Security:** EMD/ BG/Performance Security made by bidder may be forfeited under the following conditions:
- 3.39.1** During the evaluation process, if a bidder indulges in any such activity as would jeopardize the process, the decision of SVSU regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.
- 3.39.2** If bidder violates any of the provisions of the terms and conditions of the proposal.
- 3.39.3** In case supplier fails to fulfil the all terms & conditions and Technical Specification, requirements & conditions, SVSU may consider "Banning" the supplier and the Earnest Money Deposit (in pre- contract stage) and/or Security Deposit/Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the SVSU and the SVSU shall not be required to assign any reason therefore.
- 3.39.4** In the case of a successful bidder, if bidder fails to:
- 3.39.4.1.** Accept the work order along with the terms and conditions.
- 3.39.4.2.** Furnish performance security.
- 3.39.4.3.** Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- 3.39.4.4.** Submitting false/misleading information/ declaration/ documents/ proof/etc.
- 3.39.4.5.** The decision of SVSU regarding forfeiture of EMD/ BG shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD/ BG even the bidder will be deferred from participating in any job for a period of two years. **Amendment of Tender Document:** At any time before the deadline for submission of tender, SVSU may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective firm, modify the Tender document by amending, modifying and/or supplementing the same. All prospective firms shall be notified of any amendments on e-tender website and/or SVSU web site and all such amendments shall be binding on them without any further act or deed on SVSU's part. The prospective firms are advised to periodically browse e- tender

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website and/or university website [www.svsu.ac.in](http://www.svsu.ac.in) to find out any further addendum/amendment/corrigendum/Notice/clarification published with respect to this tender. In case of any bid addendum/ amendment/corrigendum/Notice/clarification, the responsibility lies with the bidders to note the same from web site. The **Shri Vishwakarma Skill University, Haryana** shall have no responsibility for any delay/omission on part of the bidder. In the event of any amendment, SVSU reserves the right to extend the deadline for the submission of the bids, in order to allow prospective Bidders reasonable time in which to take the amendment into account while preparing their bids.

**3.40 Amendment of Tender Document:** At any time before the deadline for submission of tender, SVSU may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective firm, modify the Tender document by amending, modifying and/or supplementing the same. All prospective firms shall be notified of any amendments on e-tender website and/or SVSU web site and all such amendments shall be binding on them without any further act or deed on SVSU's part. The prospective firms are advised to periodically browse e- tender website and/or university website [www.svsu.ac.in](http://www.svsu.ac.in) to find out any further addendum/amendment/corrigendum/Notice/clarification published with respect to this tender. In case of any bid addendum/ amendment/corrigendum/Notice/clarification, the responsibility lies with the bidders to note the same from web site. The **Shri Vishwakarma Skill University, Haryana** shall have no responsibility for any delay/omission on part of the bidder. In the event of any amendment, SVSU reserves the right to extend the deadline for the submission of the bids, in order to allow prospective Bidders reasonable time in which to take the amendment into account while preparing their bids.

**3.41 Model Clause for Land Border Sharing Countries with India:** As per the Order of Ministry of Finance, Department of Expenditure, Public Procurement Division. F.No. 6-18-2019-PPD Date 23/07/2020, any bidder from such countries sharing a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) **only if the bidder is registered with the Competent Authority, Specified in Model Clause and Certificate Annex –XVI.**

The Competent Authority for the purpose of Registration under this order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

Bidders can read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India as per the Order of Ministry of Finance, Department of Expenditure, Public Procurement Division. F.No. 6-18-2019-PPD Date 23/07/2020.

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**3.42 Special Terms and Conditions:**

- 3.42.1** The offer without complete or partial prescribed earnest Money, tender Fee & E-Service fee is liable to be summarily rejected.
- 3.42.2** The deficiency in the documents and tender requirement can be made subject to the decision made by procurement department/all the tender committees individually has a right to call/demand any document from the bidder as and when required or to reject the bid. Procurement department/all the tender committees individually are empowered to take any action/decision /requirement of documents at any stage.
- 3.42.3** Any company/firm/dealer/manufacturer black listed by Central/State Government/Autonomous organization are not entitled to submit the tender. If it is submitted, it will be rejected and Earnest Money Depositor/and Performance security will be seized and legal action will be taken against them.
- 3.42.4** The firm/agency/bidder should not be black-listed/de-listed/debarred/demobilized for poor or unsatisfactory performance from any project by Govt. of India/Any other State Govt./Haryana Govt. or its Departments/agencies etc. for which he has to submit the affidavit.
- 3.42.5** Bidder should abide to all terms and conditions and Technical Specification stipulated in tender document and Supply of tools etc. in running condition within stipulated time frame for which he has to submit the affidavit.
- 3.42.6** Bidder should submit affidavit for Authenticity and correctness of information/documents stipulated in tender document.
- 3.42.7** Bidder should submit the Affidavit and relevant certificate/document regarding seeking benefits/ concessions by Haryana based manufacturing Micro, Small and Medium Enterprises (MSEs) and Startups/First Generation Entrepreneurs (If Applicable)
- 3.42.8** The foreign manufacturer or their Indian representative will ensure a proper service after sale as per requirement from time to time, against the guarantee/warranty clause as per the terms and conditions agreed. Any negligence on this account shall be the sole responsibility of foreign bidder and liability for compensation will be fixed up by the Department.
- 3.42.9** Reference, information and certificates from the respective clients certifying technical and execution capability should be signed and the contact numbers of all such clients should be mentioned. The University may also independently seek information regarding the performance from the clients and visit referred customers' consortium partner in India/Abroad at bidder cost.
- 3.42.10** In case any BIDDERS is silent on any clauses mentioned in this tender document, the Institute shall construe that the BIDDERS had accepted the clauses as per the invitation to tender.
- 3.42.11** The concessions/benefits to MSMEs/startup subject to fulfillment/eligible as per Haryana State Public Procurement Policy for MSME -2016 notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-

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10-2016 and turnover criteria as per Haryana Government (or as amended from time to time in this regard).

**3.42.12** All the terms and conditions and Technical specifications contained in the Tender document shall be the part of this agreement.

**3.42.13 Pre-dispatch inspection (if required):** Pre-dispatch inspection shall be done by representatives of Department at the site of vendor/place of same item supplied by the vendor. An inspection report stating conformations to the specifications as laid down in the tender document and about satisfactory report of the Items for Nursing Laboratories (major/minor equipment/items, glassware, plasticaware, reagents and chemicals) during test trials will be submitted. Non-conformity to the specifications/unsatisfactory performance during test trails/defects (if any) will lead to the rejection of the tools.

**3.42.14** Supplier should supply the tools on item wise basis as mentioned in tender document and partial bidding will be accepted.

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### Advance Nursing Lab

S. NO.	Items Description	Technical Specification	Quantity
1.	<b>Electronic ICU cot with appropriate attachments</b>	<p><b>Structure &amp; Build</b></p> <ul style="list-style-type: none"><li>• <b>Frame Material:</b> Epoxy-coated mild steel or stainless steel (rust-proof, antimicrobial coating preferred)</li><li>• <b>Platform:</b> 4-section perforated sheet (for ventilation and mattress support)</li><li>• <b>Load Capacity:</b> Minimum 200–250 kg</li><li>• <b>Dimensions:</b> Approx. 2000 mm (L) × 900 mm (W)</li></ul> <hr/> <p><b>2. Electrical Functions (Motorized)</b> Controlled via <b>handset / control panel / nurse control unit:</b></p> <ul style="list-style-type: none"><li>• Backrest elevation: 0° to 70–75°</li><li>• Knee rest elevation: 0° to 35–45°</li><li>• Height adjustment: 450 mm to 750 mm (or wider range)</li><li>• Trendelenburg position: 12°–15°</li><li>• Reverse Trendelenburg: 12°–15°</li><li>• Cardiac chair position (one-touch)</li><li>• CPR quick release (manual + electric)</li></ul> <hr/> <p><b>3. Control System</b></p> <ul style="list-style-type: none"><li>• Wired or wireless remote handset</li><li>• Backup battery (for power failure)</li><li>• Central locking system for controls (nurse lock)</li><li>• Optional integration with nurse call system</li></ul> <hr/> <p><b>4. Side Rails</b></p> <ul style="list-style-type: none"><li>• Foldable / collapsible ABS or stainless steel rails</li><li>• Safety locking mechanism</li><li>• Integrated control panels (optional)</li></ul> <hr/> <p><b>5. Mattress Platform &amp; Mattress</b></p> <ul style="list-style-type: none"><li>• <b>Platform:</b> Radiolucent (optional for X-ray compatibility)</li><li>• <b>Mattress:</b> High-density foam or air mattress<ul style="list-style-type: none"><li>○ Waterproof</li><li>○ Antibacterial</li></ul></li></ul>	1

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- Fire-retardant
- Optional: Alternating pressure mattress for bedsore prevention

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**6. Castors (Wheels)**

- 125–150 mm diameter
- Central braking system
- Anti-static wheels
- Directional locking (for easy movement)

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**7. Head & Foot Panels**

- Detachable ABS molded panels
- Easy cleaning & quick release
- Locking mechanism

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**8. Standard Attachments**

- IV pole (height adjustable, stainless steel)
- Urine bag holder
- Oxygen cylinder holder
- Utility hooks
- Drainage bag holders

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**9. Optional / Advanced Attachments**

- Bedside monitor shelf
- Ventilator tray
- Infusion pump stand
- Dialysis machine support
- X-ray cassette holder
- Bed weighing scale (in-built)
- Bed exit alarm system
- Nurse call integration
- USB/charging ports (modern setups)

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**10. Safety Features**

- CPR lever (both sides)
- Emergency lowering function
- Side rail safety sensors (advanced models)
- Electrical safety compliance (IEC standards)
- Overload protection

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**11. Power Supply**

- 220–240V AC, 50 Hz (India standard)
- Low voltage DC motors
- Battery backup for at least 2–4 hours operation

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		<b>12. Compliance &amp; Standards</b> <ul style="list-style-type: none"><li>• ISO certification (e.g., ISO 13485 for medical devices)</li><li>• CE marking (European conformity)</li><li>• IEC 60601 (electrical safety for medical equipment)</li></ul>	
2.	<b>Advanced IV arm/Arterial puncture arm</b>	<b>General Description</b> <ul style="list-style-type: none"><li>• A <b>high-fidelity vascular access training model</b> designed for:<ul style="list-style-type: none"><li>○ Intravenous (IV) cannulation</li><li>○ Venipuncture / phlebotomy</li><li>○ Arterial puncture (ABG sampling)</li></ul></li><li>• Suitable for <b>medical, nursing, paramedical, ICU, and emergency training</b></li></ul> <b>2. Anatomical Features</b> <ul style="list-style-type: none"><li>• Life-size <b>adult human arm model</b> with realistic skin texture</li><li>• Anatomically correct vascular system including:<ul style="list-style-type: none"><li>○ Cephalic vein</li><li>○ Basilic vein</li><li>○ Median cubital vein</li><li>○ Dorsal hand veins</li><li>○ Radial and brachial arteries</li></ul></li><li>• Palpable arterial pulse (radial/brachial)</li></ul> <hr/> <b>3. Functional Capabilities</b> <ul style="list-style-type: none"><li>• Practice of:<ul style="list-style-type: none"><li>○ IV cannulation and infusion</li><li>○ Blood collection and phlebotomy</li><li>○ Arterial puncture and ABG sampling</li></ul></li><li>• Realistic simulation of:<ul style="list-style-type: none"><li>○ Needle “pop” sensation</li><li>○ Blood flashback on correct insertion</li><li>○ Pulsatile arterial flow for differentiation</li></ul></li><li>• Supports:<ul style="list-style-type: none"><li>○ Bolus injection</li><li>○ Catheter fixation</li></ul></li></ul> <b>4. Fluid &amp; Circulation System</b> <ul style="list-style-type: none"><li>• Closed-loop system with:<ul style="list-style-type: none"><li>○ Artificial blood reservoir</li></ul></li></ul>	1.

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		<ul style="list-style-type: none"> <li>○ Tubing for venous and arterial circulation</li> <li>• Advanced models include:             <ul style="list-style-type: none"> <li>○ <b>Pulsatile arterial pump (adjustable heart rate)</b></li> <li>○ Continuous flow for repeated practice</li> </ul> </li> </ul> <p><b>5. Material &amp; Durability</b></p> <ul style="list-style-type: none"> <li>• High-quality <b>silicone / latex-free synthetic skin</b></li> <li>• Self-sealing or replaceable:             <ul style="list-style-type: none"> <li>○ Skin pads</li> <li>○ Veins and arteries</li> </ul> </li> <li>• Designed for <b>multiple punctures (high durability)</b></li> </ul> <hr/> <p><b>6. Advanced Features (Preferred)</b></p> <ul style="list-style-type: none"> <li>• Adjustable arterial pulse rate and pressure</li> <li>• Ultrasound compatibility (in premium models)</li> <li>• Transillumination for vein visualization</li> <li>• Realistic resistance during needle insertion</li> <li>• Modular design for easy replacement</li> </ul> <p><b>7. Accessories / Attachments</b></p> <ul style="list-style-type: none"> <li>• Artificial blood fluid</li> <li>• Syringes, needles (training purpose)</li> <li>• IV stand and fluid bag</li> <li>• Replacement vessel kits</li> <li>• Carry case</li> <li>• Power supply (for electronic circulation models)</li> </ul> <p><b>8. Dimensions &amp; Build</b></p> <ul style="list-style-type: none"> <li>• Approximate length: <b>50–70 cm arm model</b></li> <li>• Weight: <b>3–12 kg depending on model</b></li> <li>• Portable tabletop or stand-mounted design</li> </ul>	
3	<b>Central venous cannulation trainer</b>	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• A <b>high-fidelity medical simulation trainer</b> designed for practicing <b>central venous catheterization (CVC)</b></li> <li>• Suitable for <b>medical colleges, nursing institutions, ICU training, anesthesia, and emergency medicine</b></li> </ul>	1

- Supports both **landmark-based and ultrasound-guided techniques**

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## 2. Anatomical Features

- Realistic **adult upper torso / neck model**
- Anatomically accurate landmarks:
  - Sternocleidomastoid muscle
  - Clavicle
  - Sternal notch
- Simulated vessels:
  - Internal jugular vein
  - Subclavian vein
  - External jugular vein
  - Carotid artery

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## 3. Functional Capabilities

- Enables practice of:
  - Needle insertion
  - Guidewire insertion
  - Dilatation and catheter placement (Seldinger technique)
- Simulates:
  - Blood flashback on correct puncture
  - Vessel puncture resistance and “tenting”
- Allows full **central line insertion workflow training**

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## 4. Ultrasound Compatibility

- Compatible with standard ultrasound probes
- Allows:
  - Vessel identification (vein vs artery)
  - Real-time needle visualization
- Provides realistic **tissue echogenicity**



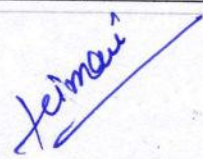

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## 5. Material & Durability

- High-quality synthetic tissue with realistic feel
- Replaceable:
  - Skin pads
  - Vessel tubing
  - Muscle and bone inserts
- Designed for:

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		<ul style="list-style-type: none"> <li>○ <b>Multiple punctures (1000+ needle insertions typical in advanced models)</b></li> </ul> <hr/> <p><b>6. Fluid Simulation System</b></p> <ul style="list-style-type: none"> <li>• Closed-loop system with artificial blood</li> <li>• Features:             <ul style="list-style-type: none"> <li>○ Blood flashback confirmation</li> <li>○ Injection and withdrawal capability</li> </ul> </li> <li>• Reservoir/bag system (manual or gravity-fed)</li> </ul> <hr/> <p><b>7. Positioning &amp; Ergonomics</b></p> <ul style="list-style-type: none"> <li>• Head positioned (<math>\approx 10^\circ</math> rotation) for realistic access</li> <li>• Adjustable base with:             <ul style="list-style-type: none"> <li>○ Trendelenburg positioning (<math>\sim 15^\circ</math>)</li> </ul> </li> <li>• Stable base for tabletop use</li> </ul> <hr/> <p><b>8. Accessories / Attachments</b></p> <ul style="list-style-type: none"> <li>• Artificial blood fluid</li> <li>• Syringes, needles, guidewires</li> <li>• Replaceable skin and vessel kits</li> <li>• Fluid reservoir/bag system</li> <li>• Carry/storage case</li> <li>• Instruction manual</li> </ul> <hr/> <p><b>9. Dimensions &amp; Weight (Typical)</b></p> <ul style="list-style-type: none"> <li>• Approximate size: <b>40–50 cm torso model</b></li> <li>• Weight: <b>5–10 kg</b></li> </ul>	
4	ECG machine	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• Digital <b>12-lead ECG machine</b> for recording electrical activity of the heart</li> <li>• Suitable for <b>hospital, ICU, OPD, emergency, and ambulance use</b></li> <li>• Should provide <b>simultaneous 12-lead acquisition</b></li> </ul> <hr/> <p><b>2. Acquisition &amp; Leads</b></p> <ul style="list-style-type: none"> <li>• Standard 12 leads (<b>I, II, III, aVR, aVL, aVF, V1–V6</b>)</li> </ul>	1



	<ul style="list-style-type: none"><li>• Simultaneous acquisition of all leads</li><li>• Lead-off detection and indication</li></ul> <hr/> <p><b>3. Display &amp; Interface</b></p> <ul style="list-style-type: none"><li>• Minimum <b>5–7 inch color LCD screen</b></li><li>• Real-time waveform display</li><li>• User-friendly interface with keypad/touchscreen</li></ul> <hr/> <p><b>4. Recording &amp; Printing</b></p> <ul style="list-style-type: none"><li>• Built-in <b>thermal printer (3/6/12 channel formats)</b></li><li>• Multiple print formats (e.g., 3×4, 6×2, 12×1)</li><li>• Automatic and manual recording modes</li></ul> <hr/> <p><b>5. Measurement &amp; Analysis</b></p> <ul style="list-style-type: none"><li>• Automatic ECG interpretation (optional but preferred)</li><li>• Parameters:<ul style="list-style-type: none"><li>○ Heart rate</li><li>○ PR interval</li><li>○ QRS duration</li><li>○ QT/QTc</li></ul></li><li>• Arrhythmia detection</li></ul> <hr/> <p><b>6. Data Storage &amp; Connectivity</b></p> <ul style="list-style-type: none"><li>• Internal memory storage (≥100 ECG records)</li><li>• USB / LAN / Bluetooth (optional)</li><li>• Export to PC / EMR system</li></ul> <hr/> <p><b>7. Power Supply</b></p> <ul style="list-style-type: none"><li>• Operates on <b>AC 220–240V, 50 Hz</b></li><li>• Built-in rechargeable battery (minimum 2–4 hours backup)</li></ul> <hr/> <p><b>8. Filters &amp; Signal Quality</b></p> <ul style="list-style-type: none"><li>• Digital filters:<ul style="list-style-type: none"><li>○ AC interference filter</li><li>○ EMG filter</li><li>○ Baseline drift filter</li></ul></li><li>• High sampling rate with noise reduction for accurate signals</li></ul>	
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		<p><b>9. Accessories</b></p> <ul style="list-style-type: none"> <li>• Patient cable (10-lead)</li> <li>• Limb electrodes (4)</li> <li>• Chest electrodes (6)</li> <li>• ECG paper rolls</li> <li>• Conductive gel</li> <li>• Power cord and user manual</li> </ul> <hr/> <p><b>10. Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>• Compact, lightweight, portable</li> <li>• Weight: typically <math>\leq 5</math> kg</li> </ul> <hr/> <p><b>11. Standards &amp; Compliance</b></p> <ul style="list-style-type: none"> <li>• CE / ISO certification</li> <li>• IEC safety standards for medical electrical equipment</li> </ul>	
5	<b>Defibrillator CPR trainer</b>	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• Training device designed to simulate the operation of an <b>Automated External Defibrillator (AED)</b> during CPR</li> <li>• Used for <b>CPR/AED training programs, BLS, ACLS, nursing, and emergency response training</b></li> <li>• <b>Must not deliver real electrical shock</b> (training-only device)</li> </ul> <p><b>Simulation Features</b></p> <ul style="list-style-type: none"> <li>• Realistic AED operation including: <ul style="list-style-type: none"> <li>○ Voice prompts guiding the user step-by-step</li> <li>○ Shock advisory simulation (no actual shock delivery)</li> <li>○ CPR pause and resume prompts</li> </ul> </li> <li>• Pre-programmed scenarios: <ul style="list-style-type: none"> <li>○ Normal sinus rhythm</li> <li>○ Ventricular fibrillation (VF)</li> <li>○ Ventricular tachycardia (VT)</li> </ul> </li> <li>• Ability to simulate: <ul style="list-style-type: none"> <li>○ Shockable and non-shockable rhythms</li> </ul> </li> </ul> <hr/> <p><b>3. User Interface &amp; Controls</b></p> <ul style="list-style-type: none"> <li>• Clear <b>audio-visual instructions</b></li> </ul>	1

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		<ul style="list-style-type: none"><li>• Remote control or app-based instructor control (preferred)</li><li>• Scenario selection and customization options</li><li>• LED indicators for system status</li></ul> <p><b>4. Training Electrodes (Pads)</b></p> <ul style="list-style-type: none"><li>• Reusable adhesive training pads</li><li>• Clearly marked placement positions</li><li>• Compatible with adult and pediatric training modes</li><li>• Replaceable pads for repeated use</li></ul> <p><b>5. CPR Integration</b></p> <ul style="list-style-type: none"><li>• Compatible with <b>CPR training manikins</b></li><li>• Provides:<ul style="list-style-type: none"><li>◦ Metronome for chest compression rate guidance</li><li>◦ Prompts for compression and ventilation cycles</li></ul></li><li>• Optional:<ul style="list-style-type: none"><li>◦ Feedback system (depth, rate, recoil)</li></ul></li></ul> <p><b>6. Display &amp; Feedback (Advanced Models)</b></p> <ul style="list-style-type: none"><li>• LCD display or indicator panel (optional)</li><li>• Real-time CPR feedback (advanced trainers)</li><li>• Visual cues for pad placement and rhythm detection</li></ul> <p><b>7. Power Supply</b></p> <ul style="list-style-type: none"><li>• Battery operated (replaceable/rechargeable)</li><li>• Optional AC adapter support</li></ul> <hr/> <p><b>8. Accessories</b></p> <ul style="list-style-type: none"><li>• AED trainer unit</li><li>• Reusable training pads with cables</li><li>• Remote control / app control</li><li>• Carry case</li><li>• User manual</li><li>• Optional:</li></ul>	
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		<ul style="list-style-type: none"> <li>○ CPR manikin (adult/child)</li> <li>○ Extra pads and batteries</li> </ul>	
6	<b>Hemodynamic monitoring simulation kit</b>	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• A <b>high-fidelity simulation system</b> designed for training in: <ul style="list-style-type: none"> <li>○ Hemodynamic monitoring</li> <li>○ Shock management</li> <li>○ Critical care decision-making</li> </ul> </li> <li>• Should simulate <b>real-time patient physiological responses</b> to interventions</li> </ul> <p><b>2. System Components</b></p> <p>The kit should include:</p> <p>a) Patient Simulator / Manikin (Preferred)</p> <ul style="list-style-type: none"> <li>• Full or partial body simulator with: <ul style="list-style-type: none"> <li>○ Cardiac and respiratory functions</li> <li>○ Palpable pulses</li> <li>○ Invasive line insertion capability</li> </ul> </li> </ul> <p>b) Monitor Simulator</p> <ul style="list-style-type: none"> <li>• Multiparameter monitor display including: <ul style="list-style-type: none"> <li>○ ECG</li> <li>○ SpO<sub>2</sub></li> <li>○ NIBP / IBP (arterial pressure)</li> <li>○ CVP (central venous pressure)</li> <li>○ Cardiac output</li> </ul> </li> </ul> <p><b>3. Hemodynamic Parameters Simulated</b></p> <ul style="list-style-type: none"> <li>• Heart rate and rhythm</li> <li>• Blood pressure (invasive &amp; non-invasive)</li> <li>• Central venous pressure (CVP)</li> <li>• Pulmonary artery pressure (PAP)</li> <li>• Pulmonary capillary wedge pressure (PCWP)</li> <li>• Cardiac output and stroke volume</li> <li>• Systemic vascular resistance (SVR)</li> </ul> <p>Simulators should allow <b>dynamic adjustment of parameters</b> to reflect disease states</p> <p><b>4. Clinical Scenario Simulation</b></p> <ul style="list-style-type: none"> <li>• Pre-programmed and customizable scenarios: <ul style="list-style-type: none"> <li>○ Hypovolemic shock</li> </ul> </li> </ul>	1

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		<ul style="list-style-type: none"> <li>○ Cardiogenic shock</li> <li>○ Septic shock</li> <li>○ Obstructive shock</li> <li>• Real-time response to:             <ul style="list-style-type: none"> <li>○ Fluid therapy</li> <li>○ Vasopressors/inotropes</li> <li>○ Mechanical ventilation</li> </ul> </li> </ul> <p>High-fidelity systems enable <b>interactive decision-making with real-time feedback</b></p> <hr/> <p><b>5. Invasive Monitoring Training</b></p> <ul style="list-style-type: none"> <li>• Support for:             <ul style="list-style-type: none"> <li>○ Arterial line insertion</li> <li>○ Central venous catheter (CVC) placement</li> <li>○ Pulmonary artery catheter (Swan-Ganz) simulation</li> </ul> </li> <li>• Display of pressure waveforms during catheter advancement</li> </ul> <hr/> <p><b>6. Software &amp; Interface</b></p> <ul style="list-style-type: none"> <li>• Computer-based control system with:             <ul style="list-style-type: none"> <li>○ Instructor interface</li> <li>○ Scenario programming</li> <li>○ Real-time parameter modification</li> </ul> </li> <li>• Display of:             <ul style="list-style-type: none"> <li>○ Trends, graphs, waveforms</li> <li>○ Lab values and clinical data</li> </ul> </li> </ul> <hr/> <p><b>7. Physiological Feedback</b></p> <ul style="list-style-type: none"> <li>• System should simulate:             <ul style="list-style-type: none"> <li>○ Changes in arterial waveform morphology</li> <li>○ Fluid responsiveness (PPV, SVV)</li> <li>○ Effects of drugs on hemodynamics</li> </ul> </li> </ul> <hr/> <p><b>8. Display &amp; Integration</b></p> <ul style="list-style-type: none"> <li>• Compatible with:             <ul style="list-style-type: none"> <li>○ ICU monitors</li> <li>○ Ventilator simulators (optional)</li> </ul> </li> <li>• Dual display (preferred):             <ul style="list-style-type: none"> <li>○ Patient monitor</li> </ul> </li> </ul>	
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		<ul style="list-style-type: none"> <li>○ Instructor control screen</li> </ul> <p><b>9. Accessories</b></p> <ul style="list-style-type: none"> <li>• Arterial and central line kits (training)</li> <li>• Tubing and pressure transducers</li> <li>• Software license</li> <li>• Scenario library</li> <li>• Carry case</li> </ul> <p><b>10. Power Supply</b></p> <ul style="list-style-type: none"> <li>• AC 220–240V, 50 Hz</li> <li>• Battery backup (optional for portability)</li> </ul>	
7.	<b>Tray sets/kits to perform advanced nursing procedures</b>	<b>Tray sets/kits to perform advanced nursing procedures</b>	1
8.	<b>8. Drugs, fluids, IV sets, emergency medication</b>	<b>9. Drugs, fluids, IV sets, emergency medication</b>	<u>1</u>

All equipment should comply with BIS/ISI standards

- Medical devices should follow WHO/Indian Public Health Standards (IPHS)/CE
- Equipment must be easy to clean, portable, and durable
- Calibration required annually for measuring devices.

Equipment/Instrument Warranty 3yrs

## II. COMMUNITY HEALTH NURSING & NUTRITION LABORATORY

S.no.	Description	Detailed specification	Quantity
1.	<b>Induction stove:</b>	<ul style="list-style-type: none"> <li>• Type: Portable induction cooktop</li> <li>• Power: 1800–2200 W</li> <li>• Voltage: 220–240 V AC</li> <li>• Temperature control: Digital (80°C–240°C)</li> <li>• Safety features: Auto shut-off, overheating protection</li> <li>• Surface: Ceramic glass, easy to clean</li> </ul>	1

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2.	<b>Eligible couple and child register:</b>	Format: Printed as per Government Health Records (RCH format) <ul style="list-style-type: none"><li>• Size: A3 or large ledger</li><li>• Binding: Hardbound</li><li>• Pages: Minimum 200 pages</li><li>• Columns: Family ID, age, parity, immunization, contraceptive use</li></ul>	1
3.	<b>Diary:</b>	<ul style="list-style-type: none"><li>• Type: Daily clinical recording diary</li><li>• Size: A4</li><li>• Binding: Hardbound</li><li>• Pages: 150–200</li><li>• Features: Date-wise entries, ruled</li></ul>	2
4.	<b>Steriliser:</b>	<ul style="list-style-type: none"><li>• Type: Electric sterilizer / Autoclave</li><li>• Capacity: 10–20 liters</li><li>• Temperature: Up to 121°C (autoclave)</li><li>• Pressure: 15 psi</li><li>• Material: Stainless steel chamber</li><li>• Safety: Pressure release valve</li></ul>	1
5.	<b>Infant weighing scale:</b>	<ul style="list-style-type: none"><li>• Capacity: 0–20 kg</li><li>• Accuracy: <math>\pm 10</math> g</li><li>• Type: Digital preferred</li><li>• Tray: Curved baby tray with safety edges</li></ul>	4
6.	<b>Salter scale:</b>	<ul style="list-style-type: none"><li>• Capacity: 0–25 kg</li><li>• Accuracy: <math>\pm 100</math> g</li><li>• Type: Hanging spring scale</li><li>• Material: Corrosion-resistant metal</li></ul>	1
7.	<b>Spring balance:</b>	<ul style="list-style-type: none"><li>• Capacity: 0–10 kg</li><li>• Accuracy: <math>\pm 50</math> g</li><li>• Body: Transparent casing for visibility</li></ul>	4
8.	<b>Weighing machine:</b>	<ul style="list-style-type: none"><li>• Capacity: 0–150 kg</li><li>• Accuracy: <math>\pm 100</math> g</li><li>• Type: Digital / Analog</li><li>• Platform: Non-slip</li></ul>	4
9.	<b>Sphygmomanometers - regular &amp; electronic:</b>	<b>Regular:</b> <ul style="list-style-type: none"><li>• Type: Mercury/Aneroid</li><li>• Range: 0–300 mmHg</li><li>• Cuff sizes: Adult &amp; pediatric</li><li>• Material: Latex-free</li></ul> <b>b) Electronic:</b> <ul style="list-style-type: none"><li>• Display: Digital LCD</li><li>• Memory: At least 60 readings</li><li>• Power: Battery operated</li></ul>	5

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10.	<b>Stethoscopes:</b>	<ul style="list-style-type: none"> <li>• Type: Acoustic dual-head</li> <li>• Material: Stainless steel chest piece</li> <li>• Tube: PVC, latex-free</li> <li>• Frequency response: 20–1000 Hz</li> </ul>	5
11.	<b>Dari/mats for health education purpose:</b>	<ul style="list-style-type: none"> <li>• Material: Cotton/plastic woven</li> <li>• Size: 6 × 4 ft (minimum)</li> <li>• Washable and foldable</li> </ul>	4
12.	<b>A.V. Aids on different topics in the form of posters:</b>	<ul style="list-style-type: none"> <li>• Size: A2 or A1</li> <li>• Material: Laminated charts</li> <li>• Topics: Immunization, nutrition, sanitation, maternal health</li> </ul>	4
13.	<b>Flip charts:</b>	<ul style="list-style-type: none"> <li>• Size: 24 × 36 inches</li> <li>• Stand: Metal/wooden easel</li> <li>• Sheets: Replaceable</li> </ul>	4
14.	<b>Flash cards:</b>	<ul style="list-style-type: none"> <li>• Size: A5</li> <li>• Material: Laminated cards</li> <li>• Content: Health messages, symptoms, procedures</li> </ul>	4
15.	<b>Community bag:</b>	<ul style="list-style-type: none"> <li>• Material: Waterproof canvas or rexine</li> <li>• Compartments: Minimum 3 (clean items, washing kit, testing kit)</li> <li>• Size: Medium (portable)</li> <li>• Features: Zipper closure, shoulder strap</li> </ul> <p>The bag should have separate compartments for clean articles, hand washing kit and urine testing kit. It should contain the following articles:</p>	12
16.	<b>Assessment articles: Thermometer:</b>	<ul style="list-style-type: none"> <li>• Type: Digital</li> <li>• Range: 32°C–42°C</li> <li>• Accuracy: ±0.1°C</li> </ul>	1
17.	<b>Tape measure:</b>	<ul style="list-style-type: none"> <li>• Length: 150 cm</li> <li>• Material: Flexible, non-stretchable</li> </ul>	1
18.	<b>Stethoscope:</b>	<p>Type: Acoustic, dual-head (diaphragm &amp; bell)</p> <p>Chest Piece: Stainless steel, non-corrosive, adult size diaphragm (~40–45 mm)</p> <p>Diaphragm: High-sensitivity, replaceable</p> <p>Tubing: 55–65 cm, flexible, kink-resistant, latex-free (single/double lumen)</p> <p>Binaurals: Stainless steel, angled (≈15°), adjustable spring tension</p> <p>Ear Tips: Soft, replaceable, noise-isolating (multiple sizes)</p> <p>Acoustic Range: ~20–1000 Hz, clear heart &amp; lung sound transmission</p> <p>Weight: Lightweight (≈150–200 g)</p> <p>Quality: ISI/CE certified, durable and easy to disinfect</p>	1

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19.	Forceps:	<ul style="list-style-type: none"><li>• Type: Dressing forceps</li><li>• Material: Stainless steel</li><li>• Length: 15–20 cm</li></ul>	1
20.	Hand washing articles: Soap dish with soap:	<ul style="list-style-type: none"><li>• Material: Plastic/steel</li><li>• Soap: Antibacterial</li></ul>	1
21.	Hand towel:	<ul style="list-style-type: none"><li>• Material: Cotton</li><li>• Size: Medium</li></ul>	1
22.	Nail brush:	<ul style="list-style-type: none"><li>• Material: Plastic with nylon bristles</li></ul>	1
23.	Water proof bag:	<ul style="list-style-type: none"><li>• Material: PVC</li><li>• Use: Storage of wet items</li></ul>	1
24.	Urine testing kit: Test tubes:	<ul style="list-style-type: none"><li>• Material: Borosilicate glass</li><li>• Size: 10–15 ml</li></ul>	2
25.	Test tube holder:	<ul style="list-style-type: none"><li>• Material: Wooden/metal/Plastic</li></ul>	1
26.	Spirit lamp:	<ul style="list-style-type: none"><li>• Fuel: Alcohol-based</li><li>• Material: Glass/metal</li></ul>	1
27.	Dropper:	<ul style="list-style-type: none"><li>• Material: Glass/plastic</li><li>• Volume: 1–3 ml</li></ul>	1
28.	Benedict's solution in a bottle:	<ul style="list-style-type: none"><li>• Storage: Amber glass bottle</li><li>• Volume: 100–250 ml</li></ul>	1
29.	Glass syringe:	<ul style="list-style-type: none"><li>• Capacity: 2–5 ml</li><li>• Sterilizable</li></ul>	1
30.	Dressing kit: Bag of sterilized dressing:	<ul style="list-style-type: none"><li>• Contents: Gauze, cotton, bandage</li><li>• Packaging: Autoclaved</li></ul>	1
31.	Antiseptic in a bottle:	<ul style="list-style-type: none"><li>• Type: Povidone iodine / Chlorhexidine</li><li>• Volume: 100 ml</li></ul>	1
32.	Artery forceps:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Length: 15–18 cm</li></ul>	1
33.	Dissecting forceps non- toothed:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	1
34.	Dissecting forceps toothed:	Material: Stainless steel	1
35.	Small bowls	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Capacity: 100–200 ml</li></ul>	2
36.	Small kidney tray:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Size: 6–8 inches</li></ul>	1
37.	Suture cutting scissors/dressing scissors:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Type: Straight/blunt</li></ul>	1

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38.	<b>Medicines:</b> <b>Labeled medicines for essential treatment of minor ailments</b>	<ul style="list-style-type: none"> <li>• Paracetamol tablets (500 mg)</li> <li>• ORS packets</li> <li>• Antiseptic cream</li> <li>• Antihistamines</li> <li>• Iron &amp; folic acid tablets</li> <li>• Zinc tablets</li> <li>• Topical antibiotic ointment</li> </ul> <b>Specifications:</b> <ul style="list-style-type: none"> <li>• Proper labeling</li> <li>• Within expiry date</li> <li>• Stored in sealed containers</li> </ul>	1 Each
<b>B. Nutrition Lab</b>			
1	<b>Gas stoves with cylinders/pipeline tubing:</b>	<ul style="list-style-type: none"> <li>• Type: 2–3 burner LPG/PNG compatible stove</li> <li>• Material: Stainless steel body with brass burners</li> <li>• Ignition: Manual/auto ignition</li> <li>• Safety Features:               <ul style="list-style-type: none"> <li>o Flame failure protection</li> <li>o ISI-marked regulator and rubber tubing (1.5–2 m)</li> </ul> </li> <li>• Usage: Diet preparation demonstrations</li> </ul>	6
2	<b>Gas lighters:</b>	<ul style="list-style-type: none"> <li>• Type: Spark ignition lighter</li> <li>• Material: Stainless steel/plastic</li> <li>• Length: 20–25 cm</li> <li>• Features: Heat-resistant, safe grip</li> </ul>	6
3	<b>Pressure cookers of different sizes - 1 &amp; 2 kg</b> <i>(3 each)</i>	<ul style="list-style-type: none"> <li>• Material: Stainless steel / hard anodized aluminum</li> <li>• Safety:               <ul style="list-style-type: none"> <li>o Pressure indicator</li> <li>o Safety valve</li> <li>o Gasket release system</li> </ul> </li> <li>• Lid: Inner/outer lid</li> </ul>	6
4	<b>Steel cooking vessels - big, medium &amp; small:</b> <i>(4 each)</i>	<ul style="list-style-type: none"> <li>• Material: Food-grade stainless steel (SS 304)</li> <li>• Sizes:               <ul style="list-style-type: none"> <li>o Small: 1 L</li> <li>o Medium: 2–3 L</li> <li>o Large: 5 L</li> </ul> </li> <li>• Base: Induction-compatible preferred</li> </ul>	12
5	<b>Cutlery set:</b>	<ul style="list-style-type: none"> <li>• Material: Stainless steel</li> <li>• Includes: Knives, forks, spoons</li> </ul>	1
6	<b>Ladles (wooden spoons/silicone spatulas):</b>	<ul style="list-style-type: none"> <li>• Material: Food-grade wood/silicone</li> <li>• Length: 25–35 cm</li> <li>• Heat-resistant and non-toxic</li> </ul>	12
7	<b>Juice squeezer:</b>	<ul style="list-style-type: none"> <li>• Type: Manual citrus juicer</li> <li>• Material: Plastic/stainless steel</li> <li>• Capacity: 200–500 ml</li> </ul>	1

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8	Water reservoir:	<ul style="list-style-type: none"><li>• Capacity: 20–50 L</li><li>• Material: Food-grade plastic</li><li>• Features: Tap outlet</li></ul>	1
9	Saucepan with handle - medium and small size: (3 each)	<ul style="list-style-type: none"><li>• Sizes: 1 L and 2 L</li><li>• Material: Stainless steel/aluminum</li><li>• Handle: Heat-resistant (bakelite)</li></ul>	6
10	Spoons: Serving spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	6
11	Tea spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	24
12	Table spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	12
13	Dessert spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	12
14	Soup spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	12
15	Rice serving spoons:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	4
16	Bowls (wati):	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Capacity: 100–250 ml</li></ul>	25
17	Soup bowls:	<ul style="list-style-type: none"><li>• Material: Ceramic/stainless steel</li><li>• Capacity: 250–400 ml</li></ul>	36
18	Glass bowls:	<ul style="list-style-type: none"><li>• Material: Heat-resistant glass</li><li>• Sizes: Multiple</li></ul>	24
19	Forks:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li></ul>	36
20	Sieve:	<ul style="list-style-type: none"><li>• Material: Stainless steel mesh</li><li>• Diameter: 15–25 cm</li></ul>	2
21	Tongs:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Length: 20–30 cm</li></ul>	6
22	Knives:	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Types: Chef knife, vegetable knife</li><li>• Handle: Ergonomic, anti-slip</li></ul>	6
23	Peeler:	<ul style="list-style-type: none"><li>• Material: Stainless steel blade</li><li>• Type: Y-shaped/straight</li></ul>	6
24	Vegetable cutters:	<ul style="list-style-type: none"><li>• Type: Multi-purpose manual slicer/chopper</li><li>• Blades: Stainless steel</li><li>• Safety: Finger guard</li></ul>	6
25	Vegetable cutting plate:	<ul style="list-style-type: none"><li>• Material: Food-grade plastic/wood</li><li>• Size: Approx. 30 × 20 cm</li><li>• Features: Non-slip base</li></ul>	6
26	Water filter/Aqua guard:	<ul style="list-style-type: none"><li>• Type: RO/UV system</li><li>• Capacity: 5–10 L storage</li><li>• Filtration: Multi-stage purification</li></ul>	1
27	Flask:	<ul style="list-style-type: none"><li>• Capacity: 500 ml–1 L</li><li>• Material: Stainless steel (double wall)</li><li>• Function: Hot/cold retention</li></ul>	2
28	Frying pans:	<ul style="list-style-type: none"><li>• Material: Non-stick coated aluminum</li><li>• Size: 20–28 cm</li><li>• Handle: Insulated</li></ul>	6
29	Tava:	<ul style="list-style-type: none"><li>• Material: Cast iron/non-stick</li><li>• Diameter: 25–30 cm</li><li>• Use: Chapatti, dosa preparation</li></ul>	6

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A large blue scribble on the left.  
A signature in blue ink.  
The name "Himani" written in blue ink.  
The initials "MK-2" written in blue ink.



30	Vessel holders (Chimta):	<ul style="list-style-type: none"><li>• Material: Stainless steel</li><li>• Length: 20–30 cm</li><li>• Grip: Heat-resistant</li></ul>	6
31	Mixer with accessories:	<ul style="list-style-type: none"><li>• Power: 500–750 W</li><li>• Jars: Minimum 3 (grinding, blending, chutney)</li><li>• Material: Stainless steel jars</li><li>• Safety: Overload protection</li></ul>	1
32	Glasses for drinking water (steel):	<ul style="list-style-type: none"><li>• Capacity: 250–300 ml</li><li>• Durable and hygienic</li></ul>	24
32	Glasses for drinking water (glass):	<ul style="list-style-type: none"><li>• Material: Toughened glass</li><li>• Capacity: 250 ml</li></ul>	24
34	Kitchen weighing scale:	<ul style="list-style-type: none"><li>• Capacity: 0–5 kg</li><li>• Accuracy: <math>\pm 1</math> g</li><li>• Type: Digital LCD display</li></ul>	1
35	Chapatti making plate & rolling pin:	<ul style="list-style-type: none"><li>• Plate (Chakla): Wooden/marble (25–30 cm diameter)</li><li>• Rolling pin (Belan): Wooden, smooth finish</li></ul>	6
36	Measuring scoops:	<ul style="list-style-type: none"><li>• Material: Plastic/stainless steel</li><li>• Sizes: Standard set (5 ml–100 ml)</li></ul>	2
37	Napkins:	<ul style="list-style-type: none"><li>• Material: Cotton/paper</li><li>• Features: Washable/disposable</li></ul>	24
38	Tea strainer:	<ul style="list-style-type: none"><li>• Material: Stainless steel mesh</li><li>• Handle: Heat-resistant</li></ul>	6
39	Egg beater:	<ul style="list-style-type: none"><li>• Type: Manual/electric</li><li>• Material: Stainless steel</li><li>• Features: Easy grip</li></ul>	6
40	Toaster:	Type: Pop-up toaster (2-slice preferred) Power: 700–900 W, 220–240 V AC Material: Heat-resistant outer body (plastic/stainless steel), stainless steel slots Slots: Wide slots suitable for bread slices Controls: Adjustable browning levels (variable temperature control) Functions: Auto pop-up, cancel/stop button, reheat option (preferred) Safety Features: Auto shut-off, cool-touch body, anti-slip base Crumb Tray: Removable for easy cleaning Indicator: Power indicator light Maintenance: Easy to clean and durable Certification: ISI marked	2

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41	<b>Microwave with appropriate cooking vessels:</b>	<ul style="list-style-type: none"><li>• Capacity: 20–30 L</li><li>• Power: 700–1200 W</li><li>• Type: Convection preferred</li><li>• Features:<ul style="list-style-type: none"><li>o Timer and temperature control</li><li>o Auto-cook menus</li></ul></li><li>• Accessories: Microwave-safe glass/food-grade plastic containers</li></ul>	1
42	<b>Dinner set (12 persons):</b>	<ul style="list-style-type: none"><li>• Material: Stainless steel/ceramic</li><li>• Includes:<ul style="list-style-type: none"><li>o Plates</li><li>o Bowls</li><li>o Glasses</li><li>o Spoons</li></ul></li></ul>	2
43	<b>Tea set (12 persons):</b>	<ul style="list-style-type: none"><li>• Material: Ceramic</li><li>• Includes:<ul style="list-style-type: none"><li>o Cups and saucers</li><li>o Teapot</li></ul></li></ul>	2
<p>All equipment should comply with <b>BIS/ISI standards</b></p> <ul style="list-style-type: none"><li>• <b>Medical devices should follow WHO/Indian Public Health Standards (IPHS)</b></li><li>• <b>Equipment must be easy to clean, portable, and durable</b></li><li>• <b>Calibration required annually for measuring devices</b></li><li>• <b>All materials must be:</b><ul style="list-style-type: none"><li>o Food-grade and non-toxic</li><li>o Rust-resistant and durable</li></ul></li><li>• <b>Stainless steel items should preferably be SS 304 grade</b></li><li>• <b>Electrical appliances must be ISI certified</b></li><li>• <b>Equipment should be:</b><ul style="list-style-type: none"><li>o Easy to clean</li><li>o Ergonomic for students</li></ul></li><li>• <b>Follow:</b><ul style="list-style-type: none"><li>o Food safety and hygiene standards (FSSAI guidelines)</li><li>o WHO recommendations for nutrition demonstration labs</li></ul></li></ul>			

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MIDWIFERY & CHILD HEALTH NURSING LABORATORY



	I. Midwifery	Technical Specification	Qty.
	<b>A. Models and Manikins (Mannequins)/Simulators</b>		
1	<b>Stages of development of embryo model</b>	<p><b>General Specifications for Model</b></p> <ul style="list-style-type: none"> <li>• <b>Material:</b> Durable, washable, non-toxic (PVC, fiberglass, silicone)</li> <li>• <b>Mounting:</b> Base stand or wall-mounted charts</li> <li>• <b>Labeling:</b> Clear, printed, preferably bilingual</li> <li>• <b>Finish:</b> Smooth, color-coded anatomical accuracy</li> <li>• <b>Size:</b> Enlarged (10x–50x magnification for clarity)</li> </ul> <p><b>Embryo Development Model –Specifications</b></p> <ol style="list-style-type: none"> <li>1. <b>Type:</b> Set of sequential models showing stages from fertilization to fetal stage</li> <li>2. <b>Stages Covered:</b> Fertilization, zygote, cleavage (2–8 cell), morula, blastocyst, implantation, embryonic disc, organogenesis, and fetus stages</li> </ol>	<b>2 sets each</b>
2	<b>Female bony pelvis</b>	<p><b>Female Bony Pelvis Model –Specifications</b></p> <ul style="list-style-type: none"> <li>• <b>Type:</b> Life-size female bony pelvis model for obstetrics teaching</li> <li>• <b>Material:</b> High-quality, durable, non-toxic PVC/fiber; unbreakable and washable</li> <li>• <b>Size:</b> Anatomically accurate, life-size</li> <li>• <b>Design Features:</b> <ul style="list-style-type: none"> <li>○ Complete pelvis including ilium, ischium, pubis, sacrum, and coccyx</li> <li>○ Clearly defined pelvic inlet, outlet, and cavity</li> <li>○ Prominent landmarks (ischial spines, sacral promontory, pubic symphysis)</li> <li>○ Smooth finish with realistic anatomical detailing</li> </ul> </li> <li>• <b>Mounting:</b> Fixed on sturdy base/stand or detachable for demonstration</li> </ul>	<b>4</b>
3	<b>Foetal Skull</b>	<p><b>Fetal Skull Model –Specifications</b></p> <ul style="list-style-type: none"> <li>• <b>Type:</b> Life-size fetal skull model for obstetrics and midwifery teaching</li> <li>• <b>Material:</b> High-quality, durable, non-toxic PVC/fiber; lightweight and unbreakable</li> <li>• <b>Size:</b> Anatomically accurate, life-size</li> </ul>	<b>2</b>

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		<ul style="list-style-type: none"> <li>• <b>Design Features:</b> <ul style="list-style-type: none"> <li>○ Clearly demarcated skull bones (frontal, parietal, occipital)</li> <li>○ Well-defined sutures (sagittal, coronal, lambdoid)</li> <li>○ Fontanelles (anterior &amp; posterior) distinctly visible</li> <li>○ Moulding facility (slightly flexible plates to demonstrate overlap during labor.</li> </ul> </li> <li>• <b>Mounting:</b> Detachable/handheld model suitable for demonstration</li> </ul>	
4	<b>Female dummy (Zoe Model)/ obstretical training manikin dummy with doll</b>	<b>Female Dummy (ZOE Model) / Obstetrical Training Manikin –</b> <ul style="list-style-type: none"> <li>• Life-size female obstetrical training manikin (ZOE model or equivalent) made of durable, non-toxic PVC/silicone with anatomically accurate pelvis and birth canal.</li> <li>• Should include interchangeable cervices for different stages of dilatation and effacement, and allow vaginal examination and normal/abnormal delivery demonstrations.</li> <li>• Supplied with a flexible fetal doll having movable head, limbs, and identifiable skull landmarks.</li> <li>• Mounted on a stable base, with accessories including cervix set, lubricant, instruction manual, and storage case.</li> </ul>	1
5	<b>Placenta</b>	<b>Placenta –</b> Life-size placenta model made of durable, non-toxic PVC/silicone with realistic anatomical detailing. Should clearly show maternal (cotyledons) and fetal surfaces, umbilical cord attachment, and membranes (amnion & chorion). Color-coded or labeled structures for easy identification and teaching demonstration.	1
	<b>B. Charts</b>		
1	<b>Breast Changes in Pregnancy</b>	<b>Breast Changes in Pregnancy Chart –Specifications</b> Printed educational wall chart illustrating stages of breast changes during pregnancy. High-resolution, multicolor images showing anatomical and physiological changes (areola, nipples, glandular tissue). Clear labeling with brief descriptions for teaching and demonstration purposes. Laminated/tear-resistant material with waterproof coating for durability. Standard large size (approx. A1/A2), suitable for wall mounting, reusable and easy to clean.	1
2	<b>Uterine changes in pregnancy showing height of uterus</b>	<b>Uterine Changes in Pregnancy (Height of Uterus) Chart – Specifications-</b>	1



		<p>Printed educational wall chart depicting progressive uterine growth with fundal height at different gestational weeks. High-resolution, multicolor illustrations showing uterus position in relation to anatomical landmarks (symphysis pubis, umbilicus, xiphisternum). Clear labeling with corresponding gestational age and brief explanatory notes. Laminated, tear-resistant, and waterproof material for long-term use. Standard large size (approx. A1/A2), suitable for wall mounting, reusable and easy to clean.</p>	
3	<b>EDD calculator chart/wheel</b>	<p>Circular pregnancy wheel/chart made of durable, non-toxic plastic/cardboard with smooth rotating discs. Designed to calculate Expected Date of Delivery (EDD) based on Last Menstrual Period (LMP). Clearly marked calendar scale with months, dates, and gestational weeks for easy reading. Compact, lightweight, and easy to use for quick clinical and teaching reference. Reusable, laminated/water-resistant, and supplied with instruction guide.</p>	1
4	<b>Stages of Labor</b>		4
4.1	First stage	<p><b>Chart Layout</b></p> <ul style="list-style-type: none"> <li>• Chart Size: A3 or full chart paper</li> <li>• Heading (Top Center): <i>First Stage of Labour</i></li> <li>• Left Side: Text content</li> <li>• Right Side: Diagram (cervical dilatation/partograph)</li> </ul> <p><b>Content</b></p> <ol style="list-style-type: none"> <li>1. Definition (1–2 lines)</li> <li>2. Phases (Latent, Active, Transition)</li> <li>3. Duration</li> <li>4. Signs &amp; Changes</li> <li>5. Nursing Management (4 points)</li> </ol>	4
4.2	Second stage	<p><b>Chart Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Second Stage of Labour</i></li> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (cardinal movements)</li> </ul> <p><b>Content</b></p> <ol style="list-style-type: none"> <li>1. Definition</li> <li>2. Duration</li> <li>3. Signs (bearing down, crowning)</li> </ol>	4

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		<p>4. Cardinal Movements (flow diagram)</p> <p>5. Nursing Management</p>	
4.3	Third stage	<p><b>Chart Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Third Stage of Labour</i></li> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (placenta separation)</li> </ul> <p><b>Content</b></p> <ol style="list-style-type: none"> <li>1. Definition</li> <li>2. Duration</li> <li>3. Signs of Placental Separation</li> <li>4. Complications</li> <li>5. Nursing Management</li> </ol>	20
5.	<b>Breech Presentation</b>		
5.1	Complete Breech	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Complete Breech Presentation</i></li> <li>• <b>Left:</b> Content</li> <li>• <b>Right:</b> Diagram (flexed lsegs)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Buttocks present, hips &amp; knees flexed</li> <li>• <b>Features:</b> Baby in sitting position</li> <li>• <b>Diagnosis:</b> Clinical + USG</li> <li>• <b>Risks:</b> Cord prolapse</li> <li>• <b>Management:</b> Vaginal/CS depending on case</li> </ul>	1
5.2	Incomplete Breech	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Incomplete Breech Presentation</i></li> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (one/both legs down)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Feet/knees present first (buttocks not fully)</li> <li>• <b>Types:</b> Footling, Kneeling</li> <li>• <b>Features:</b> Legs extended, common in prematurity</li> <li>• <b>Risks:</b> Cord prolapse, fetal distress</li> <li>• <b>Management:</b> Cesarean section preferred</li> </ul>	2
5.3	Shoulder presentation	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Shoulder Presentation</i></li> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (transverse lie with shoulder)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Fetus lies <b>transversely</b>, shoulder presents first</li> </ul>	1

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		<ul style="list-style-type: none"> <li>• <b>Causes:</b> Multiparity, placenta previa, prematurity</li> <li>• <b>Signs:</b> Abdomen wide, no head in pelvis</li> <li>• <b>Risks:</b> Cord prolapse, obstructed labour</li> <li>• <b>Management:</b> Cesarean section</li> </ul>	
5.4	Foot Presentation	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Footling Breech Presentation</i></li> <li>• <b>Left:</b> Content</li> <li>• <b>Right:</b> Diagram (one/both feet presenting)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> One or both feet present first</li> <li>• <b>Types:</b> Single footling, Double footling</li> <li>• <b>Features:</b> Rare but risky</li> <li>• <b>Risks:</b> Cord prolapse (high risk)</li> <li>• <b>Management:</b> Cesarean section preferred</li> </ul>	1
6.	Birth chart	<p><b>Chart Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Chart Size:</b> A3 / chart paper</li> <li>• <b>Heading (Top Center):</b> <i>Birth / Normal Vaginal Delivery</i></li> <li>• <b>Left Side:</b> Key points</li> <li>• <b>Right Side:</b> Diagram (delivery process)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Delivery of baby through vagina</li> <li>• <b>Stages:</b> 1st (dilatation), 2nd (expulsion), 3rd (placenta)</li> <li>• <b>Signs of Birth:</b> Crowning, strong contractions</li> <li>• <b>Process:</b> Descent → Flexion → Rotation → Birth</li> <li>• <b>Care:</b> Aseptic technique, support perineum, monitor mother &amp; baby</li> </ul>	1
7	Face presentation	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Face Presentation</i></li> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (hyperextended head showing face)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Head <b>fully extended</b>, face presents first</li> <li>• <b>Types:</b> Mentum anterior, Mentum posterior</li> <li>• <b>Causes:</b> Pelvic contraction, multiparity</li> <li>• <b>Signs:</b> Facial features felt on vaginal exam</li> <li>• <b>Management:</b> Vaginal (if mentum anterior) / Cesarean (if posterior)</li> </ul>	1
8	Brow presentation	<p><b>Layout</b></p> <ul style="list-style-type: none"> <li>• <b>Heading:</b> <i>Brow Presentation</i></li> </ul>	1

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		<ul style="list-style-type: none"> <li>• <b>Left:</b> Points</li> <li>• <b>Right:</b> Diagram (partially extended head showing forehead)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>• <b>Definition:</b> Head <b>partially extended</b>, brow (forehead) presents</li> <li>• <b>Cause:</b> Cephalopelvic disproportion, prematurity</li> <li>• <b>Signs:</b> Forehead felt on vaginal exam</li> <li>• <b>Risk:</b> Obstructed labour</li> <li>• <b>Management:</b> Usually cesarean section</li> </ul>	
9	<b>Twin pregnancy</b>	<p><b>Layout:</b> Heading top, left points, right diagram</p> <p><b>Points:</b></p> <ul style="list-style-type: none"> <li>• Definition: Two fetuses in uterus</li> <li>• Types: Monozygotic, Dizygotic</li> <li>• Signs: Large abdomen, ↑ FHR (2)</li> <li>• Risks: Preterm, anemia</li> <li>• Management: Regular ANC, USG</li> </ul>	1
10	<b>Placenta praevia - different degrees</b>	<p><b>Layout:</b> Left points, right diagram (types)</p> <p><b>Points:</b></p> <ul style="list-style-type: none"> <li>• Definition: Placenta in lower uterine segment</li> <li>• Degrees: I, II, III, IV</li> <li>• Sign: Painless bleeding</li> <li>• Risk: Hemorrhage</li> <li>• Management: Bed rest / Cesarean</li> </ul>	11
11	<b>Caput Succedaneum, Cephalhaematoma</b>	<p><b>Layout:</b> Divide chart into two halves</p> <p><b>Points:</b></p> <ul style="list-style-type: none"> <li>• <b>Caput:</b> Edema, crosses sutures, present at birth</li> <li>• <b>Cephalhaematoma:</b> Blood collection, does not cross sutures</li> <li>• Cause: Birth trauma</li> <li>• Management: Usually self-resolving</li> </ul>	1
12	<b>Congenital malformations of new born</b>	<p><b>Points:</b></p> <ul style="list-style-type: none"> <li>• Definition: Defects present at birth</li> <li>• Causes: Genetic, infections, drugs</li> <li>• Types: Structural, functional</li> <li>• Examples: Cleft lip, spina bifida</li> <li>• Prevention: ANC, folic acid</li> </ul>	1
12.1	<b>Cleft Lip Palate</b>	<p><b>Points:</b></p>	1



		<ul style="list-style-type: none"> <li>• Definition: Gap in lip/palate</li> <li>• Types: Unilateral, bilateral</li> <li>• Problems: Feeding, speech</li> <li>• Management: Surgery</li> </ul>	
12.2	<b>Spina Bifida</b>	<b>Points:</b> <ul style="list-style-type: none"> <li>• Definition: Neural tube defect</li> <li>• Types: Occulta, meningocele, myelomeningocele</li> <li>• Risk: Paralysis</li> <li>• Prevention: Folic acid</li> <li>• Management: Surgery</li> </ul>	1
12.3	<b>Hydrocephalus</b>	<b>Points:</b> <ul style="list-style-type: none"> <li>• Definition: Excess CSF in brain</li> <li>• Signs: Enlarged head</li> <li>• Causes: Obstruction</li> <li>• Risk: Brain damage</li> <li>• Management: VP shunt</li> </ul>	1
12.4	<b>Anencephalus</b>	<b>Points:</b> <ul style="list-style-type: none"> <li>• Definition: Absence of major brain parts</li> <li>• Cause: Neural tube defect</li> <li>• Signs: No skull vault</li> <li>• Outcome: Fatal condition</li> <li>• Prevention: Folic acid</li> </ul>	1
	<b>C. Equipment/Instruments</b>		
<b>1</b>	<b>Vaginal Speculum</b>		
<b>1.1</b>	<b>Sims</b>	Sims	2 Different sizes
<b>1.2</b>	<b>Cusco's</b>	Cusco,s	2 Different sizes
<b>2</b>	<b>Cervical Dilators all sizes</b>	Cervical Dilators all sizes	<b>One Set</b>
<b>3</b>	<b>Anterior Vaginal wall Retractor</b>	Anterior Vaginal wall Retractor	2
<b>4</b>	<b>Uterine Vulsellum</b>	Uterine Vulsellum	2
<b>5</b>	<b>Sponge Holding Forcep</b>	Sponge Holding Forcep	2
<b>6</b>	<b>Ovum Forceps</b>	Ovum Forceps	1
<b>7</b>	<b>Uterine Flushing Curette</b>	Uterine Flushing Curette	1
<b>8</b>	<b>Uterine Sound</b>	Uterine Sound	1
<b>9</b>	<b>Mucus Sucker</b>	Mucus Sucker	6
<b>10</b>	<b>Pelvimeter</b>	Pelvimeter	1

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11	Foetoscope	Foetoscope	2
12	Midwifery Kit for Home Delivery	Midwifery Kit for Home Delivery	4
12.1	Bowls medium and small	Bowls medium and small	2 each
12.2	Kidney tray medium and small	Kidney tray medium and small	2 each
12.3	Enema can with tubing	Enema can with tubing	1
12.4	Foetoscope	Foetoscope	1
13	Artery Forceps	Artery Forceps	2
14	Thumb Forceps	Toothed- No Toothed	1 each
15	Cord cutting blade	Cord cutting blade	1
16	Cord Ties	Cord Ties	1
17	Mucus sucker	Mucus sucker	1
18	Cotton swabs	Cotton swabs	1
19	Mackintosh	Mackintosh	2
20	Gloves ( surgical)	Gloves (Surgical) 6 to 7 no.	2 Box each
21	Mask	Mask surgical	1 box
22	Apron	Apron ( water proof nursing apron )	2
23	Rubber Catheters	Rubber Catheters	1
24	Spring balance color coated	Spring balance color coated	1
25	Shaving set	Shaving set	2
26	Spirit	Spirit	1 liter
27	Soap with dish	Soap with dish	1
28	Hand towels	Hand towels	1
29	Measure tape	Measure tape	1

SR NO.	DESCRIPTION	Technical Specification	Qty
<b>I. NURSING FOUNDATION &amp; MEDICAL SURGICAL NURSING LABORATORY</b>			
	<b>A. Manikins/Simulators and Equipment's</b>		
1	Manikins/Simulators for demonstrating nursing procedures		

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.1	Adult male	<p><b>General Features</b></p> <ul style="list-style-type: none"> <li>• Full-body adult male anatomy (life-size ~165–175 cm)</li> <li>• Weight: 12–25 kg (varies by model)</li> <li>• Material: PVC / silicone / thermoplastic elastomer</li> <li>• Fully articulated joints (head, jaw, shoulders, elbows, hips, knees, ankles)</li> <li>• Realistic skin texture and anatomical landmarks</li> </ul> <p><b>Airway &amp; Respiratory Skills</b></p> <ul style="list-style-type: none"> <li>• Oral &amp; nasal airway insertion</li> <li>• Endotracheal intubation</li> <li>• Tracheostomy care</li> <li>• Oxygen administration</li> <li>• Suctioning (oral/tracheal)</li> </ul>	
.2	child	<p><b>General Features</b></p> <ul style="list-style-type: none"> <li>• Age simulation: newborn / infant / 1–5 years child</li> <li>• Life-size pediatric body (approx. 50–110 cm depending on model)</li> <li>• Weight: 3–12 kg</li> <li>• Material: soft PVC / silicone (realistic pediatric skin)</li> <li>• Anatomically correct child features (head, airway, genitalia)</li> <li>• Fully flexible joints for positioning</li> </ul> <p><b>Airway &amp; Respiratory Training</b></p> <ul style="list-style-type: none"> <li>• Oral &amp; nasal airway insertion</li> <li>• Endotracheal intubation (ET tube / LMA)</li> <li>• Bag-valve-mask (BVM) ventilation</li> <li>• Oxygen administration</li> <li>• Chest rise simulation during breathing</li> </ul>	2
1.3	New Born	<p><b>General Features</b></p> <ul style="list-style-type: none"> <li>• Age group: <b>0–28 days (newborn)</b></li> <li>• Length: ~45–55 cm (life-size neonate)</li> <li>• Weight: ~2–3.5 kg (realistic newborn weight)</li> <li>• Material: soft silicone/PVC (skin-like feel)</li> <li>• Flexible joints with low muscle tone (like real newborn)</li> <li>• Anatomically correct features (fontanelle, sutures, genitalia)</li> </ul> <p><b>Airway &amp; Resuscitation Skills</b></p> <ul style="list-style-type: none"> <li>• Bag &amp; mask ventilation (BVM)</li> <li>• Airway positioning (head tilt/chin lift)</li> <li>• Endotracheal intubation (advanced models)</li> <li>• Chest rise with ventilation</li> <li>• Neonatal CPR (compressions with feedback in advanced models)</li> </ul>	2
1.4	Adult female	<p><b>General Features</b></p> <ul style="list-style-type: none"> <li>• Full-body <b>adult female anatomy (life-size ~165–170 cm)</b></li> <li>• Weight: ~12–25 kg</li> </ul>	3

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	<p><b>Dimensions</b></p> <ul style="list-style-type: none"><li>• Overall size:<ul style="list-style-type: none"><li>○ Length: <b>2000–2100 mm</b></li><li>○ Width: <b>900–1000 mm</b></li><li>○ Height: <b>500–700 mm</b> (from floor to mattress platform)</li></ul></li><li>• Mattress area: Suitable for standard hospital mattress (approx. 1900 × 900 mm)</li></ul> <p><b>Frame &amp; Structure</b></p> <ul style="list-style-type: none"><li>• Material: Mild steel (MS) tubular frame / CRCA steel</li><li>• Coating: Epoxy powder-coated (rust-proof, anti-corrosive)</li><li>• Load capacity: Minimum <b>120–180 kg</b></li><li>• Strong welded construction with smooth edges</li></ul> <p><b>Bed Top (Platform)</b></p> <ul style="list-style-type: none"><li>• Type:<ul style="list-style-type: none"><li>○ Perforated CRCA sheet / metal slats</li></ul></li><li>• Features:<ul style="list-style-type: none"><li>○ Ventilation holes</li><li>○ Easy cleaning and drainage</li><li>○ Uniform weight distribution</li></ul></li></ul> <p><b>Backrest / Positioning</b></p> <p>Plain Bed</p> <ul style="list-style-type: none"><li>• Fixed flat surface</li></ul> <p>Semi-Fowler Bed</p> <ul style="list-style-type: none"><li>• Adjustable backrest (0–45° approx.)</li></ul> <p>Fowler Bed</p> <ul style="list-style-type: none"><li>• Adjustable:<ul style="list-style-type: none"><li>○ Backrest (0–75°)</li><li>○ Knee rest (optional)</li></ul></li></ul>	
Patient cots- Child	<p><b>General Description</b></p> <ul style="list-style-type: none"><li>• Type: Pediatric patient cot (semi-fowler )</li><li>• Designed specifically for <b>infants and children safety</b></li></ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"><li>• Overall size (approx.):</li></ul>	2

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- Length: **1200–1500 mm**
- Width: **600–750 mm**
- Height: **600–900 mm** (including side rails)
- Mattress size: Suitable pediatric mattress (approx. 1200 × 600 mm)

**Frame & Structure**

- Material: Mild steel tubular frame / CRCA steel
- Coating: Epoxy powder-coated (anti-rust, anti-corrosion)
- Load capacity: Minimum **50–100 kg**
- Smooth rounded edges for child safety

**Bed Platform**

- Type: Perforated CRCA sheet / slotted metal base
- Features:

**Side Rails (Safety – Very Important)**

- Full-length **high side rails on all sides**
- Material: MS / stainless steel / transparent acrylic (optional)
- Features:
  - Collapsible / drop-down type
  - Secure locking mechanism
  - Child-safe spacing (to prevent entrapment)

**Backrest / Positioning**

**Semi-Fowler Pediatric Bed**

- Adjustable backrest (0–45° approx.)
- Adjustable:
  - Backrest (0–60°)
  - Knee rest (optional)

2.2	Bed side locker	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• Type: Bedside locker / bedside cabinet</li> <li>• Usage: Storage of patient belongings, medicines, and utilities</li> <li>• Placement: Alongside hospital beds</li> </ul> <p><b>Dimensions (Approx.)</b></p> <ul style="list-style-type: none"> <li>• Height: <b>700–800 mm</b></li> <li>• Width: <b>400–500 mm</b></li> <li>• Depth: <b>400–450 mm</b></li> </ul>	8
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### Structure & Material

- Frame: Mild steel (MS) / CRCA steel sheet
- Thickness: 0.8–1.2 mm (approx.)
- Construction: Welded, sturdy, and stable
- Finish: Epoxy powder-coated (rust-proof, anti-corrosive)

### Top Surface

- Material:
  - MS sheet / stainless steel / ABS molded top

### Storage Configuration

Standard Design:

- **Top drawer**
  - With handle
  - Smooth sliding mechanism
- **Lower cabinet**
  - Single door with shelf inside
  - Adequate storage space

### Door & Locking

- Hinged door with magnetic catch / lock provision
- Smooth opening and closing
- Optional: Key lock system

### Handles & Fittings

- Material: ABS / stainless steel
- Ergonomic design
- Rust-resistant

### Mobility

- Mounted on **4 legs with PVC stumps**  
**OR**
- **4 castors (optional)** for mobility
  - At least 2 castors with brakes (if mobile type)

### Hygiene & Maintenance

- Seamless construction to prevent dirt accumulation
- Easy to disinfect
- Scratch-resistant coating

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		<p><b>Load Capacity</b></p> <ul style="list-style-type: none"> <li>• Top surface: Minimum 15–25 kg</li> <li>• Internal shelf: Minimum 10–15 kg</li> </ul> <p><b>Optional Features (Desirable)</b></p> <ul style="list-style-type: none"> <li>• Stainless steel top</li> <li>• Towel holder</li> <li>• Bottle holder / utility rack</li> <li>• Overbed table attachment (advanced models)</li> <li>• Color-coded panels (for wards)</li> </ul> <p><b>Compliance / Standards</b></p> <ul style="list-style-type: none"> <li>• Should comply with: <ul style="list-style-type: none"> <li>○ NABH (India) guidelines</li> <li>○ NMC/INC nursing infrastructure norms</li> <li>○ ISO standards (preferred for hospital furniture)</li> </ul> </li> </ul>	
<b>3</b>	<b>Trays of different sizes (plastic)</b>	<b>Trays of different sizes (plastic)</b>	
3.1	24" x 16"	24" x 16"	<b>6</b>
3.2	14" x 10"	14" x 10"	<b>6</b>
3.3	11" x 9"	11" x 9"	<b>6</b>
3.4	8" x 5"	8" x 5"	<b>6</b>
<b>4</b>	<b>Trays with cover (stainless steel)</b>	<b>Trays with cover (stainless steel)</b>	
4.1	24" x 16"	24" x 16"	<b>6</b>
4.2	14" x 10"	14" x 10"	<b>6</b>
4.3	11" x 9"	11" x 9"	<b>6</b>
4.4	8" x 5"	8" x 5"	<b>6</b>
<b>5</b>	<b>Bowls (stainless steel)</b>	<b>Bowls (stainless steel)</b>	
5.1	10" diameter	10" diameter	<b>12</b>
5.2	6" diameter	6" diameter	<b>12</b>
5.3	2-4" diameter	2-4" diameter	<b>12</b>
<b>6</b>	<b>Enema Can (enamel/plastic)</b>	<b>Enema Can (enamel/plastic)</b>	
6	½lt. capacity	½lt. capacity	<b>4</b>
6.2	1 lt. capacity	1 lt. capacity	<b>4</b>
<b>7</b>	<b>Kidney trays of assorted sizes ( stainless steel)</b>	<b>Kidney trays of assorted sizes (stainless steel )</b>	
7.1	Large	Large	<b>5</b>
7.2	Medium	Medium	<b>5</b>
7.3	Small	Small	<b>5</b>



8	<b>Measuring jugs (stainless steel)</b>	<b>Measuring jugs (stainless steel)</b>	
8.1	1000 ml.	1000 ml.	5
8.2	500 ml.	500 ml.	5
8.3	250 ml	250 ml	5
9	<b>Basins (stainless steel)</b>	<b>Basins (stainless steel)</b>	
9.1	Big size	Big size	8
9.2	Medium size	Medium size	8
10	<b>Catheter tray with cover (stainless steel)</b>	<p>General Description</p> <ul style="list-style-type: none"> <li>Type: <b>Stainless steel catheter tray with cover</b></li> <li>Usage: Holding and organizing catheters, sterile instruments, and accessories during procedures</li> <li>Placement: Nursing stations, procedure rooms, or wards</li> </ul> <p>Material</p> <ul style="list-style-type: none"> <li>Body: <b>High-quality stainless steel (SS304 or SS316)</b></li> <li>Finish: <b>Mirror polished / matt finish</b></li> <li>Non-toxic, corrosion-resistant, and rust-proof</li> <li>Smooth, seamless edges to prevent injuries</li> </ul> <p>Tray Dimensions</p> <ul style="list-style-type: none"> <li>Length: <b>250–300 mm</b></li> <li>Width: <b>150–200 mm</b></li> <li>Depth: <b>20–40 mm</b> (tray pan depth)</li> <li>Cover height: Adequate to fully enclose tray contents</li> </ul> <p>Tray Features</p> <ul style="list-style-type: none"> <li><b>Cover:</b> Stainless steel, detachable or hinged</li> <li><b>Ventilation holes</b> (optional) for sterilized instruments</li> <li>Rounded edges and corners for safety</li> <li>Smooth interior for easy cleaning</li> </ul> <p>Accessories &amp; Compartments</p> <ul style="list-style-type: none"> <li>Optional dividers for different catheter sizes</li> <li>Can hold: <ul style="list-style-type: none"> <li>Foley catheters</li> <li>Intermittent catheters</li> <li>Lubricant packets</li> <li>Syringes</li> </ul> </li> <li>Single-piece tray or multi-compartment tray</li> </ul>	4

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**Knife tray with cover  
(stainless steel)**

**General Description**

- **Type: Stainless steel knife tray with cover**
- **Usage:** Holding and organizing surgical knives, scalpels, and other sharp instruments during procedures
- **Placement:** Nursing stations, procedure rooms, operation theaters, or skill labs

**Material**

- **Body: High-quality stainless steel (SS304 or SS316)**
- **Finish: Mirror-polished or satin/matt finish**
- Non-toxic, corrosion-resistant, and rust-proof
- Seamless edges to prevent cuts and injuries

**Tray Dimensions**

- **Length: 250–300 mm**
- **Width: 150–200 mm**
- **Depth: 25–40 mm** (tray pan depth)
- **Cover height:** Sufficient to fully enclose knife handles and instruments

**Tray Features**

- **Cover:** Stainless steel, detachable or hinged
- Rounded edges and corners for safety
- Smooth interior for easy cleaning and sterilization
- Optional perforation for autoclaving / sterilization efficiency

**Accessories & Compartments**

- Optional dividers or slots for individual knives/scalpels
- Can hold:
  - Surgical knives / scalpels
  - Forceps / small instruments
  - Sterile packs
- Stackable trays (optional)

**Compliance / Standards**

- Stainless steel must comply with **ISO 9001 / 304 / 316** standards
- Suitable for hospital and nursing college use
- NABH and INC guidelines for sterilized instrument storage

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12

**Feeding cups**

**General Description**

- **Type: Patient feeding cups**
- Usage: Administering fluids, nutrition, or medications to patients (adults, children, or infants)
- Placement: Wards, nursing stations, skill labs, or home care

**Material**

- **Food-grade plastic (PP / Polypropylene / Polycarbonate) or stainless steel (SS304)**
- Non-toxic, BPA-free, and safe for patient use
- Durable, corrosion-resistant (if stainless steel)
- Smooth, seamless edges to prevent injury

**Capacity / Size**

- **Adult:** 150–250 ml
- **Child:** 50–150 ml
- **Infant:** 30–60 ml
- Graduated markings (ml) for accurate measurement
- Optional lids for hygiene

13

**Douche can**

**General Description**

- **Type: Douche Can / Vaginal Irrigation Canister**

**Material**

- **High-quality stainless steel (SS304 or SS316) or medical-grade BPA-free plastic (PP / Polycarbonate)**

**Capacity / Size**

- **Standard Volume: 1000–1500 ml**
- Graduated markings (ml) for precise measurement
- **Optional: Multiple size variants (500 ml, 1000 ml, 1500 ml)**

**Design Features**

- **Body:** Cylindrical / conical shape
- **Nozzle / Tube:** Flexible, detachable, smooth-tip for patient safety
- **Lid / Cover:** Detachable or screw-on, tight-fitting to prevent spillage
- **Hook / Handle:** For wall mounting or holding during procedure

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14

**Sputum mugs ( Plastic)**

**General Description**

- **Type: Patient Sputum Mug / Container**
- Usage: Collection of sputum for diagnostic testing or patient care
- Placement: Wards, ICUs, respiratory units, and skill labs

**Material**

- **Food-grade / medical-grade plastic (PP / Polypropylene / Polycarbonate)**
- Transparent or translucent for easy content visibility
- Non-toxic, BPA-free, and safe for patients
- Smooth, seamless edges to prevent injuries
- Optional: Stainless steel (SS304) for durable, reusable models

**Capacity / Size**

- Typical volume: **200–500 ml**
- Graduated markings for volume measurement (ml)
- Lid or snap-on cover to prevent spillage and contamination

**Optional Features**

- Color-coded lids for ward management
- Graduated markings in ml and oz
- Handles or grip areas for easy use by elderly/disabled patients
- Disposable or single-patient use option for infection control

**Compliance / Standards**

- Food-grade / medical-grade certification
- ISO / BIS standards for patient safety
- NABH and INC guidelines for infection control and patient

15

**Bed pans**

**General Description**

- **Type: Patient bed pan**
- Usage: Collection of urine and feces from bedridden patients
- Placement: Wards, ICUs, nursing stations, and skill labs

**Material**

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	<ul style="list-style-type: none"><li>• <b>High-quality, medical-grade plastic (PP / Polypropylene / Polycarbonate)</b></li><li>• <b>Stainless steel (SS304)</b> option for reusable, durable pans</li><li>• Non-toxic, corrosion-resistant, rust-proof (for SS)</li><li>• Smooth, seamless edges to prevent injuries</li></ul> <p>Dimensions</p> <ul style="list-style-type: none"><li>• Adult bed pan:<ul style="list-style-type: none"><li>○ Length: <b>360–400 mm</b></li><li>○ Width: <b>180–220 mm</b></li><li>○ Depth: <b>50–70 mm</b></li></ul></li><li>• Pediatric / child bed pan (optional): smaller, proportional dimensions</li><li>• Designed to fit under bedridden patients comfortably</li></ul> <p>Optional Features</p> <ul style="list-style-type: none"><li>• Color-coded (for ward management or infection control)</li><li>• Lid / cover (optional, for odor and hygiene control)</li><li>• Stackable design for efficient storage</li></ul> <p>Compliance / Standards</p> <ul style="list-style-type: none"><li>• Material should comply with <b>ISO / BIS standards</b> for medical devices</li><li>• Food-grade / medical-grade certification (for plastic)</li><li>• NABH and INC guidelines for patient safety and infection control</li></ul>		
16	Urinals - Male	<p>General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Male urinal / bedside urinal</b></li></ul> <p>Material</p> <ul style="list-style-type: none"><li>• <b>High-quality, medical-grade plastic (PP / Polypropylene / Polycarbonate)</b></li><li>• <b>Stainless steel (SS304)</b> option for durable, reusable urinals</li><li>• Non-toxic, corrosion-resistant, and rust-proof</li><li>• Smooth, seamless edges to prevent injury</li></ul> <p>Capacity / Size</p> <ul style="list-style-type: none"><li>• Typical volume: <b>800–1000 ml</b></li><li>• Graduated markings for urine measurement (ml)</li><li>• Designed to accommodate adult male anatomy</li></ul>	6

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		<ul style="list-style-type: none"> <li>Optional: Pediatric urinals (smaller size for children)</li> <li>Resistant to chemical disinfectants</li> <li>Reusable or disposable options</li> <li>Color-coded for ward management or infection control</li> <li>Handles for elderly or disabled patients</li> </ul> <p>8. Compliance / Standards</p> <ul style="list-style-type: none"> <li>Material should comply with <b>ISO / BIS standards</b> for medical devices</li> <li>Food-grade / medical-grade certification (for plastic)</li> <li>NABH and INC guidelines for patient safety and infection control</li> </ul>	
<b>17</b>	<b>Funnel ( Glass)</b>	<b>Funnel ( Glass)</b>	
17.1	4" diameter	4" diameter	<b>6</b>
17.2	2" diameter	2" diameter	<b>6</b>
<b>18</b>	<b>Jars with covers (Glass)</b>	<b>Jars with covers ( Glass)</b>	
18.1	12" x 8"	12" x 8"	<b>2</b>
18.2	6" x 4"	6" x 4"	<b>2</b>
<b>19</b>	<b>Dressing drums(SS)</b>	<b>Dressing drums(SS)</b>	
19.1	8" x 4"	8" x 4"	<b>2</b>
19.2	12" x 9"	12" x 9"	<b>2</b>
<b>20</b>	<b>Tub for sitz bath</b>	<b>Tub for sitz bath</b>	<b>1</b>
20.1	<b>Sauce pan with lid</b>	<b>Sauce pan with lid</b>	
20.2	1 Lit capacity	1 Lit capacity	<b>2</b>
20.3	2 Lit capacity	2 Lit capacity	<b>2</b>
<b>21</b>	<b>Big vessel with lid - Indolium (for heating water)</b>	<b>Big vessel with lid - Indolium (for heating water)</b>	
21.1	10 lt. capacity	10 lt. capacity	<b>1</b>
21.2	Kettle		
21.3	<b>Kettle-1 lit.</b>	<b>Kettle-1 lit</b>	<b>1</b>
21.4	<b>Kettle- 2 lt. capacity</b>	<b>Kettle- 2 lt. capacity</b>	<b>1</b>
<b>22</b>	<b>Color coded waste bins with lids ( all color)</b>	<b>Color coded waste bins with lids ( all color)</b>	<b>1 each</b>
<b>23</b>	<b>Trolleys with upper and lower shelves</b>	<p>General Description</p> <ul style="list-style-type: none"> <li>Type: <b>Hospital trolley with two shelves (upper and lower)</b></li> <li>Usage: Transporting medical instruments, medicines, or equipment within wards, operation theatres, or nursing skill labs</li> <li>Placement: Wards, ICUs, OT, and nursing stations</li> </ul>	<b>4</b>

### Material

- Frame: **Mild steel (MS) tubular / CRCA steel**
- Shelves: Stainless steel (SS304) or epoxy powder-coated MS sheet
- Coating: Epoxy powder-coated (rust-proof, corrosion-resistant)
- Smooth edges and corners for safety
- Load capacity: Minimum **50–100 kg** evenly distributed

### Dimensions

- Length: **800–1000 mm**
- Width: **400–600 mm**
- Height: **800–900 mm**
- Shelf spacing: **Minimum 300–400 mm** between upper and lower shelves

### Shelves

- **Upper and Lower Shelves:** Flat, sturdy, and easy to clean
- Raised edges (10–20 mm) to prevent items from falling
- Optional perforated shelves for ventilation and drainage

### Mobility

- Castors: 4 swivel castors, diameter **100 mm** (rubber or PU)
- At least 2 castors with brakes to lock trolley in position
- Smooth and noiseless movement

### Optional Features

- Removable or adjustable shelves
- Push handles on one or both ends
- Side guards / rails to secure items
- Anti-static or anti-microbial coating (for ICU / OT use)
- Foldable or collapsible trolley (for storage)

### Compliance / Standards

- Should comply with **NABH guidelines**
- ISO / BIS standards for hospital furniture

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		<ul style="list-style-type: none"><li>• Suitable for nursing colleges, hospitals, and skill labs</li></ul>	
24	<b>Bottle brush</b>	<p>• General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Bottle brush / cleaning brush</b></li><li>• Usage: Cleaning bottles, feeding cups, laboratory containers, and patient care equipment</li></ul> <p>Material</p> <ul style="list-style-type: none"><li>• Handle: <b>Plastic (PP / Polypropylene)</b> or stainless steel rod with plastic coating</li><li>• Bristles: <b>Nylon / synthetic fiber / polypropylene</b>, durable and non-shedding</li></ul> <p>Dimensions</p> <ul style="list-style-type: none"><li>• Total length: <b>200–300 mm</b> (standard), small variants: 150 mm</li><li>• Brush diameter: <b>20–50 mm</b>, depending on bottle size</li><li>• Bristle length: <b>50–80 mm</b>, firm yet flexible for effective cleaning</li></ul>	2
25	<b>Gallipots</b>	<p>General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Gallipot / Small Medical Container</b></li><li>• Usage: Holding medications, ointments, antiseptics, or small surgical instruments during procedures</li></ul> <p>Material</p> <ul style="list-style-type: none"><li>• <b>Stainless steel (SS304)</b> – preferred for durability and sterilization</li><li>• <b>Medical-grade plastic (PP / Polypropylene / Polycarbonate)</b> – lightweight and disposable options</li></ul> <p>Dimensions / Capacity</p> <ul style="list-style-type: none"><li>• Standard volume: <b>50–150 ml</b></li><li>• Diameter: <b>50–80 mm</b></li><li>• Depth: <b>25–50 mm</b>, depending on volume</li><li>• Stackable design optional for storage</li></ul>	2
26	<b>Pint measure</b>	<p>General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Pint Measure / Graduated Measuring Cup</b></li><li>• Usage: Accurate measurement of liquids for patient care, medication preparation, or dietary purposes</li></ul> <p>Material</p>	2

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	<ul style="list-style-type: none"><li>• <b>Food-grade / medical-grade plastic (PP / Polypropylene / Polycarbonate)</b></li><li>• <b>Stainless steel (SS304)</b> option for durable and reusable versions</li><li>• Non-toxic, BPA-free, and safe for liquids intended for patient use</li><li>• Transparent or polished stainless steel for easy content visibility</li></ul> <p>Capacity / Size</p> <ul style="list-style-type: none"><li>• Standard capacity: <b>1 pint (≈ 500 ml)</b></li><li>• Graduated markings in <b>ml and ounces</b> for accurate measurement</li><li>• Optional smaller or larger variants (250 ml, 750 ml)</li></ul>		
27	<b>B. Instruments</b>		
27.1	<b>Cheatle forceps</b>	<p>General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Cheatle Forceps (also called Sponge Forceps)</b></li><li>• Usage: Holding swabs, dressings, or surgical sponges during procedures, wound care, or sterile applications</li></ul> <p>Material</p> <ul style="list-style-type: none"><li>• <b>High-quality stainless steel (SS304 / SS316)</b></li><li>• Non-toxic, corrosion-resistant, and rust-proof</li><li>• Mirror-polished finish for hygiene and durability</li><li>• Smooth, seamless tips and edges for patient safety</li></ul> <p>Dimensions</p> <ul style="list-style-type: none"><li>• Standard length: <b>230–250 mm</b> (adult version)</li><li>• Tip design: Rounded, fenestrated or plain tips depending on application</li><li>• Handle: Ring or ratchet handle for secure grip</li><li>• Optional pediatric or smaller size variants: 150–180 mm</li></ul>	4
27.2	<b>Sponge holding forceps</b>	<p>General Description</p> <ul style="list-style-type: none"><li>• Type: <b>Sponge Holding Forceps (also called Swab Forceps)</b></li><li>• Usage: To hold surgical sponges, gauze, or dressings during wound care, procedures, or surgical operations</li><li>• Placement: Wards, operation theatres, procedure rooms, and nursing skill labs</li></ul>	4

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		<p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>High-quality stainless steel (SS304 / SS316)</b></li> <li>• Non-toxic, corrosion-resistant, and rust-proof</li> <li>• Mirror-polished finish for durability and hygiene</li> <li>• Smooth tips and edges to prevent tissue injury</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• Standard length: <b>230–250 mm (adult)</b></li> <li>• Pediatric version: 150–180 mm (optional)</li> <li>• Tip: Fenestrated or plain for holding swabs firmly</li> <li>• Handle: Ring or ratchet handle for secure grip</li> </ul>	
<b>28</b>	<b>Artery clamps</b>	<b>Artery clamps</b>	
28.1	Straight 6"	Straight 6"	<b>6</b>
28.2	Curved 6"	Curved 6"	<b>4</b>
<b>29</b>	<b>Dissecting forceps</b>	<b>Dissecting forceps</b>	
29.1	Toothed	Toothed	<b>6</b>
29.2	Non-toothed	Non-toothed	<b>6</b>
<b>30</b>	<b>Mosquito forceps</b>	<b>Mosquito forceps</b>	<b>4</b>
<b>31</b>	<b>Kocher's forceps</b>	<b>Kocher's forceps</b>	<b>4</b>
<b>32</b>	<b>Tissue forceps</b>	<b>Tissue forceps</b>	<b>4</b>
<b>33</b>	<b>Sinus forceps</b>	<b>Sinus forceps</b>	<b>4</b>
<b>34</b>	<b>Biopsy forceps</b>	<b>Biopsy forceps</b>	<b>4</b>
<b>35</b>	<b>Scissors</b>	<b>Scissors</b>	
35.1	Surgical 8"	Surgical 8"	<b>4</b>
35.2	Bandage	Bandage	<b>4</b>
5.3	Mayo's cutting	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>• Type: <b>Mayo's Cutting Forceps (Straight / Curved)</b></li> <li>• Usage: Cutting sutures, wires, or tissues during surgical procedures</li> </ul> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>High-quality stainless steel (SS304 / SS316)</b></li> <li>• autoclavable</li> <li>• Mirror-polished finish for hygiene and durability</li> <li>• Smooth edges for safe handling</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• Length: <b>150–180 mm (standard adult size)</b></li> <li>• Optional sizes: 120–150 mm for pediatric use</li> <li>• Cutting tips: Straight or curved, sharp for precise cuts</li> <li>• Handle: Ring or ratchet handle optional depending on design</li> </ul>	<b>4</b>

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36	Liver biopsy needle	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>Type: <b>Liver Biopsy Needle</b></li> <li>Usage: Percutaneous liver biopsy for obtaining tissue samples for diagnostic purposes</li> </ul> <p><b>Material</b></p> <ul style="list-style-type: none"> <li><b>Stainless steel (SS304 / SS316)</b> – medical grade</li> <li>Non-toxic, corrosion-resistant, and rust-proof</li> <li>Polished and smooth surface for minimal tissue trauma</li> <li>Biopsy handle: Ergonomic design for controlled insertion</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>Length: <b>150–200 mm</b> (typical adult)</li> <li>Needle gauge: <b>16G, 18G, or 20G</b> (depending on procedure protocol)</li> <li>Core length: 20–30 mm (for tissue sampling)</li> <li>Pediatric / small-gauge variants optional</li> </ul>	4
37	Alice forceps	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>Type: <b>Allis Forceps</b></li> <li>Usage: Grasping and holding tissues securely during surgical procedures without causing excessive trauma</li> </ul> <p><b>2. Material</b></p> <ul style="list-style-type: none"> <li><b>High-quality stainless steel (SS304 / SS316)</b></li> <li>autoclavable</li> <li>Mirror-polished finish for hygiene and durability</li> <li>Smooth, rounded edges to prevent accidental injury</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>Standard length: <b>150–200 mm (adult size)</b></li> <li>Pediatric / smaller variants: 120–150 mm</li> <li>Tip: Tooth or serrated tips for secure tissue grip</li> <li>Handle: Ring handle for controlled use</li> </ul>	4
38	Probe	<p><b>General Description</b></p> <ul style="list-style-type: none"> <li>Type: <b>Medical / Surgical Probe</b></li> <li>Usage: Exploring wounds, body cavities, fistula tracts, or surgical sites during procedures</li> </ul> <p><b>Material</b></p>	4

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		<ul style="list-style-type: none"><li>• <b>High-quality stainless steel (SS304 / SS316)</b></li><li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li><li>• Mirror-polished surface for hygiene and smooth manipulation</li><li>• Non-reactive with body fluids or disinfectants</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• Standard length: <b>150–200 mm (adult surgical probe)</b></li><li>• Tip: Rounded, blunt, or flexible depending on application</li><li>• Diameter: 2–4 mm (typical), smaller sizes for pediatric use</li><li>• Optional: Curved or straight probes for specific procedures</li></ul>	
39	Groove director with probe	<p><b>General Description</b></p> <ul style="list-style-type: none"><li>• Type: <b>Groove Director with Probe</b></li></ul> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>High-quality stainless steel (SS304 / SS316)</b></li><li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li><li>• Mirror-polished finish for hygiene and durability</li><li>• Smooth, rounded edges to prevent tissue injury</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• Standard length: <b>150–200 mm (adult size)</b></li><li>• Groove Director blade: narrow, curved or straight as per surgical requirement</li><li>• Probe: blunt or rounded tip, 2–4 mm diameter</li><li>• Pediatric / smaller size optional</li></ul>	4
40	Mouth gag	<p><b>General Description</b></p> <ul style="list-style-type: none"><li>• Type: <b>Mouth Gag</b></li></ul> <p><b>2. Material</b></p> <ul style="list-style-type: none"><li>• <b>High-quality stainless steel (SS304 / SS316)</b></li><li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li><li>• Mirror-polished finish for hygiene and durability</li><li>• Smooth, rounded edges to prevent tissue injury</li></ul> <p><b>3. Dimensions / Size</b></p>	4

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		<ul style="list-style-type: none"><li>• Standard length: <b>120–200 mm</b> (depending on model)</li><li>• Blades: Adjustable or fixed, smooth and rounded tips</li><li>• Handle: Screw, ratchet, or spring mechanism depending on design</li><li>• Pediatric and adult size variants available</li></ul>	
41	<b>Tongue depressor</b>	<p><b>General Description</b></p> <ul style="list-style-type: none"><li>• Type: <b>Tongue Depressor</b></li><li>• Usage: Depressing the tongue to examine the oral cavity, throat, and for minor procedures</li></ul> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Wooden (Sterile, medical-grade birch or beech wood)</b> – disposable type</li></ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"><li>• Standard length: <b>140–160 mm</b></li><li>• Width: 15–20 mm</li><li>• Thickness: 2–3 mm (wooden) or 2 mm (stainless steel)</li><li>• Pediatric size: 100–120 mm (optional)</li></ul>	4
42	<b>Tongue holding forceps</b>	<p><b>General Description</b></p> <ul style="list-style-type: none"><li>• Type: <b>Tongue Holding Forceps</b></li><li>• Usage: To hold and manipulate the tongue safely during ENT, dental, or surgical procedures</li></ul> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>High-quality stainless steel (SS304 / SS316)</b></li><li>• Autoclavable</li><li>• Mirror-polished finish for hygiene and durability</li><li>• Smooth tips to prevent tissue trauma</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• Standard length: <b>120–180 mm (adult size)</b></li><li>• Pediatric / neonatal variants: 80–120 mm</li><li>• Tip: Blunt or serrated, rounded edges for secure tongue grip</li><li>• Handle: Ring or ratchet type for self-retaining use</li></ul> <p><b>Optional Features</b></p> <ul style="list-style-type: none"><li>• Straight or angled versions depending on procedure requirement</li><li>• Pediatric or neonatal size options</li></ul>	4

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		<ul style="list-style-type: none"> <li>• Color-coded handles for easy OT identification</li> <li>• Fenestrated tips for better grip without tissue damage</li> </ul>	
43	Nasal speculum	<p>Material</p> <ul style="list-style-type: none"> <li>• <b>Surgical stainless steel (SS 304 or SS 316)</b> – corrosion-resistant, durable, and autoclavable.</li> <li>• Some disposable versions may be <b>medical-grade plastic</b>.</li> </ul> <p>Design &amp; Dimensions</p> <ul style="list-style-type: none"> <li>• <b>Blades/Prongs:</b> <ul style="list-style-type: none"> <li>○ Smooth, slightly curved to minimize trauma to nasal mucosa.</li> <li>○ Blade width typically <b>10–20 mm</b>.</li> <li>○ Length: <b>40–70 mm</b> depending on adult or pediatric use.</li> </ul> </li> <li>• <b>Handles:</b> <ul style="list-style-type: none"> <li>○ Can be straight or scissor-type.</li> <li>○ Ergonomically designed for comfortable grip.</li> </ul> </li> <li>• <b>Overall length:</b> <ul style="list-style-type: none"> <li>○ Adult: ~ <b>110–140 mm</b></li> <li>○ Pediatric: ~ <b>80–100 mm</b></li> </ul> </li> </ul> <p>Sterilization</p> <ul style="list-style-type: none"> <li>• Autoclavable (standard 121°C for 15–20 min)</li> <li>• Can withstand repeated sterilization cycles without corrosion.</li> <li>• Disposable versions are <b>pre-sterilized, single-use</b>.</li> </ul>	4
44	Aural speculum	<p>General Description</p> <ul style="list-style-type: none"> <li>• <b>Type:</b> Aural Speculum</li> <li>• <b>Usage:</b> To inspect the ear canal and tympanic membrane during ENT examination or minor procedures</li> </ul> <p>Material</p> <ul style="list-style-type: none"> <li>• High-quality stainless steel (SS304 / SS316)</li> <li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li> <li>• Mirror-polished finish for hygiene and durability</li> <li>• Smooth, rounded tips to prevent ear canal injury</li> </ul> <p>Dimensions / Size</p> <ul style="list-style-type: none"> <li>• <b>Adult standard length:</b> 60–100 mm</li> <li>• <b>Pediatric / neonatal variants:</b> 30–60 mm</li> <li>• <b>Outer diameter (tip):</b> 2–8 mm, tapered for comfortable insertion</li> <li>• <b>Handle:</b> Integrated or detachable; compatible with otoscope instruments</li> <li>• <b>Tip:</b> Smooth, conical, or slightly flared for optimal visibility and comfort</li> </ul>	4
45	Re-tractors	Re-tractors	
45.1	Single hook	Single hook	2

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45.2	Double hook	Double hook	2
46	<b>Bladder sound</b>	<p>General Description</p> <ul style="list-style-type: none"> <li>• <b>Type:</b> Bladder Sound (Urethral/Bladder Probe)</li> <li>• <b>Usage:</b> Used for probing, dilating, or exploring the urethra and bladder during urological procedures</li> </ul> <p>2. Material</p> <ul style="list-style-type: none"> <li>• High-quality stainless steel (SS304 / SS316)</li> <li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li> <li>• Mirror-polished finish for hygiene and durability</li> <li>• Smooth, rounded tips to prevent urethral trauma</li> </ul> <p>3. Dimensions / Size</p> <ul style="list-style-type: none"> <li>• <b>Length:</b> 150–350 mm depending on adult, pediatric, or specialized use</li> <li>• <b>Diameter / Gauge:</b> 3–12 Fr (French scale), with graduated increments for size selection</li> <li>• <b>Tip:</b> Rounded, smooth, or slightly tapered for easy insertion</li> <li>• <b>Handle:</b> Flat or rounded handle for secure grip and controlled manipulation</li> </ul>	2
47	<b>Male urethral dilator</b>	<p>General Description</p> <ul style="list-style-type: none"> <li>• <b>Type:</b> Male Urethral Dilator</li> <li>• <b>Usage:</b> Used for gradual dilation of the male urethra to treat strictures, facilitate catheterization, or assist in endoscopic procedures</li> </ul> <p>Material</p> <ul style="list-style-type: none"> <li>• High-quality stainless steel (SS304 / SS316)</li> <li>• Non-toxic, corrosion-resistant, rust-proof, and autoclavable</li> <li>• Mirror-polished finish for hygiene and durability</li> <li>• Smooth, rounded tips to minimize urethral trauma</li> </ul> <p>Dimensions / Size</p> <ul style="list-style-type: none"> <li>• <b>Length:</b> 150–300 mm depending on adult or pediatric use</li> <li>• <b>Diameter / Gauge:</b> 6–24 Fr (French scale) or incremental sizes for sequential dilation</li> <li>• <b>Tip:</b> Rounded, smooth, slightly tapered for atraumatic insertion</li> <li>• <b>Handle:</b> Flat, round, or T-shaped for precise manipulation and grip</li> </ul>	one set
48	<b>Packing forceps</b>	<b>Packing forceps</b>	
48.1	Nasal	Nasal	2
48.2	Oral	Oral	2
49	<b>Ear irrigation syringe</b>	<b>Ear irrigation syringe</b>	2
50	<b>Ear speculum</b>	<b>Ear speculum</b>	2
51	<b>Shaving set</b>	<b>Shaving set</b>	2
52	<b>Safety razor with blades</b>	<b>Safety razor with blades</b>	2
53	<b>Bard Parker knife handle</b>	<b>Bard Parker knife handle</b>	2

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54	Surgical blades of different sizes	Surgical blades of different sizes	2
55	Catheters	<p><b>General Description</b></p> <p><b>Type:</b> Medical Catheter  <b>Usage:</b> Used for drainage, administration of fluids, or access to body cavities such as urinary bladder, blood vessels, or surgical sites.</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• Made from <b>medical-grade silicone, PVC, or latex</b></li> <li>• <b>Non-toxic, biocompatible, and flexible</b> for patient comfort</li> <li>• <b>Sterilizable</b> or supplied pre-sterilized for safe use</li> <li>• <b>Smooth, rounded tips</b> to minimize tissue trauma</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Length:</b> Varies according to type and patient age (pediatric, adult)</li> <li>• <b>Diameter:</b> Measured in French gauge (Fr), ranging from 6 Fr to 24 Fr typically</li> <li>• <b>Tip designs:</b> Open-ended, closed, or with multiple eyelets depending on application</li> <li>• <b>Variants:</b> Foley catheters, feeding catheters, vascular catheters, and suction catheters</li> </ul>	6
56	Airway (adult)	<p><b>General Description</b></p> <p><b>Type:</b> Airway Device (Adult)  <b>Usage:</b> Maintains a patent airway, facilitates ventilation, and prevents airway obstruction during anesthesia, resuscitation, or emergency care</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• Made from <b>medical-grade PVC, silicone, or rubber</b></li> <li>• <b>Sterilizable or supplied pre-sterilized</b> for infection control</li> <li>• <b>Smooth, rounded edges</b> to prevent mucosal injury</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Adult sizes:</b> Typically range from 3 to 5 (based on manufacturer sizing)</li> <li>• <b>Length:</b> Designed to match adult airway anatomy</li> <li>• <b>Variants:</b> Oropharyngeal airway (OPA), Nasopharyngeal airway (NPA)</li> </ul>	4

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	<ul style="list-style-type: none"><li>• <b>Diameter:</b> Sized to ensure airway patency without trauma</li></ul>	
7	<p><b>Laryngoscope big</b></p> <p><b>General Description</b></p> <p><b>Type:</b> Laryngoscope (Small/Pediatric or Adult Compact) <b>Usage:</b> Facilitates visualization of the larynx and vocal cords during intubation or airway management procedures..</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Blade and handle:</b> High-quality stainless steel (SS304 / SS316) or medical-grade aluminum</li><li>• <b>Non-toxic, corrosion-resistant, rust-proof, and autoclavable</b></li><li>• <b>Mirror-polished or smooth finish</b> for hygiene and durability</li><li>• <b>Rounded edges</b> to minimize soft tissue injury</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Small blade:</b> Typically 50–90 mm in length (varies by model)</li><li>• <b>Handle:</b> Short or compact, ergonomic design for precise control</li><li>• <b>Blade types:</b> Straight (Miller) or curved (Macintosh)</li><li>• <b>Variants:</b> Pediatric or small adult size</li></ul>	2
58	<p><b>Proctoscope</b></p> <p><b>General Description</b></p> <p><b>Type:</b> Proctoscope</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• Constructed from <b>high-quality stainless steel (SS304 / SS316) or medical-grade plastic</b></li><li>• <b>Non-toxic, corrosion-resistant, rust-proof, and autoclavable</b></li><li>• <b>Mirror-polished finish</b> ensures hygiene and durability</li><li>• <b>Smooth, rounded edges</b> to prevent tissue injury</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Length:</b> Typically 100–150 mm (varies by model)</li><li>• <b>Diameter:</b> 15–25 mm depending on adult or pediatric use</li><li>• <b>Blades/Tubes:</b> Removable or fixed, straight or slightly tapered</li><li>• <b>Variants:</b> Adult and pediatric sizes available</li></ul>	1

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59	Infusion set	<p><b>General Description</b></p> <p><b>Type:</b> Infusion Set</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Tubing:</b> Medical-grade PVC or silicone, flexible and non-toxic</li> <li>• <b>Spike, connector, and drip chamber:</b> Polypropylene or other biocompatible plastics</li> <li>• <b>Needle/cannula:</b> Stainless steel, sharp, and sterile</li> <li>• <b>Sterile, single-use design</b> to prevent infection</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Tubing length:</b> Typically 100–150 cm</li> <li>• <b>Flow rate:</b> Standard drip (macro/micro) options available</li> <li>• <b>Needle size:</b> 18G–24G depending on intended use and patient age</li> <li>• <b>Variants:</b> Standard adult, pediatric, blood transfusion, and micro-drip sets</li> </ul>	
60	Otoscope	<p><b>General Description</b></p> <p><b>Type:</b> Otoscope</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body and head:</b> High-quality, durable plastics or lightweight aluminum</li> <li>• <b>Specula:</b> Medical-grade, autoclavable, or disposable plastic</li> <li>• <b>Lens:</b> High-quality magnifying lens, typically 2–3× magnification</li> <li>• <b>Light source:</b> LED or halogen for clear illumination</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Handle length:</b> Typically 120–160 mm</li> <li>• <b>Specula diameter:</b> 2.5–5 mm, available in pediatric and adult sizes</li> <li>• <b>Weight:</b> Lightweight for ease of handling</li> <li>• <b>Variants:</b> Standard otoscope, pocket otoscope, and rechargeable LED models</li> </ul>	1
61	Ophthalmoscope	<p><b>General Description</b></p> <p><b>Type:</b> Ophthalmoscope</p> <p><b>Usage:</b> Used to examine the interior structures of the eye, including the retina, optic disc, macula, and blood vessels, for diagnosis of ocular and systemic conditions..</p>	1

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	<p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Body and head:</b> High-quality, durable metals or lightweight plastics</li><li>• <b>Lens system:</b> Precision optics with multiple diopter adjustments</li><li>• <b>Light source:</b> LED or halogen for bright, uniform illumination</li><li>• <b>Eyepiece:</b> High-quality glass or optical-grade material for clear visualization</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Handle length:</b> Typically 120–160 mm</li><li>• <b>Weight:</b> Lightweight for ease of handling</li><li>• <b>Lens range:</b> Diopter adjustments typically from –20D to +20D</li><li>• <b>Variants:</b> Pocket ophthalmoscope, direct ophthalmoscope, and handheld rechargeable models</li></ul>	
62	<p><b>Tracheostomy set with various sizes of tracheal tubes</b></p> <p><b>General Description</b></p> <p><b>Type:</b> Tracheostomy Set (with Multiple Tracheal Tube Sizes)</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Tracheal tubes:</b> Medical-grade PVC, silicone, or polyurethane, biocompatible and non-toxic</li><li>• <b>Set components:</b> Stainless steel (SS304 / SS316) or high-quality autoclavable plastic</li><li>• <b>Non-toxic, corrosion-resistant, and autoclavable</b> for repeated use</li><li>• <b>Smooth, rounded edges</b> to minimize tissue trauma</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Tracheal tube sizes:</b> Typically range from 3.0 mm to 10.0 mm internal diameter (ID) to accommodate pediatric and adult patients</li><li>• <b>Tube length:</b> Varies according to patient size and manufacturer</li><li>• <b>Set components:</b> Scalpels, dilators, forceps, tracheal tube introducers, suction catheters, and ties or sutures</li></ul> <p><b>Sterile, single-use packaging:</b> Maintains infection control standards</p>	1
63	<p><b>Head mirror</b></p> <p><b>General Description</b></p>	1

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		<p><b>Type:</b> Head Mirror <b>Usage:</b> Provides focused illumination for examination of the ear, nose, throat, and oral cavity by reflecting light into the area of interest.</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Mirror:</b> High-quality, polished metal or glass for clear reflection</li><li>• <b>Frame and headband:</b> Stainless steel, aluminum, or durable plastic</li><li>• <b>Non-toxic, corrosion-resistant, and rust-proof</b></li><li>• <b>Adjustable head strap:</b> Soft and comfortable for prolonged use</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Mirror diameter:</b> Typically 50–100 mm</li><li>• <b>Mirror thickness:</b> 2–5 mm depending on model</li><li>• <b>Headband:</b> Adjustable to fit various adult head sizes</li><li>• <b>Weight:</b> Lightweight for comfortable long-term use</li></ul>	
64	Tuning fork	<p><b>General Description</b></p> <p><b>Type:</b> Tuning Fork <b>Usage:</b> Used in audiology and ENT examinations to assess hearing and vibration sense. Commonly employed for Rinne, Weber, and bone conduction tests. <b>Placement:</b> ENT clinics, hospitals, audiology labs, and medical/nursing skill labs.</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Construction:</b> High-quality, spring-tempered steel or aluminum</li><li>• <b>Non-toxic, corrosion-resistant, and durable</b></li><li>• <b>Polished finish</b> ensures smooth surface and hygiene</li><li>• <b>Sturdy stem and tines</b> for consistent vibration</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Frequencies:</b> Commonly 128 Hz, 256 Hz, 512 Hz, and 1024 Hz</li><li>• <b>Length:</b> Typically 100–150 mm</li><li>• <b>Tine spacing:</b> Designed for clear, sustained vibration</li><li>• <b>Variants:</b> Standard adult, pediatric, or bone-conduction models</li></ul>	6
65	Oxygen cylinder with stand	<p><b>General Description</b></p>	1

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		<p><b>Type:</b> Oxygen Cylinder with Stand <b>Usage:</b> Provides a portable and stable source of medical oxygen for patient care, resuscitation, or emergency use</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Cylinder:</b> High-strength, corrosion-resistant steel or aluminum</li><li>• <b>Valve and regulator:</b> Brass or stainless steel for durability and safety</li><li>• <b>Stand:</b> Powder-coated or stainless steel for stability and corrosion resistance</li><li>• <b>Non-toxic and pressure-tested</b> for clinical safety</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Cylinder capacity:</b> Typically 5 liters (small portable) <b>Pressure rating:</b> Usually 150–200 bar (depending on standard and cylinder type)</li><li>• <b>Stand height:</b> Adjustable or fixed, designed to hold cylinder securely</li><li>• <b>Variants:</b> Portable cylinders, trolley-mounted cylinders, wall-mounted options</li></ul>	
66	Oxygen mask	<p><b>General Description</b></p> <p><b>Type:</b> Oxygen Mask <b>Usage:</b> Delivers supplemental oxygen to patients requiring respiratory support, during surgery, emergencies, or critical care.</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Mask body:</b> Medical-grade PVC, silicone, or soft plastic, non-toxic and biocompatible</li><li>• <b>Elastic straps:</b> Adjustable and comfortable for secure fit</li><li>• <b>Transparent design:</b> Allows monitoring of patient's face and condition</li><li>• <b>Autoclavable or disposable:</b> Ensures hygiene and infection control</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Sizes:</b> Pediatric and adult,</li><li>• <b>Oxygen inlet:</b> Standard connector compatible with oxygen tubing and flow meters</li><li>• <b>Mask thickness:</b> Flexible yet durable for proper sealing and comfort</li></ul>	2 set (1 pediatric & 1 Adult)
67	Nasal prongs, venture mask	<p><b>General Description</b></p>	1 ( each)

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	<p><b>Type:</b> Nasal Oxygen Cannula / Prongs <b>Usage:</b> Delivers low-to-moderate concentrations of oxygen directly into the nostrils for patients requiring supplemental oxygen.</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• Medical-grade PVC or silicone, soft and flexible</li><li>• Non-toxic, biocompatible, and transparent for monitoring</li><li>• Elastic or adjustable tubing for comfortable fit</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• <b>Tubing length:</b> Typically 1–2 meters</li><li>• <b>Prong diameter:</b> Small (pediatric) to standard adult sizes</li><li>• <b>Flow rate:</b> 1–6 L/min (low-flow oxygen)</li></ul> <p><b>Venturi Mask – General Description</b></p> <p><b>Type:</b> Venturi (Air-entrainment) Oxygen Mask</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• Medical-grade PVC or silicone for mask body</li><li>• Adjustable head straps for secure fit</li><li>• Transparent design allows monitoring of patient’s face</li></ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"><li>• Available in pediatric and adult sizes</li><li>• Flow rates: Typically 2–15 L/min depending on oxygen concentration setting</li><li>• Color-coded adapters to deliver precise FiO<sub>2</sub> (24%, 28%, 31%, 35%, 40%, 50%)</li></ul>	
68	<p><b>Infra-red lamp</b></p> <p><b>General Description</b></p> <p><b>Type:</b> Infra-Red Therapy Lamp <b>Usage:</b> Provides heat therapy to relieve muscle pain, improve blood circulation, reduce stiffness, and promote healing of soft tissue injuries.</p> <p><b>Material</b></p> <ul style="list-style-type: none"><li>• <b>Lamp body:</b> High-quality, heat-resistant plastic or metal</li><li>• <b>Reflector:</b> Polished aluminum or metal for focused infrared radiation</li><li>• <b>Glass bulb:</b> Infra-red lamp with appropriate wavelength coating</li><li>• <b>Electrical components:</b> Insulated, durable, and compliant with safety standards</li></ul>	1

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		<p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Lamp size:</b> Typically 150–300 mm diameter for standard models</li> <li>• <b>Wavelength:</b> Usually 700–1400 nm (infra-red spectrum)</li> <li>• <b>Stand/Bracket:</b> Adjustable height and angle, 1–2 meters reach</li> <li>• <b>Weight:</b> Lightweight for easy positioning</li> </ul>	
69	Digital thermometer	Digital thermometer	6
70	Glucometer kit	<p><b>General Description</b></p> <p>Type: Blood Glucose Monitoring Kit</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Glucometer body:</b> Medical-grade plastic, durable and lightweight</li> <li>• <b>Test strips:</b> Enzyme-coated, single-use, disposable strips</li> <li>• <b>Lancets:</b> Sterile, single-use, stainless steel or disposable needles</li> <li>• <b>Lancing device:</b> Adjustable depth for safe finger-prick</li> <li>• <b>Batteries:</b> Typically AAA or coin-cell for portability.</li> </ul>	1
71	Nebulizer machine with nebulizer mask	<p><b>General Description</b></p> <p>Type: Nebulizer Machine (with Mask)</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Compressor/Body:</b> High-quality, durable plastic or ABS material</li> <li>• <b>Nebulizer cup:</b> Medical-grade, transparent plastic</li> <li>• <b>Mask:</b> Soft, medical-grade PVC or silicone, non-toxic and biocompatible</li> <li>• <b>Tubing:</b> Flexible, medical-grade PVC for patient comfort</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Machine size:</b> Compact and portable, typically 200–300 mm × 150–200 mm × 100–150 mm</li> <li>• <b>Mask sizes:</b> Pediatric and adult variants</li> <li>• <b>Nebulizer cup capacity:</b> Usually 5–10 mL medication solution per session</li> <li>• <b>Flow rate:</b> 6–10 L/min for optimal aerosol delivery</li> </ul>	1
72	Sphygmomanometer		

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72.1	Regular (Table Clock)	Regular	6																								
72.2	Electronic( Digital)	Electronic	6																								
73	Pulse meter	Pulse Meter	1																								
74	Catheters - Urinary, Foley's, Nasal, Plain & Rectal	<p><b>General Description</b></p> <p>Type: Urinary, Foley's, Nasal, Plain, and Rectal Catheters</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Medical-grade PVC, silicone, or latex:</b> Flexible, non-toxic, and biocompatible</li> <li>• <b>Foley's catheter:</b> Latex or silicone, with an inflatable balloon</li> <li>• <b>Nasogastric/feeding catheters:</b> Soft, flexible, smooth for atraumatic insertion</li> <li>• <b>Rectal catheters:</b> Smooth, blunt-tipped for safe insertion</li> <li>• <b>Sterile, single-use or autoclavable reusable options</b> depending on model</li> </ul> <p><b>Dimensions / Size</b></p> <table border="1"> <thead> <tr> <th>Catheter Type</th> <th>Size Range / Gauge</th> <th>Length / Notes</th> <th>Special Features</th> </tr> </thead> <tbody> <tr> <td>Urinary Catheter</td> <td>12-24 Fr (adult), 8-12 Fr (pediatric)</td> <td>20-40 cm</td> <td>Straight or curved tip for drainage</td> </tr> <tr> <td>Foley's Catheter</td> <td>12-24 Fr</td> <td>20-40 cm</td> <td>Inflatable balloon for retention; adult/pediatric variants</td> </tr> <tr> <td>Nasal Catheter</td> <td>6-12 Fr</td> <td>40-60 cm</td> <td>For oxygen delivery or suctioning</td> </tr> <tr> <td>Plain Catheter</td> <td>8-24 Fr</td> <td>Varies by application</td> <td>Simple tube for drainage or administration</td> </tr> <tr> <td>Rectal Catheter</td> <td>10-24 Fr</td> <td>15-30 cm</td> <td>Blunt, smooth tip for safe insertion</td> </tr> </tbody> </table>	Catheter Type	Size Range / Gauge	Length / Notes	Special Features	Urinary Catheter	12-24 Fr (adult), 8-12 Fr (pediatric)	20-40 cm	Straight or curved tip for drainage	Foley's Catheter	12-24 Fr	20-40 cm	Inflatable balloon for retention; adult/pediatric variants	Nasal Catheter	6-12 Fr	40-60 cm	For oxygen delivery or suctioning	Plain Catheter	8-24 Fr	Varies by application	Simple tube for drainage or administration	Rectal Catheter	10-24 Fr	15-30 cm	Blunt, smooth tip for safe insertion	6
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<b>C. Glass-wares</b>																											
1	Eye bath-cup	<p><b>General Description</b></p> <p>Type: Eye Bath Cup</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Cup body:</b> Medical-grade stainless steel (SS304/SS316) or high-quality autoclavable plastic</li> </ul>	2																								

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		<ul style="list-style-type: none"> <li>• <b>Non-toxic, corrosion-resistant, and rust-proof</b></li> <li>• <b>Smooth, polished edges:</b> Prevent injury to delicate ocular tissues</li> <li>• <b>Transparent plastic variants</b> available for visual monitoring during irrigation</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Cup diameter:</b> Typically 35–50 mm</li> <li>• <b>Depth:</b> 20–35 mm depending on model</li> <li>• <b>Capacity:</b> Usually 25–50 mL of irrigating solution</li> <li>• <b>Variants:</b> Adult and pediatric sizes available</li> </ul>	
2	Undie	Undie	2
3	Pipettes & Droppers (Glass)	Pipettes & Droppers	2
4	Glass connections	Glass connections	
4.1	Different Types e.g. Y.T.L.		6 each
5	Wolfs bottle	<p><b>General Description</b></p> <p>Type: Wolff's Bottle</p> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Volume:</b> Typically 250 mL or 500 mL</li> <li>• <b>Neck:</b> Narrow, tapered for precise irrigation</li> <li>• <b>Height/Width:</b> Standard size for easy grip and handling</li> <li>• <b>Variants:</b> Adult and pediatric nozzle tips available</li> </ul>	2
6	Conical flasks	<p><b>General Description</b></p> <p>Type: Conical Flask (Erlenmeyer Flask)</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Borosilicate glass (heat-resistant, autoclavable) or high-quality plastic (polypropylene)</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Volume:</b> Common sizes include 500 mL &amp; 1000 mL</li> </ul>	2
7	Ounce glass	<p><b>General Description</b></p> <p>Type: Ounce Glass</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Transparent glass (borosilicate or standard medical glass) or durable, medical-grade plastic</li> </ul>	6



		<p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b> Typically 30 mL (1 ounce)</li> <li>• <b>Height:</b> 50–70 mm depending on design</li> <li>• <b>Diameter:</b> 30–50 mm</li> <li>• <b>Graduations:</b> Marked in ounces and milliliters for precise measurement</li> </ul>	
8	<b>Dram glass/vial</b>	<p><b>General Description</b></p> <p><b>Type:</b> Dram Glass / Vial</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Transparent glass (borosilicate or medical-grade) or durable, medical-grade plastic</li> <li>• <b>Cap/Stopper:</b> Rubber or plastic for airtight sealing</li> <li>• <b>Non-toxic, corrosion-resistant, and durable</b></li> <li>• <b>Smooth edges:</b> Safe for handling and pouring</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Capacity:</b> Typically 1–5 mL for dram vials, 30 mL or more for dram glasses</li> <li>• <b>Height/Diameter:</b> Varies depending on capacity</li> <li>• <b>Graduations:</b> Some models marked for precise measurement</li> <li>• <b>Variants:</b> With screw cap, snap cap, or cork stopper</li> </ul>	6
9	<b>Thermometers</b>	<b>Thermometers</b>	
9.1	Oral	Oral	6
9.2	Rectal	Rectal	6
10.	Bath/lotion	Bath/lotion	2
11	<b>Urinometer</b>	<p><b>General Description</b></p> <p><b>Type:</b> Urinometer</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Glass tube with a weighted bulb for flotation</li> <li>• <b>Scale:</b> Calibrated specific gravity markings etched or printed on the stem</li> <li>• <b>Weighted bulb:</b> Lead or steel shot sealed in the base for stability</li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Length:</b> Typically 150–200 mm</li> <li>• <b>Diameter:</b> 15–25 mm depending on design</li> </ul>	6

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		<ul style="list-style-type: none"> <li>• <b>Measurement range:</b> 1.000–1.060 specific gravity units (common for urine)</li> <li>• <b>Variants:</b> Standard adult and pediatric ranges available</li> </ul>	
12	Lactometer	<p><b>General Description</b></p> <p>Type: Lactometer</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Transparent glass tube with a weighted bulb for flotation</li> <li>• <b>Scale:</b> Calibrated markings on the stem for specific gravity</li> <li>• <b>Weighted bulb:</b> Lead or steel shot sealed in the base for proper flotation</li> <li>• <b>Non-toxic, corrosion-resistant, and durable</b></li> </ul> <p><b>Dimensions / Size</b></p> <ul style="list-style-type: none"> <li>• <b>Length:</b> Typically 150–200 mm</li> <li>• <b>Diameter:</b> 15–25 mm depending on design</li> <li>• <b>Measurement range:</b> Usually 1.020–1.040 specific gravity</li> </ul>	6
13	Haemoglobinometer	Haemoglobinometer	6
14	Specimen glasses	Specimen glasses	6
15	Test tubes 5 ml	Test tubes 5 ml	1 Box
16	Glass slide with cover	Glass slide with cover	2 box
17	Bottles 500 ml. capacity for lotions and mixtures	Bottles 500 ml. capacity for lotions and mixtures	10
18	Atomizer	<p><b>General Description</b></p> <p>Type: Medical Atomizer</p> <p><b>Material</b></p> <ul style="list-style-type: none"> <li>• <b>Body:</b> Medical-grade plastic or glass for the reservoir</li> <li>• <b>Nozzle:</b> Soft, flexible plastic or silicone for patient comfort</li> <li>• <b>Pump or bulb:</b> Rubber or plastic for manual mist generation</li> <li>• <b>Non-toxic, durable, and corrosion-resistant</b></li> <li>• <b>Smooth edges:</b> Safe for delicate tissues</li> </ul>	2
	<b>D. Syringes and Needles</b>		
1.	Syringes	Syringes	
1.1	2 ml.	2 ml.	2 Box

*Handwritten signatures and initials in blue ink:*  
 SK, JSD, Kinnaird, MKL



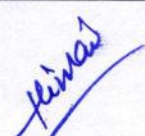



1.2	5 ml.	5 ml.	2 Box
1.3	10 ml.	10 ml.	2 Box
1.4	20 ml.	20 ml.	2 Box
2	<b>Tuberculin syringe</b>	<b>Tuberculin syringe</b>	2 Box
3	<b>Insulin syringe with needle</b>	<b>Insulin syringe with needle</b>	2 Box
4	<b>Needles All sizes</b>	<b>Needles All sizes</b>	1 Box Each
5	<b>Lumbar puncture needle</b>	<b>Lumbar puncture needle</b>	2
6	<b>Trochar &amp; Cannula for abdominal paracentesis</b>	<b>Trochar &amp; Cannula for abdominal paracentesis</b>	1
7	<b>IV Cannulas of different types and sizes - adult</b>	<b>IV Cannulas of different types and sizes - adult</b>	12
8	<b>Biopsy Needle</b>	<b>Biopsy Needle</b>	
8.1	Adult	Adult	2
8.2	Childern	Childern	2
9	<b>Sternal Puncture needle</b>	<b>Sternal Puncture needle</b>	2
	<b>E. Suture Materials</b>	<b>E. Suture Materials</b>	
1	<b>Needle holder</b>	<b>Needle holder</b>	
1.1	6"	6"	6
1.2	7"	7"	6
1.3	8"	8"	6
2	<b>Needles (cutting and round body)</b>	<b>Needles (cutting and round body)</b>	6
3	<b>Suture cutting scissors</b>	<b>Suture cutting scissors</b>	
3.1	Straight	Straight	6
3.2	Curved	Curved	6
4	<b>Suture thread</b>	<b>Suture thread</b>	
4.1	Silk	Silk	2 packets
4.2	Cotton	Cotton	2 packets
5	<b>Catgut</b>	<b>Catgut</b>	
5.1	Silk	Silk	6 tubes
5.2	Cotton	Cotton	6 tubes
6	<b>Catgut tube breaker</b>	<b>Catgut tube breaker</b>	2
7	<b>Suture clip</b>	<b>Suture clip</b>	1 packet
8	<b>Suture clip applier and remover</b>	<b>Suture clip applier and remover</b>	2
	<b>F. Rubber Goods</b>	<b>F. Rubber Goods</b>	
1	<b>Mackintosh roll</b>	<b>Mackintosh roll</b>	
1.1	Full bed length	Full bed length	5
1.2	Draw mackintosh	Draw mackintosh	5
1.3	Extra for treatment and dressing etc.	Extra for treatment and dressing etc.	12
1.4	Catheters	Catheters	
1.5	Urinary catheter	Urinary catheter	6
1.6	Folleys catheter	Folleys catheter	6

*[Handwritten signatures and initials in blue ink]*



1.7	Nasal catheter	Nasal catheter	6
1.8	Plaint catheter	Plaint catheter	6
1.9	Rectal catheter	Rectal catheter	6
2	Hot water bag	Hot water bag	5
3	Ice caps	Ice caps	6
4	Gloves of different sizes	Gloves of different sizes	5 packet of each sizes
5	Finger stalls of different sizes	Finger stalls of different sizes	6 sets each
6	Air rings	Air rings	6
7	Gastric lavage tube	Gastric lavage tube	2
8	Ryle's tube	Ryle's tube	6
9	Flatus tube	Flatus tube	6
10	Blakemore sengstaken tube	Blakemore sengstaken tube	6
11	Rubber tubes with different diameter and size	Rubber tubes with different diameter and size	6
12	Rectal syringe with nozzle	Rectal syringe with nozzle	2
13	Ring pessaries of all sizes	Ring pessaries of all sizes	2 each
14	Douche nozzle with different sizes	Douche nozzle with different sizes	2
	G. Linen	G. Linen	
1	Mattress	Mattress	
1.1	Adult	Adult	15
1.2	Child	Child	5
2	Mattress cover	Mattress cover	
2.1	Adult	Adult	15
2.2	Child	Child	5
3	Bed sheets	Bed sheets	30
4	Draw sheets	Draw sheets	20
5	Pillows	Pillows	
5.1	Large	Large	12
5.2	Small	Small	6
6	Pillow covers	Pillow covers	
6.1	Large	Large	24
6.2	Small	Small	12
7	Sand bags with covers	Sand bags with covers	6
8	Blankets	Blankets	10
9	Bed spreads	Bed spreads	10
10	Towels	Towels	
10.1	Bath	Bath	12
10.2	Hand	Hand	12
10.3	Surgical	Surgical	12
10.4	Packing	Packing	12
10.5	Towel clips	Towel clips	6
11	Sponge cloth	Sponge cloth	12



12	Hot water bag cover	Hot water bag cover	12
13	Ice cap covers	Ice cap covers	12
14	Air ring/cushion covers	Air ring/cushion covers	6
15	Gown & Mask	Gown & Mask	12
16	Patient's clothes	Patient's clothes	12
16.1	Male	Male	12
16.1	Female	Female	12
17	Dirty linen bag/box	Dirty linen bag/box	1
18	Leggings	Leggings	6
19	Perineal sheets	Perineal sheets	5
20	Triangular bandages	Triangular bandages	12
21	Many-tailed bandages	Many-tailed bandages	12
22	Eye shields	Eye shields	5
23	Dusters	Dusters	24
24	Slings	Slings	6
25	T Binder	T Binder	2
26	Screen/bedside curtains	Screen/bedside curtains	2
	<b>H. Miscellaneous Items</b>	<b>H. Miscellaneous Items</b>	
1	Mortar and pestle	Mortar and pestle	6
2	Nelson's inhaler	Nelson's inhaler	6
3	Wooden blocks	Wooden blocks	2
4	Spirit lamp	Spirit lamp	6
5	Test tube stand	Test tube stand	6
6	Test tube holder	Test tube holder	12
7	Sterilizer-small	Sterilizer-small	2
8	Portable autoclave	Portable autoclave	1
9	Torch	Torch	6
10	Nail brush	Nail brush	6
11	Adult weighing scale	Adult weighing scale	2
12	Back rest	Back rest	4
13	Splints of different sizes	Splints of different sizes	12
14	Adhesive tapes	Adhesive tapes	2
15	I.V. Stand	I.V. Stand	4
16	Tape measure	Tape measure	6
17	Bucket with cover	Bucket with cover	6
18	Comb	Comb	6
20	Stethoscope	Stethoscope	6
21	Soap and Soap dish	Soap and Soap dish	12
22	Dust bins	Dust bins	6
23	Over bed table (Heart table)	Over bed table (Heart table)	2
24	Three way adapter	Three way adapter	3
25	Dettol	Dettol	1
26	Phenyle	Phenyle	1
27	Methylated spirit	Methylated spirit	1



28	Benedict's solution	Benedict's solution	1
29	Tr. Iodine/Betadine	Tr. Iodine/Betadine	1
30	Tr. Benzoin	Tr. Benzoin	1
31	Nitric acid	Nitric acid	1
32	Acetic acid	Acetic acid	1
33	Sulphur powder	Sulphur powder	1
34	Ammonium sulphate crystals	Ammonium sulphate crystals	1
35	Vaseline	Vaseline	1
36	Glycerin	Glycerin	1
37	Liquid paraffin	Liquid paraffin	1
38	Potassium permanganate crystals	Potassium permanganate crystals	1
39	Boric solution	Boric solution	1
40	Hydrogen peroxide	Hydrogen peroxide	1
41	Sodium bicarbonate powder	Sodium bicarbonate powder	1
42	Litmus paper strips - red and blue	Litmus paper strips - red and blue	1

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**PRE-CLINICAL SCIENCES LABORATORY  
(Anatomy & Physiology)- Specifications**

Serial No.	Description	Technical Specification	Quantity
1.	<b>Adult human articulated skeleton with hanging facility in a glass cupboard with locking facility</b>	<p align="center"><b>a. Adult Human Articulated Skeleton</b></p> <p><b>Material:</b> High-grade, non-toxic PVC (polyvinyl chloride). It must be washable, unbreakable, and resistant to yellowing over time.  <b>Height:</b> Life-size (approx. 170–180 cm) to represent an average adult.  <b>Anatomical Details:</b> * <b>Skull:</b> 3-part detachable skull with a removable calvarium (skull cap) and a spring-mounted movable jaw (mandible).</p> <ul style="list-style-type: none"> <li>• <b>Teeth:</b> At least 3 removable lower teeth (incisor, cusp, molar) for dental anatomy.</li> <li>• <b>Articulation:</b> All major joints (shoulder, elbow, wrist, hip, knee, ankle) must be fully functional and naturally articulated to demonstrate range of motion.</li> <li>• <b>Spinal Features:</b> Must show vertebral arteries, spinal nerve branches, and a prolapsed/herniated lumbar disc (L4-L5) for clinical correlation.</li> </ul> <p><input type="checkbox"/> <b>Hanging Facility:</b></p> <ul style="list-style-type: none"> <li>• The skeleton should feature a stainless steel hanging rod attached to the top of the skull.</li> <li>• It must come with a sturdy 5-caster roller stand (base width approx. 40–60 cm) for easy transport within the lab.</li> </ul> <p align="center"><b>b. Glass Display Cupboard (Showcase)</b></p> <p><input type="checkbox"/> <b>Structure &amp; Dimensions:</b></p> <ul style="list-style-type: none"> <li>• <b>Height:</b> Minimum 190–200 cm (to accommodate the 180 cm skeleton and its hanging hook).</li> <li>• <b>Width &amp; Depth:</b> Approx. 60 cm x 60 cm to ensure the skeleton hangs freely without touching the glass.</li> </ul> <p><input type="checkbox"/> <b>Materials:</b></p> <ul style="list-style-type: none"> <li>• <b>Frame:</b> High-quality powder-coated mild steel or seasoned teak wood with a polished finish.</li> <li>• <b>Panels:</b> Clear toughened glass (5mm thickness) on at least three sides (front and two sides) for 270-degree visibility.</li> </ul> <p><input type="checkbox"/> <b>Security &amp; Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Locking:</b> Front-opening double doors (or a single large door) equipped with a high-security cylinder lock and duplicate keys.</li> <li>• <b>Internal Hanging Hook:</b> A heavy-duty internal metal hook fixed to the ceiling of the cupboard to support the full weight of the skeleton.</li> <li>• <b>Base:</b> Leveling bolts or heavy-duty lockable wheels if the cabinet needs to be mobile.</li> </ul>	2
2.	<b>Full set of dis-articulated adult human skeleton</b>	<ul style="list-style-type: none"> <li>• <b>Material:</b> Must be made of high-grade, non-toxic PVC (Polyvinyl Chloride). It should be washable, unbreakable, and resistant to typical lab chemicals or oils from handling.</li> <li>• <b>Anatomical Accuracy:</b> The bones should be cast from a real adult specimen, ensuring that all processes, fossae, and fine textures (like the rough surfaces for muscle attachments) are preserved.</li> <li>• <b>Color:</b> Natural bone-like finish (off-white) to prevent glare under lab lights.</li> </ul>	2

*[Handwritten signatures and initials in blue ink]*



		<p>The set must include all <b>206 bones</b> (nominal) of the adult human body, separated for individual study:</p> <ul style="list-style-type: none"> <li>• <b>The Skull: * 3-Part Dissectible:</b> Removable calvarium (skull cap) and a <b>spring-mounted or detachable mandible</b> (lower jaw). <ul style="list-style-type: none"> <li>○ Internal structures like the Sella turcica and various foramina must be clearly visible.</li> </ul> </li> <li>• <b>Vertebral Column:</b> All vertebrae (7 Cervical, 12 Thoracic, 5 Lumbar) supplied loose. Must include the <b>Sacrum and Coccyx</b>.</li> <li>• <b>Thoracic Cage:</b> Full set of <b>24 ribs</b> (12 pairs) and a 3-part <b>Sternum</b> (Manubrium, Body, Xiphoid process).</li> <li>• <b>Appendicular Skeleton: * Hand/Foot:</b> One hand and one foot should be <b>wire-mounted</b> (to show natural arrangement), while the other hand and foot should be <b>completely loose</b> for individual bone identification (carpals, tarsals, phalanges). <ul style="list-style-type: none"> <li>○ <b>Long Bones:</b> Femur, Tibia, Fibula, Humerus, Radius, and Ulna must be separate and show distinct epiphyses.</li> <li>○ <b>Girdles:</b> Includes the Scapulae, Clavicles, and the two Os Coxae (Hip bones).</li> </ul> </li> <li>• <b>Storage Case:</b> Must be supplied in a <b>sturdy, compartmentalized storage box</b> (heavy-duty plastic or wood) to prevent loss of small bones (like the hyoid or ear ossicles, if included).</li> <li>• <b>Weight:</b> Total set should weigh approximately <b>8 kg – 10 kg</b>.</li> </ul>	
3.	<p><b>Full size human body showing all muscles and arteries</b></p>	<ul style="list-style-type: none"> <li>• <b>Scale: Life-size (1:1 ratio)</b>, approximately <b>170 cm – 180 cm</b> in height.</li> <li>• <b>Material:</b> High-grade, non-toxic <b>PVC (Polyvinyl Chloride)</b>. It must be hand-painted using eco-friendly, fade-resistant colors.</li> <li>• <b>Mounting:</b> Must be mounted on a <b>heavy-duty metal base</b> with 5-caster wheels for 360-degree rotation and easy transport.</li> <li>• <b>Numbering:</b> All muscles, organs, and major arteries should be <b>numbered</b> and correspond to a detailed <b>English key/manual</b> provided with the model.</li> <li>• <b>Sex:</b> Usually supplied as <b>Dual-Sex</b> with interchangeable genital inserts (male/female).</li> </ul> <p>Anatomical &amp; Dissectible Features the model must be "dissectible" (removable parts) to show deep structures.</p> <ul style="list-style-type: none"> <li>• <b>Muscular Detail:</b> Must show superficial and deep muscles with realistic textures. At least <b>30–40 parts</b> should be removable, including: <ul style="list-style-type: none"> <li>○ <b>Head:</b> 2-part removable brain.</li> <li>○ <b>Thorax/Abdomen:</b> Removable chest cover, lungs (2 parts), heart (2 parts), liver, stomach, and intestines.</li> <li>○ <b>Extremities:</b> Removable muscles of the arms and legs (e.g., deltoid, biceps, gluteus Maximus, Sartorius) to reveal underlying bone and vessels.</li> </ul> </li> <li>• <b>Vascular Detail (Arteries):</b> * <b>The Arterial System</b> must be clearly color-coded in <b>Bright Red</b>. <ul style="list-style-type: none"> <li>○ Key arteries to be visible: Aorta (ascending/descending), Carotid, Brachial, Radial, Femoral, and Dorsalis Pedi's (critical for pulse-checking practice).</li> </ul> </li> </ul>	2
4.	<p><b>Human Torso Male and female</b></p>	<ul style="list-style-type: none"> <li>• <b>Scale: Life-size (approx. 85 cm – 90 cm tall)</b>. Avoid "mini" models as they lack the detail needed for nursing students to identify small structures like the adrenal glands or ureters.</li> <li>• <b>Material:</b> Made of <b>high-grade, non-toxic PVC</b>. Must be hand-painted with <b>lead-free, fade-resistant</b> colors.</li> <li>• <b>Mounting:</b> Firmly bolted to a <b>sturdy, wide plastic base</b> for stability during repeated assembly and disassembly.</li> </ul>	2 each Male and Female



		<p>The model should consist of at least <b>23 to 25 removable parts</b> to allow for a "layered" study of the body:</p> <ul style="list-style-type: none"> <li>• <b>Head &amp; Neck:</b> Removable <b>3-part brain</b> and a sectioned head showing the nasal and oral cavities.</li> <li>• <b>Thorax:</b> Removable <b>2-part heart</b> (showing valves/atria) and <b>2-part lungs</b> showing the bronchial tree.</li> <li>• <b>Abdomen:</b> Removable stomach (2 parts), liver with gallbladder, and a complete intestinal unit (small and large intestines).</li> <li>• <b>Interchangeable Genitalia:</b> Must include both a <b>4-part male genital insert</b> and a <b>4-part female genital insert</b> (with a removable fetus for embryology basics).</li> <li>• <b>Back:</b> An open-back design to show the <b>vertebral column, spinal cord,</b> and removable vertebrae.</li> <li>• <b>Labeling:</b> All major organs, muscles, and vessels should be <b>numbered</b>.</li> <li>• <b>Documentation:</b> Must include a comprehensive <b>English-language key manual</b> that identifies every numbered part.</li> <li>• <b>Anatomical Accuracy:</b> High fidelity in representing the kidneys, pancreas, and spleen in their correct retroperitoneal or peritoneal positions.</li> </ul>	
5.	<b>Skin cross section</b>	<ul style="list-style-type: none"> <li>• <b>Scale: Enlarged (approx. 35x to 50x life size)</b> to ensure microscopic structures are clearly visible to a group of students.</li> <li>• <b>Material:</b> High-grade, non-toxic <b>PVC</b>. It must be hand-painted with contrast colors to differentiate between various tissue layers.</li> <li>• <b>Design:</b> A <b>3D block model</b> showing a cross-section of human skin in three-dimensional relief.</li> <li>• <b>Mounting:</b> Firmly attached to a <b>sturdy plastic base</b> with rubber feet to prevent slipping on lab benches.</li> <li>• <b>Anatomical Details</b> The model must clearly depict the following three primary layers and their contents: <ul style="list-style-type: none"> <li>- <b>Epidermis:</b> Showing the stratified squamous epithelium, including the stratum corneum and germinativum.</li> <li>- <b>Dermis:</b> Featuring <b>hair follicles, sebaceous (oil) glands, sweat glands</b> (eccrine and apocrine), and sensory receptors (like Pacinian or Meissner corpuscles).</li> <li>- <b>Subcutaneous Layer (Hypodermis):</b> Clearly showing <b>adipose (fat) tissue</b>, larger blood vessels, and nerve fibers.</li> </ul> </li> <li>• <b>Hair Anatomy:</b> Must show the hair shaft, root, bulb, and the <b>arrector pili muscle</b>.</li> <li>• <b>Vascularity:</b> Clearly distinguished <b>Arteries (Red)</b> and <b>Veins (Blue)</b> branching through the dermal papillae.</li> <li>• <b>Numbering:</b> All key structures should be <b>numbered</b> and correspond to a detailed <b>English instructional manual</b> or key card.</li> </ul>	2
6.	<b>Heart and large blood vessels</b>	<ul style="list-style-type: none"> <li>• <b>Scale: Enlarged (approx. 2x to 4x life size)</b> for clear classroom demonstration.</li> <li>• <b>Material:</b> Durable, <b>non-toxic PVC</b> (unbreakable).</li> <li>• <b>Finish:</b> Hand-painted with high-contrast, <b>fade-resistant colors</b> (standard Red for oxygenated and Blue for deoxygenated blood).</li> <li>• <b>Mounting:</b> Removable from a <b>sturdy pedestal base</b> for hands-on examination.</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be <b>2-part or 4-part dissectible</b> to show both external and internal anatomy: <ul style="list-style-type: none"> <li>- <b>External Structures:</b> Must show the <b>Atria, Ventricles,</b> and the <b>Auricles</b>.</li> <li>- <b>Large Blood Vessels:</b> Clear representation of the <b>Superior/Inferior Vena Cava, Aorta (with Ascending, Arch,</b></li> </ul> </li> </ul>	2

Handwritten signatures and initials in blue ink: a large stylized signature, "Jed", "Human", and "MK-2".



		<p>and Descending sections), Pulmonary Artery, and Pulmonary Veins.</p> <ul style="list-style-type: none"> <li>- <b>Internal Structures:</b> When opened, it must reveal the <b>Cardiac Valves</b> (Tricuspid, Bicuspid/Mitral, Pulmonary, and Aortic semilunar valves), the <b>Interventricular Septum</b>, and the <b>Myocardium</b> thickness.</li> <li>- <b>Coronary Circulation:</b> Detailed tracing of the <b>Left and Right Coronary Arteries</b> and the <b>Cardiac Veins</b> on the heart's surface.</li> </ul>	
7.	Heart with detachable parts on a stand	<ul style="list-style-type: none"> <li>• <b>Scale:</b> Life-size (approx. 12 x 12 x 25 cm) for individual study, or <b>Enlarged (2x to 4x life-size)</b> for classroom demonstrations.</li> <li>• <b>Material:</b> High-grade, <b>unbreakable PVC</b>. It must be hand-painted using <b>fade-resistant, non-toxic colors</b>.</li> <li>• <b>Mounting:</b> Must be mounted on a <b>sturdy, removable pedestal base</b> that allows for 360-degree rotation.</li> <li>• <b>Anatomical &amp; Detachable Features</b> The model should be <b>2-part or 4-part dissectible</b> to allow students to examine the internal chambers: <ul style="list-style-type: none"> <li>- <b>Detachable Front Wall:</b> The anterior section of the heart must be removable to reveal the <b>Atria and Ventricles</b>.</li> <li>- <b>Internal Detail:</b> Must clearly show the <b>Bicuspid (Mitral) and Tricuspid valves</b>, as well as the <b>Semilunar valves (Aortic and Pulmonary)</b>.</li> <li>- <b>Vascular Connections:</b> Integrated representation of the <b>Aorta, Superior/Inferior Vena Cava, Pulmonary Artery, and Pulmonary Veins</b>.</li> <li>- <b>Surface Anatomy:</b> Detailed painting of the <b>Coronary Arteries and Cardiac Veins</b> to teach myocardial blood supply.</li> </ul> </li> </ul>	2
8.	Eye with detachable parts on a stand	<ul style="list-style-type: none"> <li>• <b>Scale:</b> <b>Enlarged (approx. 5x to 6x life-size)</b>. Dimensions should be roughly 15 cm x 15 cm x 25 cm.</li> <li>• <b>Material:</b> High-grade, <b>unbreakable PVC</b>. Must be hand-painted with <b>durable, non-toxic, and fade-resistant colors</b>.</li> <li>• <b>Mounting:</b> Firmly mounted on a <b>sturdy removable pedestal base</b> that allows the model to be rotated for a 360-degree view.</li> <li>• <b>Anatomical &amp; Detachable Features</b> The model should be <b>6-part or 7-part dissectible</b> to allow a layered study of the ocular structure: <ul style="list-style-type: none"> <li>- <b>External Shell:</b> Shows the <b>Sclera</b> and the attachment points for the <b>extraocular muscles</b> (superior/inferior rectus, etc.).</li> <li>- <b>Detachable Parts:</b> <ul style="list-style-type: none"> <li>○ <b>Cornea:</b> Transparent and removable.</li> <li>○ <b>Iris:</b> Detailed representation of the pupillary opening.</li> <li>○ <b>Lens:</b> Clear, removable lens to demonstrate the path of light.</li> <li>○ <b>Vitreous Body:</b> A large internal transparent or translucent part.</li> <li>○ <b>Retina:</b> The inner layer should clearly show the <b>Optic Nerve, Macula</b>, and the network of <b>Retinal Blood Vessels</b>.</li> </ul> </li> <li>- <b>Choroid Layer:</b> Visible between the sclera and retina, showing the vascular nature of the middle eye layer.</li> </ul> </li> </ul>	2
9.	Ear with different sections	<ul style="list-style-type: none"> <li>• <b>Scale:</b> <b>Enlarged (approx. 3x to 5x life-size)</b> to ensure all internal sections are visible to a group.</li> <li>• <b>Material:</b> High-grade, <b>non-toxic PVC plastic</b>. It should be hand-painted with high-contrast, fade-resistant colors.</li> </ul>	2



		<ul style="list-style-type: none"> <li>• <b>Mounting:</b> Firmly attached to a <b>stable, non-slip base</b> for classroom display and demonstration.</li> <li>• <b>Sectional View:</b> One side of the model should be open or transparent to show the path of sound waves through the ear canal to the eardrum.</li> <li>• <b>Labeling:</b> All major structures must be <b>numbered or labeled</b> directly on the model.</li> <li>• <b>Documentation:</b> Must include a comprehensive <b>English-language key</b> or instructional manual for student self-study.</li> <li>• <b>Anatomical &amp; Sectioned Features</b> The model should be <b>dissectible into at least 3 to 6 parts</b> to represent the three main regions of the ear:             <ul style="list-style-type: none"> <li>- <b>External Ear:</b> Showing the <b>Auricle (Pinna)</b>, external auditory canal, and the <b>Tympanic Membrane</b> (eardrum).</li> <li>- <b>Middle Ear:</b> A removable section that includes the three <b>Ossicles</b> (Malleus/Hammer, Incus/Anvil, and Stapes/Stirrup) and the opening of the <b>Eustachian Tube</b>.</li> <li>- <b>Inner Ear:</b> A detailed, often 2-part, removable <b>Labyrinth</b> showing the <b>Cochlea</b>, <b>Semicircular Canals</b>, and the <b>Vestibulocochlear Nerve</b> (8th Cranial Nerve).</li> </ul> </li> </ul>	
10	Human brain with spinal cord	<ul style="list-style-type: none"> <li>• <b>Scale: Life-size (1:1 ratio)</b> for accurate anatomical representation.</li> <li>• <b>Material:</b> High-grade, <b>non-toxic PVC</b>. Must be hand-painted with <b>durable, fade-resistant</b> colors to distinguish white matter from gray matter.</li> <li>• <b>Mounting:</b> Mounted on a <b>stable base</b> (typically 30 cm x 40 cm) that allows the model to stand upright for easy viewing.</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be <b>dissectible into at least 4 to 5 parts</b> to show internal and external structures:             <ul style="list-style-type: none"> <li>- <b>The Brain: * 2-part Cerebrum:</b> Removable to show the <b>Corpus Callosum</b> and internal ventricles.</li> <li>○ <b>Cerebellum:</b> Detailed with the "Arbor Vitae" (tree of life) pattern visible.</li> <li>○ <b>Brainstem:</b> Includes the Midbrain, Pons, and Medulla Oblongata.</li> <li>- <b>The Spinal Cord: *</b> A significant section of the <b>Cervical Spinal Cord</b> (often up to the C4 or C7 vertebrae) must be shown.</li> <li>○ Must feature the <b>Spinal Nerve Roots</b> and the <b>Vertebral Artery</b>.</li> <li>- <b>Nerve Origins:</b> All <b>12 pairs of Cranial Nerves</b> should be clearly numbered at their points of exit from the brainstem.</li> </ul> </li> </ul>	2
11	Lungs and Trachea	<p>Scale: Life-size (1:1 ratio) for accurate anatomical perspective.</p> <ul style="list-style-type: none"> <li>• <b>Material:</b> High-grade, <b>non-toxic PVC</b>. Must be hand-painted with <b>fade-resistant</b> colors to differentiate between arteries, veins, and air passages.</li> <li>• <b>Mounting:</b> Firmly attached to a <b>sturdy baseboard</b> (approx. 30 cm x 40 cm).</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be <b>dissectible into at least 5 to 7 parts</b> to reveal internal structures:             <ul style="list-style-type: none"> <li>- <b>The Lungs:</b> Two removable lung lobes (left and right) showing the <b>fissures and lobular structure</b>.</li> <li>- <b>Internal Bronchial Tree:</b> Once the lungs are removed, the model must show the <b>segmental bronchi</b> color-coded to match their respective lung segments.</li> <li>- <b>Trachea &amp; Larynx:</b> A detailed <b>Larynx</b> (removable) showing the thyroid cartilage, epiglottis, and vocal cords. The <b>Trachea</b> should show the C-shaped cartilaginous rings.</li> </ul> </li> </ul>	2

Handwritten signatures and initials in blue ink at the bottom of the page.



		<ul style="list-style-type: none"> <li>- <b>Vascular Detail:</b> Integrated representation of the <b>Pulmonary Artery (Blue)</b> and <b>Pulmonary Veins (Red)</b> at the hilum of the lungs.</li> <li>- <b>Diaphragm:</b> The base should include a representation of the <b>Diaphragm muscle</b> to show its position relative to the base of the lungs.</li> </ul>	
12	Larynx	<ul style="list-style-type: none"> <li>• <b>Scale:</b> Enlarged (approx. 2x to 3x life-size).</li> <li>• <b>Material:</b> High-grade, non-toxic PVC (unbreakable).</li> <li>• <b>Finish:</b> Hand-painted with durable, non-toxic colors to differentiate between cartilage, muscle, and membrane.</li> <li>• <b>Mounting:</b> Mounted on a stable pedestal base; the model should be easily removable for hands-on study.</li> <li>• <b>Anatomical &amp; Dissectible Feature</b> The model should be dissectible into at least 2 to 4 parts (typically a median section) to reveal:             <ul style="list-style-type: none"> <li>- <b>Cartilages:</b> Detailed representation of the <b>Thyroid cartilage</b> (Adam's apple), <b>Cricoid cartilage</b>, and <b>Epiglottis</b> (which should be flexible or movable).</li> <li>- <b>Internal Structures:</b> Clear view of the <b>True and False Vocal Cords</b> (Vocal folds), the <b>Arytenoid cartilage</b>, and the <b>Glottis</b>.</li> <li>- <b>Musculature:</b> Representation of the intrinsic laryngeal muscles.</li> <li>- <b>Associated Structures:</b> Should include the <b>Hyoid bone</b> at the top and the upper rings of the <b>Trachea</b> at the bottom.</li> </ul> </li> </ul>	2
13	Digestive System (Stomach, Small Intestine, Large Intestine, Hepatobiliary)	<ul style="list-style-type: none"> <li>• <b>Scale:</b> Life-size (1:1 ratio) or slightly reduced (approx. 80-90 cm tall).</li> <li>• <b>Material:</b> High-grade, non-toxic PVC. Must be hand-painted with water-resistant, fade-proof colors.</li> <li>• <b>Mounting:</b> Mounted on a sturdy, flat baseboard (approx. 40 cm x 90 cm) for wall mounting or tabletop display.</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be dissectible into 2 to 3 parts to show internal mucosal folds and junctions:             <ul style="list-style-type: none"> <li>- <b>Upper Digestive Tract:</b> Includes the <b>Esophagus</b> and a <b>2-part removable Stomach</b> showing the rugae (internal folds), cardiac, and pyloric sphincters.</li> <li>- <b>Hepatobiliary System:</b> A detailed <b>Liver</b> showing the lobes, a green-coded <b>Gallbladder</b>, and the <b>Pancreas</b> with the pancreatic duct. It must clearly show the <b>Common Bile Duct</b> entering the duodenum.</li> <li>- <b>Small Intestine:</b> Representation of the Duodenum, Jejunum, and Ileum.</li> <li>- <b>Large Intestine:</b> Must show the <b>Cecum, Vermiform Appendix, Ascending/Transverse/Descending Colon, Sigmoid Colon, and Rectum</b>.</li> <li>- <b>Vascular Detail:</b> Should include the <b>Aorta</b> and <b>Inferior Vena Cava</b> to show their relationship to the abdominal organs.</li> </ul> </li> </ul>	2 Each
14	Female Reproductive System	<ul style="list-style-type: none"> <li>• <b>Scale:</b> Life-size (1:1 ratio) for anatomical accuracy or <b>Enlarged (2x)</b> for clearer classroom demonstration.</li> <li>• <b>Material:</b> High-grade, non-toxic PVC (unbreakable). It must be hand-painted with fade-resistant colors.</li> <li>• <b>Mounting:</b> Firmly attached to a sturdy baseboard (approx. 25 cm x 18 cm) for stable tabletop display.</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be dissectible into at least 2 to 4 parts (typically a median longitudinal section) to reveal:</li> </ul>	1 Uterus on stand 2 Ovaries 2 macroscopic structure 2 microscopic structure






		<ul style="list-style-type: none"> <li>- <b>Internal Organs:</b> A detailed view of the <b>Uterus</b> (showing the perimetrium, myometrium, and endometrium), <b>Fallopian Tubes</b> (including the fimbriae), and <b>Ovaries</b> (showing follicles).</li> <li>- <b>External Structures:</b> Representation of the <b>Vagina, Labia, and Clitoris</b>.</li> <li>- <b>Associated Anatomy:</b> The model should include the <b>Urinary Bladder, Urethra, and Rectum</b> to show their spatial relationship within the pelvic cavity.</li> <li>- <b>Vascularity:</b> Clearly distinguished blood vessels supplying the uterine and ovarian tissues.</li> </ul>	
15	Male reproductive system	<ul style="list-style-type: none"> <li>• <b>Scale:</b> Life-size (1:1 ratio) for anatomical accuracy.</li> <li>• <b>Material:</b> High-grade, non-toxic PVC (unbreakable). It must be hand-painted with fade-resistant, contrast colors to differentiate between ducts and glands.</li> <li>• <b>Mounting:</b> Firmly attached to a sturdy baseboard (approx. 25 cm x 18 cm) for stable tabletop display.</li> <li>• <b>Anatomical &amp; Dissectible Features</b> The model should be dissectible into at least 2 to 4 parts (typically a median longitudinal section) to reveal: <ul style="list-style-type: none"> <li>- <b>External Genitalia:</b> Detailed representation of the <b>Penis</b> (showing corpora cavernosa and spongiosum) and the <b>Scrotum</b>.</li> <li>- <b>Internal Organs:</b> <ul style="list-style-type: none"> <li>* <b>Testes:</b> One testis should be sectioned to show the <b>seminiferous tubules</b> and the <b>epididymis</b>.</li> <li>o <b>Duct System:</b> Clear path of the <b>Vas Deferens</b> (Spermatic cord).</li> </ul> </li> <li>- <b>Accessory Glands:</b> Detailed view of the <b>Prostate Gland, Seminal Vesicles, and Bulbourethral (Cowper's) Glands</b>.</li> <li>- <b>Contextual Anatomy:</b> Includes the <b>Urinary Bladder, Ureter, and the Rectum</b> to demonstrate their spatial relationship within the male pelvis.</li> </ul> </li> </ul>	2
16	Urinary System (Kidney)	<ul style="list-style-type: none"> <li>• <b>Material:</b> High-grade, non-toxic PVC (unbreakable).</li> <li>• <b>Design:</b> Usually supplied as a <b>3-in-1 or 2-in-1 relief board</b> or a set of three separate models on a single base.</li> <li>• <b>Finish:</b> Hand-painted with fade-resistant colors (Red for arteries, Blue for veins, and Yellow/Beige for urinary structures).</li> <li>• <b>Mounting:</b> Firmly attached to a sturdy, flat baseboard (approx. 40 cm x 60 cm) for clear display.</li> <li>• <b>Anatomical Sections &amp; Features</b> professional set must include these three distinct sections: <ul style="list-style-type: none"> <li><i>A. Macroscopic Kidney (Longitudinal Section)</i> <ul style="list-style-type: none"> <li>• <b>Scale:</b> 3x life-size magnification.</li> <li>• <b>Details:</b> Must show the <b>Cortex, Medulla (Renal Pyramids), Renal Columns, and the Renal Pelvis</b>.</li> <li>• <b>Vascularity:</b> Clear representation of the <b>Renal Artery and Vein</b> branching into interlobar vessels.</li> </ul> </li> <li><i>B. The Nephron (Microscopic Structure)</i> <ul style="list-style-type: none"> <li>• <b>Scale:</b> Highly magnified (approx. 100x to 120x).</li> <li>• <b>Details:</b> Shows the <b>Renal Corpuscle, Proximal Convoluted Tubule (PCT), Loop of Henle, Distal Convoluted Tubule (DCT), and the Collecting Duct</b>.</li> <li>• <b>Vascular Connection:</b> Shows the peritubular capillaries and vasa recta.</li> </ul> </li> <li><i>C. Renal Corpuscle (Ultra-Microscopic)</i> <ul style="list-style-type: none"> <li>• <b>Scale:</b> Extremely magnified (approx. 600x to 700x).</li> </ul> </li> </ul> </li> </ul>	2 Microscopic and 2 Macroscopic

Handwritten signatures and initials in blue ink: "R", "Jyot", "Heiman", "MKL".



		<ul style="list-style-type: none"> <li><b>Details:</b> Detailed view of <b>Bowman's Capsule</b>, the <b>Glomerulus</b> (capillary knot), and the <b>Podocytes</b> (filtration slits). It should also show the <b>Afferent and Efferent arterioles</b>.</li> </ul>															
17	<b>Joints and Ligament</b>	<ul style="list-style-type: none"> <li><b>Scale:</b> <b>Life-size (1:1 ratio)</b> for all six joints to ensure anatomical accuracy.</li> <li><b>Material:</b> High-grade, <b>non-toxic PVC</b> (for bone) and <b>durable, medical-grade elastic rubber</b> (for ligaments).</li> <li><b>Finish:</b> Bone surfaces should have a realistic, slightly textured finish; ligaments should be distinct in color (typically beige or white).</li> <li><b>Mounting:</b> Each joint must be mounted on a <b>removable stand</b> for individual student handling.</li> </ul> <table border="1" data-bbox="435 607 1344 1478"> <thead> <tr> <th data-bbox="435 607 587 707">Joint</th> <th data-bbox="587 607 1344 707">Specific Requirements</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 707 587 834">Shoulder</td> <td data-bbox="587 707 1344 834">Must show the scapula, clavicle, and humerus stub. Includes the <b>coracohumeral</b> ligament origins. Should allow for abduction and rotation.</td> </tr> <tr> <td data-bbox="435 834 587 961">Hip</td> <td data-bbox="587 834 1344 961">Must show the hip bone (pelvis section) and femur stub. Includes the <b>iliofemoral</b>, and <b>pubofemoral</b> ligaments.</td> </tr> <tr> <td data-bbox="435 961 587 1088">Knee</td> <td data-bbox="587 961 1344 1088">Must show the femur, tibia, fibula, and <b>patella</b>. Includes the <b>ACL, PCL</b> and the menisci. Must demonstrate flexion and extension.</td> </tr> <tr> <td data-bbox="435 1088 587 1215">Elbow</td> <td data-bbox="587 1088 1344 1215">Must show the humerus, radius, and ulna. Includes the <b>annular, ulnar collateral</b> ligaments.</td> </tr> <tr> <td data-bbox="435 1215 587 1342">Wrist</td> <td data-bbox="587 1215 1344 1342">Must show the distal radius/ulna and the <b>carpal bones</b>. Must be flexible demonstrate flexion, extension, and ulnar/radial deviation.</td> </tr> <tr> <td data-bbox="435 1342 587 1478">Ankle</td> <td data-bbox="587 1342 1344 1478">Must show the tibia, fibula, and <b>talus/calcaneus</b>. Includes the <b>deltoid</b> ligament groups.</td> </tr> </tbody> </table>	Joint	Specific Requirements	Shoulder	Must show the scapula, clavicle, and humerus stub. Includes the <b>coracohumeral</b> ligament origins. Should allow for abduction and rotation.	Hip	Must show the hip bone (pelvis section) and femur stub. Includes the <b>iliofemoral</b> , and <b>pubofemoral</b> ligaments.	Knee	Must show the femur, tibia, fibula, and <b>patella</b> . Includes the <b>ACL, PCL</b> and the menisci. Must demonstrate flexion and extension.	Elbow	Must show the humerus, radius, and ulna. Includes the <b>annular, ulnar collateral</b> ligaments.	Wrist	Must show the distal radius/ulna and the <b>carpal bones</b> . Must be flexible demonstrate flexion, extension, and ulnar/radial deviation.	Ankle	Must show the tibia, fibula, and <b>talus/calcaneus</b> . Includes the <b>deltoid</b> ligament groups.	2 each joints
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18	<b>Teeth</b>	<ul style="list-style-type: none"> <li><b>Scale:</b> <b>Enlarged (approx. 3x to 5x life-size)</b> for individual teeth, or <b>2x life-size</b> for a full jaw set.</li> <li><b>Material:</b> High-grade, <b>non-toxic PVC</b>. Gums should be made of <b>soft, flexible silicone</b> or specialized soft PVC to simulate natural gingival texture.</li> <li><b>Finish:</b> Teeth should have a <b>polished, enamel-like finish</b>; internal structures must be hand-painted in high-contrast colors.</li> <li><b>Mounting:</b> Full jaw models should be on a <b>movable hinge (articulator)</b> to demonstrate occlusion.</li> <li><b>Anatomical &amp; Dissectible Features</b> A professional lab set usually includes two types of models:  <i>A. The Full Dental Arcade (Jaw Model)</i></li> <li><b>Complete Set:</b> Must show all <b>32 permanent adult teeth</b>.</li> <li><b>Articulation:</b> A metal screw-joint or spring-mounted hinge to show <b>opening, closing, and lateral movement</b>.</li> </ul>	2														



		<ul style="list-style-type: none"> <li>• <b>Removable Teeth:</b> At least 3–5 teeth (Incisor, Canine, Molar) should be <b>removable</b> to show the root structure.</li> </ul> <p><i>B. Individual "Sectioned" Tooth</i></p> <ul style="list-style-type: none"> <li>• <b>Magnification:</b> 5x life-size.</li> <li>• <b>Dissection:</b> A longitudinal section of a molar or incisor.</li> <li>• <b>Internal Detail:</b> Must clearly show the <b>Enamel, Dentin, Cementum, Pulp cavity</b>, and the <b>Root canal</b> with simulated nerves and blood vessels.</li> </ul>	
19	Chart of skeleton system	<ul style="list-style-type: none"> <li>• <b>Primary Views:</b> Large central illustrations of the <b>Anterior (Front)</b> and <b>Posterior (Back)</b> views of the full human skeleton.</li> <li>• <b>Detailed Insets:</b> Smaller, high-detail diagrams of: <ul style="list-style-type: none"> <li>○ <b>The Skull:</b> Lateral and superior views.</li> <li>○ <b>Vertebral Column:</b> Showing Cervical, Thoracic, Lumbar, Sacral, and Coccygeal regions.</li> <li>○ <b>Bone Structure:</b> A cross-section of a long bone showing the <b>Epiphysis, Diaphysis, and Marrow Cavity</b>.</li> <li>○ <b>Hand and Foot:</b> Detailed anatomy of carpals, tarsals, and phalanges.</li> </ul> </li> <li>• <b>Labeling:</b> All <b>206 bones</b> (or major groups) must be clearly labeled using standard medical nomenclature (English/Latin).</li> </ul>	2
20	Chart of Muscular system showing different muscles of the body	<ul style="list-style-type: none"> <li>• <b>Full Body Views:</b> Large, central illustrations of the <b>Anterior (Front)</b> and <b>Posterior (Back)</b> muscular systems.</li> <li>• <b>Clinical Detail:</b> Must clearly show the <b>Deltoid, Vastus Lateralis, and Gluteal muscles</b> (Maximus and Medius), as these are primary sites for nursing injections.</li> <li>• <b>Deep Muscle Insets:</b> Smaller detailed diagrams showing: <ul style="list-style-type: none"> <li>○ <b>Muscles of the Head and Neck</b> (Mastication and expression).</li> <li>○ <b>The Diaphragm</b> and intercostal muscles (Respiratory mechanics).</li> <li>○ <b>Pelvic Floor Muscles</b>.</li> </ul> </li> <li>• <b>Labeling:</b> All major muscles must be labeled using <b>Standard Medical Nomenclature</b>. Use of "leader lines" that do not obscure the anatomical structures.</li> </ul>	2
21	Chart of Joints and ligaments	<ul style="list-style-type: none"> <li>• <b>Skeletal Overview:</b> A central figure showing the location of all major joints in the body.</li> <li>• <b>Primary Joint Insets:</b> Large, detailed views of the following: <ul style="list-style-type: none"> <li>○ <b>Shoulder:</b> Anterior and posterior views of the left shoulder girdle.</li> <li>○ <b>Hip:</b> Anterior and posterior views of the right hip.</li> <li>○ <b>Knee:</b> Anterior and posterior views of the right knee, including the <b>ACL, PCL, MCL, and LCL</b>.</li> <li>○ <b>Elbow:</b> Anterior, posterior, lateral, and medial views of the left elbow.</li> <li>○ <b>Ankle &amp; Foot:</b> Lateral and medial views showing the <b>deltoid and lateral ligament complexes</b>.</li> <li>○ <b>Wrist &amp; Hand:</b> Superficial volar and dorsal views.</li> </ul> </li> <li>• <b>Joint Classification:</b> A dedicated section or table explaining: <ul style="list-style-type: none"> <li>○ <b>Fibrous (Immovable):</b> e.g., Skull sutures.</li> <li>○ <b>Cartilaginous (Slightly movable):</b> e.g., Intervertebral discs.</li> <li>○ <b>Synovial (Freely movable):</b> Hinge, Ball-and-Socket, Pivot, and Saddle joints.</li> </ul> </li> </ul>	2
22	Chart of Nervous system	<ul style="list-style-type: none"> <li>• <b>Central Nervous System (CNS):</b> <ul style="list-style-type: none"> <li>○ <b>The Brain:</b> Superior, lateral, and median sagittal views. Must label the <b>Cerebrum (lobes), Cerebellum, and Brainstem</b> (Pons, Medulla, Midbrain).</li> </ul> </li> </ul>	2 brain 2 spinal cord



		<ul style="list-style-type: none"> <li>○ <b>The Spinal Cord:</b> A full-length posterior view showing the cord descending through the vertebral canal.</li> <li>● <b>Peripheral Nervous System (PNS):</b> <ul style="list-style-type: none"> <li>○ <b>Cranial Nerves:</b> A base-of-brain view showing the origin of all 12 pairs of cranial nerves.</li> <li>○ <b>Spinal Nerves:</b> Illustration of the <b>Cervical, Brachial, Lumbar, and Sacral plexuses.</b></li> </ul> </li> <li>● <b>Microscopic Inset:</b> A detailed diagram of a <b>Neuron</b>, labeling the dendrites, cell body (soma), axon, myelin sheath, and synaptic terminals.</li> <li>● <b>Cross-Sectional Detail:</b> A transverse section of the spinal cord showing <b>Gray Matter (horns)</b> and <b>White Matter (columns).</b></li> </ul>	
23	<b>Chart of Cardio-vascular system</b>	<ul style="list-style-type: none"> <li>● <b>Systemic Overview:</b> A large central figure showing the <b>full-body vascular network</b>, including major pressure points (Carotid, Brachial, Radial, Femoral, and Dorsalis Pedis).</li> <li>● <b>The Heart:</b> Detailed insets showing: <ul style="list-style-type: none"> <li>○ <b>External Anatomy:</b> Anterior view showing the coronary arteries and cardiac veins.</li> <li>○ <b>Internal Anatomy:</b> A sectioned view showing the <b>four chambers, valves (Tricuspid, Mitral, Semilunar), and the Septum.</b></li> </ul> </li> <li>● <b>Pulmonary vs. Systemic Circuit:</b> A clear schematic diagram illustrating the flow of blood between the heart, lungs, and body tissues.</li> <li>● <b>Microscopic Inset:</b> A diagram showing the structure of an <b>Artery, Vein, and Capillary</b> to highlight the differences in wall thickness and the presence of valves in veins.</li> <li>● <b>Conduction System:</b> A small inset showing the <b>SA Node, AV Node, and Bundle of His</b> to correlate anatomy with ECG basics.</li> </ul>	2
24	<b>Chart of Respiratory System</b>	<ul style="list-style-type: none"> <li>● <b>The Upper Respiratory Tract:</b> Detailed insets of the <b>Nasal Cavity, Pharynx, and Larynx</b> (including the epiglottis and vocal cords).</li> <li>● <b>The Lower Respiratory Tract: * Trachea and Bronchi:</b> Showing the C-shaped cartilaginous rings and the branching of the bronchial tree. <ul style="list-style-type: none"> <li>○ <b>The Lungs:</b> A sectioned view showing the <b>lobes, fissures,</b> and the relationship with the heart.</li> </ul> </li> <li>● <b>Microscopic Inset (Alveoli):</b> A highly magnified diagram of the <b>Alveolar Sacs</b> surrounded by a <b>Capillary Network</b>, illustrating the site of external respiration.</li> <li>● <b>Mechanics of Breathing:</b> A small schematic showing the movement of the <b>Diaphragm</b> and intercostal muscles during inspiration and expiration.</li> </ul>	2
25	<b>Chart of Lungs</b>	<ul style="list-style-type: none"> <li>● <b>Central Lung Anatomy:</b> A large, detailed illustration of both lungs in situ. It must clearly show the <b>lobes</b> (3 on the right, 2 on the left), <b>fissures,</b> and the <b>cardiac notch.</b></li> <li>● <b>The Bronchial Tree:</b> A detailed view of the <b>Trachea, Primary Bronchi,</b> and the subsequent branching into <b>secondary and tertiary bronchioles.</b></li> <li>● <b>Microscopic Inset (Alveoli):</b> A highly magnified diagram of the <b>Alveolar Sacs</b> surrounded by a <b>Capillary Network</b>, illustrating the site of external respiration and gas exchange.</li> <li>● <b>The Diaphragm &amp; Pleura:</b> A clear representation of the <b>Diaphragm muscle</b> at the base and the <b>Pleural membranes</b> (visceral and parietal) surrounding the lungs.</li> <li>● <b>Vascular Detail:</b> Clear depiction of the <b>Pulmonary Artery and Pulmonary Veins</b> entering the hilum.</li> </ul>	2
26	<b>Chart of Trachea</b>	<ul style="list-style-type: none"> <li>● <b>Main View:</b> A large central illustration showing the <b>Trachea</b> extending from the <b>Larynx</b> down to the <b>Carina</b> (the bifurcation point).</li> <li>● <b>Structural Detail: * C-shaped Cartilage:</b> Clear depiction of the tracheal rings that prevent airway collapse.</li> </ul>	2



		<ul style="list-style-type: none"> <li>○ <b>Trachealis Muscle:</b> A posterior view showing the smooth muscle that allows the esophagus to expand during swallowing.</li> <li>• <b>Microscopic Inset (Cross-Section):</b> A detailed transverse section showing the <b>Lumen, Ciliated Pseudostratified Columnar Epithelium</b> (the "mucociliary escalator"), and <b>Goblet Cells</b>.</li> <li>• <b>Bifurcation View:</b> A detailed look at the <b>Carina</b> and the branching into the <b>Right and Left Primary Bronchi</b>, highlighting the steeper angle of the right bronchus (clinically significant for aspiration).</li> <li>• <b>Relationship to Esophagus:</b> A cross-sectional diagram showing the trachea's position anterior to the <b>Esophagus</b>.</li> </ul>	
27	<b>Chart of Larynx</b>	<ul style="list-style-type: none"> <li>• <b>External Anatomy:</b> Anterior, posterior, and lateral views showing the <b>Hyoid bone, Thyroid cartilage</b> (Adam's apple), <b>Cricoid cartilage</b>, and the thyroid gland's position.</li> <li>• <b>Internal Anatomy (Sagittal Section):</b> A clear view of the <b>Epiglottis, Vestibular folds</b> (false vocal cords), and <b>Vocal folds</b> (true vocal cords).</li> <li>• <b>Superior View (Glottis):</b> A specific inset showing the <b>Glottis</b> in both open (breathing) and closed (speaking) positions, including the <b>Arytenoid cartilages</b>.</li> <li>• <b>Musculature:</b> Detailed depiction of the intrinsic muscles that move the vocal cords.</li> <li>• <b>Nerve Supply:</b> Indication of the <b>Recurrent Laryngeal Nerve</b>, which is clinically significant for thyroid surgery education.</li> </ul>	2
28	<b>Chart of Digestive System</b>	<ul style="list-style-type: none"> <li>• <b>The Alimentary Canal:</b> A large central figure showing the path from the <b>mouth/pharynx</b>, through the <b>esophagus</b>, to the <b>stomach</b>, and the full length of the <b>small and large intestines</b>.</li> <li>• <b>Detailed Stomach Inset:</b> A sectioned view of the stomach showing the <b>rugae (internal folds)</b>, the <b>cardiac sphincter</b>, and the <b>pyloric sphincter</b>.</li> <li>• <b>Hepatobiliary System:</b> A detailed diagram of the <b>Liver, Gallbladder, and Pancreas</b>. It must clearly show the <b>Common Bile Duct</b> and the <b>Pancreatic Duct</b> entering the duodenum.</li> <li>• <b>Intestinal Detail:</b> * Clear distinction between the <b>Duodenum, Jejunum, and Ileum</b>. <ul style="list-style-type: none"> <li>○ Detailed view of the <b>Cecum</b> and <b>Vermiform Appendix</b>.</li> <li>○ The segments of the <b>Colon</b> (Ascending, Transverse, Descending, and Sigmoid) and the <b>Rectum</b>.</li> </ul> </li> <li>• <b>Microscopic Inset (Villi):</b> A highly magnified diagram of an <b>intestinal villus</b>, showing the <b>lacteals</b> and <b>capillary network</b> responsible for nutrient absorption.</li> </ul>	2
29	<b>Chart of Oral Cavity</b>	<ul style="list-style-type: none"> <li>• <b>The Open Mouth View:</b> A large central illustration showing the <b>Hard and Soft Palates, Uvula, Palatine Tonsils</b>, and the <b>Oropharynx</b>.</li> <li>• <b>The Tongue:</b> A detailed view of the dorsal surface showing the different types of <b>Papillae</b> (Circumvallate, Fungiform, Filiform) and the <b>Taste Zones</b>.</li> <li>• <b>Dental Anatomy:</b> * An overview of the <b>Upper and Lower Dental Arcades</b> (Adult set of 32 teeth). <ul style="list-style-type: none"> <li>○ A cross-section inset of a <b>Molar</b>, labeling the <b>Enamel, Dentin, Pulp, and Root Canal</b>.</li> </ul> </li> <li>• <b>Salivary Glands:</b> An inset showing the location of the <b>Parotid, Submandibular, and Sublingual glands</b> and their respective ducts.</li> <li>• <b>Gingiva (Gums):</b> Clear depiction of the healthy gingival margin and its relationship to the tooth neck.</li> </ul>	2
30	<b>Chart of Teeth</b>	<ul style="list-style-type: none"> <li>• <b>Complete Dental Arcades:</b> Large illustrations of both the <b>Upper (Maxillary)</b> and <b>Lower (Mandibular)</b> jaws, showing all <b>32 permanent teeth</b> and their proper alignment (occlusion).</li> </ul>	2



		<ul style="list-style-type: none"> <li>• <b>Tooth Morphology:</b> Detailed views of the four types of teeth: <b>Incisors, Canines, Premolars, and Molars.</b></li> <li>• <b>Internal Anatomy (Cross-Section):</b> A highly magnified diagram of a single molar labeling the <b>Enamel, Dentin, Cementum, Pulp Cavity,</b> and the <b>Root Canal</b> with nerves and blood vessels.</li> <li>• <b>Deciduous vs. Permanent:</b> A smaller inset or comparison showing the <b>20 primary (baby) teeth</b> versus the adult set.</li> <li>• <b>Gingival Structure:</b> Clear depiction of the <b>Gum line (Gingiva)</b> and the periodontal ligament attaching the tooth to the alveolar bone.</li> </ul>	
31	<b>Chart of Stomach, Pancreas and Spleen</b>	<ul style="list-style-type: none"> <li>• <b>The Stomach (Dissected View):</b> <ul style="list-style-type: none"> <li>○ Detailed view of the <b>Cardia, Fundus, Body, and Antrum.</b></li> <li>○ Clear depiction of the <b>Pyloric Sphincter</b> and the <b>Rugae</b> (internal mucosal folds).</li> <li>○ Must show the <b>Greater and Lesser Curvatures.</b></li> </ul> </li> <li>• <b>The Pancreas:</b> <ul style="list-style-type: none"> <li>○ Clearly labeled <b>Head, Body, and Tail.</b></li> <li>○ A dissected view showing the <b>Main Pancreatic Duct</b> (Duct of Wirsung) and its connection to the <b>Duodenum.</b></li> </ul> </li> <li>• <b>The Spleen:</b> <ul style="list-style-type: none"> <li>○ Anatomical position relative to the stomach and diaphragm.</li> <li>○ Inset showing the <b>Splenic Artery and Vein</b> (Hilum).</li> </ul> </li> <li>• <b>Vascular &amp; Duct System:</b> <ul style="list-style-type: none"> <li>○ The <b>Celiac Trunk</b> and its branches supplying all three organs.</li> <li>○ The <b>Common Bile Duct</b> joining the pancreatic duct at the <b>Ampulla of Vater.</b></li> </ul> </li> </ul>	2
32	<b>Chart of Small Intestine and Large Intestine</b>	<ul style="list-style-type: none"> <li>• <b>Small Intestine (Intestinum Tenue):</b> <ul style="list-style-type: none"> <li>○ Clear demarcation of the <b>Duodenum, Jejunum, and Ileum.</b></li> <li>○ <b>Microscopic Inset (Villi):</b> A highly magnified diagram of a <b>villus</b>, showing the epithelial cells, goblet cells, lacteals, and capillary network.</li> <li>○ Internal view showing the <b>Plicae Circulares</b> (circular folds).</li> </ul> </li> <li>• <b>Large Intestine (Intestinum Crassum):</b> <ul style="list-style-type: none"> <li>○ Detailed view of the <b>Cecum</b> and the <b>Vermiform Appendix.</b></li> <li>○ The segments of the <b>Colon: Ascending, Transverse, Descending, and Sigmoid.</b></li> <li>○ Structural features including <b>Haustra</b> (sacculations), <b>Taeniae Coli</b> (muscle bands), and <b>Epiploic Appendages.</b></li> <li>○ Termination at the <b>Rectum</b> and <b>Anal Canal</b>, including the internal and external sphincters.</li> </ul> </li> <li>• <b>Junctions:</b> A clear inset of the <b>Ileocecal Valve</b>, demonstrating the transition from the small to the large intestine.</li> </ul>	2
33	<b>Chart of Liver and Gall Bladder</b>	<ul style="list-style-type: none"> <li>• <b>External Liver Anatomy:</b> Large illustrations showing the <b>Anterior</b> and <b>Inferior (Visceral)</b> views. It must clearly label the <b>Right, Left, Caudate, and Quadrate lobes.</b></li> <li>• <b>Ligaments &amp; Surface Features:</b> Clear depiction of the <b>Falciform ligament, Round ligament (Ligamentum teres),</b> and the <b>Coronary ligament.</b></li> <li>• <b>The Biliary Tree (The "Plumbing"):</b> A detailed inset showing the flow of bile: <ul style="list-style-type: none"> <li>○ <b>Right and Left Hepatic Ducts</b> joining into the <b>Common Hepatic Duct.</b></li> <li>○ The <b>Cystic Duct</b> leading from the <b>Gallbladder.</b></li> <li>○ The <b>Common Bile Duct</b> and its junction with the pancreatic duct at the <b>Ampulla of Vater.</b></li> </ul> </li> <li>• <b>Vascular System (The Hilum):</b> Detailed view of the <b>Portal Triad</b>, showing the relationship between the <b>Hepatic Artery, Portal Vein,</b> and <b>Bile Duct.</b></li> </ul>	2

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		<ul style="list-style-type: none"> <li>• <b>Microscopic Inset (The Liver Lobule):</b> A highly magnified diagram of a <b>Hepatic Lobule</b>, showing the central vein, hepatocytes, sinusoids, and Kupffer cells.</li> </ul>	
34	<b>Chart of Kidney (Macroscopic &amp; Microscopic)</b>	<ul style="list-style-type: none"> <li>• <b>In-Situ View:</b> A central figure showing the <b>Posterior Abdominal Wall</b> with both kidneys, emphasizing their <b>Retroperitoneal</b> position and the protection provided by the 11th and 12th ribs.</li> <li>• <b>External Anatomy:</b> Detailed view of the <b>Renal Capsule</b>, the <b>Hilum</b> (entry/exit point), and the surrounding <b>Adrenal (Suprarenal) Glands</b>.</li> <li>• <b>Internal Coronal Section:</b> A large, primary illustration showing: <ul style="list-style-type: none"> <li>○ <b>Renal Cortex:</b> The outer layer.</li> <li>○ <b>Renal Medulla:</b> Clearly defined <b>Renal Pyramids</b> and <b>Renal Columns (of Bertin)</b>.</li> <li>○ <b>The Drainage System:</b> Detailed path from the <b>Renal Papilla</b> to the <b>Minor Calyces</b>, <b>Major Calyces</b>, and the <b>Renal Pelvis</b>.</li> </ul> </li> <li>• <b>Vascular Supply:</b> Clear depiction of the <b>Renal Artery</b> and <b>Renal Vein</b>, showing their branching within the hilum.</li> <li>• <b>The Ureter:</b> The initial segment of the ureter exiting the pelvis, leading toward the bladder.</li> </ul>	2
35	<b>Chart of Skin</b>	<ul style="list-style-type: none"> <li>• <b>Main Cross-Section:</b> A large, highly magnified 3D-style block diagram of the skin layers: <ul style="list-style-type: none"> <li>○ <b>Epidermis:</b> Showing the five sub-layers (<i>Stratum Corneum</i> to <i>Stratum Basale</i>).</li> <li>○ <b>Dermis:</b> Showing the papillary and reticular layers.</li> <li>○ <b>Hypodermis:</b> Showing subcutaneous adipose (fat) tissue.</li> </ul> </li> <li>• <b>Appendages &amp; Structures:</b> Detailed depiction of: <ul style="list-style-type: none"> <li>○ <b>Hair Follicles:</b> Including the <b>Arrector Pili</b> muscle and <b>Sebaceous (Oil) Glands</b>.</li> <li>○ <b>Sweat Glands:</b> Both Eccrine and Apocrine types.</li> <li>○ <b>Sensory Receptors:</b> Clearly labeled <b>Meissner's Corpuscles</b> (touch), <b>Pacinian Corpuscles</b> (pressure), and free nerve endings (pain/temperature).</li> </ul> </li> <li>• <b>Vascular System:</b> A clear view of the <b>Arterioles</b> and <b>Venules</b> supplying the dermal papillae.</li> <li>• <b>Clinical Insets:</b> Small diagrams showing the <b>Nail structure</b> or a comparison of <b>Thin vs. Thick skin</b> (palms/soles).</li> </ul>	2
36	<b>Chart of Eye</b>	<ul style="list-style-type: none"> <li>• <b>Primary Sagittal Section:</b> A large, central 3D-style cross-section of the eyeball. <ul style="list-style-type: none"> <li>○ <b>Outer Layer:</b> Clearly labeled <b>Sclera</b> and <b>Cornea</b>.</li> <li>○ <b>Middle Layer (Uvea):</b> Showing the <b>Iris</b>, <b>Ciliary Body</b>, and <b>Choroid</b>.</li> <li>○ <b>Inner Layer:</b> Detailed depiction of the <b>Retina</b>, including the <b>Macula</b>, <b>Fovea Centralis</b>, and the <b>Optic Disc</b> (blind spot).</li> </ul> </li> <li>• <b>Anterior Segment Detail:</b> An enlarged inset showing the <b>Lens</b>, <b>Suspensory Ligaments</b>, and the flow of <b>Aqueous Humor</b> between the anterior and posterior chambers.</li> <li>• <b>The Optic Nerve:</b> Illustration of the <b>Optic Nerve (Cranial Nerve II)</b> exiting the posterior of the eye and the entry/exit points of the central retinal artery and vein.</li> <li>• <b>Extraocular Muscles:</b> A smaller diagram showing the <b>six muscles</b> (Superior/Inferior/Lateral/Medial Rectus and Superior/Inferior Oblique) responsible for eye movement.</li> </ul>	2
37	<b>Chart of Ear</b>	<ul style="list-style-type: none"> <li>• <b>Primary Cross-Section:</b> A large central illustration showing the three main divisions: <ul style="list-style-type: none"> <li>○ <b>External Ear:</b> Auricle (Pinna), External Auditory Canal, and the <b>Tympanic Membrane</b> (Eardrum).</li> </ul> </li> </ul>	2

*Handwritten signatures and initials:*  
 JZL  
 Human  
 MKL



		<ul style="list-style-type: none"> <li>○ <b>Middle Ear: The Ossicles</b> (Malleus, Incus, Stapes), the Tympanic Cavity, and the <b>Eustachian Tube</b>.</li> <li>○ <b>Inner Ear: The Cochlea, Semicircular Canals, and the Vestibulocochlear Nerve</b> (CN VIII).</li> <li>● <b>Detailed Insets: * The Ossicles:</b> An enlarged view of the three smallest bones in the human body and how they articulate. <ul style="list-style-type: none"> <li>○ <b>The Cochlea:</b> A cross-section showing the <b>Organ of Corti</b> and the hair cells responsible for sound transduction.</li> <li>○ <b>Equilibrium:</b> A detailed look at the <b>Semicircular Canals</b> and the vestibule (Utricule and Sacculle) for balance.</li> </ul> </li> <li>● <b>Tympanic Membrane View:</b> A small inset showing the eardrum as seen through an <b>Otoscope</b>, including the "cone of light" landmark</li> </ul>	
38	<b>Chart of Female Reproductive System</b>	<ul style="list-style-type: none"> <li>● <b>Sagittal (Lateral) Section:</b> A detailed side view showing the relationship between the <b>Uterus, Bladder, and Rectum</b>. This is critical for teaching catheterization and pelvic landmarks.</li> <li>● <b>The Uterine Wall:</b> A detailed inset showing the three layers: <b>Perimetrium, Myometrium, and Endometrium</b>.</li> <li>● <b>External Genitalia (Vulva):</b> A clear diagram of the <b>Labia Majora/Minora, Clitoris, and Vaginal Orifice</b>.</li> <li>● <b>Ovarian Cycle Inset:</b> A microscopic diagram showing the <b>Maturation of a Follicle, Ovulation, and the Corpus Luteum</b>.</li> <li>● <b>Mammary Glands:</b> A lateral section of the <b>Breast</b>, showing the lobules, milk ducts, and fatty tissue.</li> </ul>	2
39	<b>Chart of Menstrual Cycle</b>	<ul style="list-style-type: none"> <li>● <b>Level 1: Pituitary Hormones:</b> Graphs showing the surges of <b>FSH (Follicle-Stimulating Hormone)</b> and the <b>LH (Luteinizing Hormone)</b> spike that triggers ovulation.</li> <li>● <b>Level 2: Ovarian Cycle:</b> A visual progression showing: <ul style="list-style-type: none"> <li>○ <b>Follicular Phase:</b> Primary follicle to Mature (Graafian) follicle.</li> <li>○ <b>Ovulation:</b> Release of the secondary oocyte (Day 14).</li> <li>○ <b>Luteal Phase:</b> Formation and degradation of the <b>Corpus Luteum</b>.</li> </ul> </li> <li>● <b>Level 3: Ovarian Hormones:</b> Graphs showing the rise of <b>Estrogen</b> (pre-ovulatory) and <b>Progesterone</b> (post-ovulatory).</li> <li>● <b>Level 4: Uterine (Endometrial) Cycle:</b> A detailed cross-section of the uterine lining showing: <ul style="list-style-type: none"> <li>○ <b>Menstrual Phase:</b> Shedding of the functional layer.</li> <li>○ <b>Proliferative Phase:</b> Regrowth of the endometrium.</li> <li>○ <b>Secretory Phase:</b> Thickening and vascularization of the lining.</li> </ul> </li> </ul>	2
40	<b>Chart of Male Reproductive System</b>	<ul style="list-style-type: none"> <li>● <b>Sagittal (Lateral) Section:</b> A detailed side view showing the relationship between the <b>Penis, Testes, Bladder, and Rectum</b>. This is critical for teaching the path of the <b>Urethra</b>.</li> <li>● <b>Frontal (Anterior) View:</b> A central illustration showing the <b>Testes, Epididymis, Vas Deferens, Seminal Vesicles, and Prostate Gland</b>.</li> <li>● <b>Testicular Inset:</b> A magnified cross-section of a testis showing the <b>Seminiferous Tubules</b>, where sperm production occurs.</li> <li>● <b>Microscopic Inset (Spermatozoon):</b> A detailed diagram of a human sperm cell, labeling the <b>Head (with Acrosome), Midpiece (with Mitochondria), and Tail (Flagellum)</b>.</li> <li>● <b>The Prostate:</b> A clear view of the prostate gland surrounding the urethra, which is essential for teaching age-related clinical conditions.</li> </ul>	2
41	<b>Chart of Endocrine System</b>	<ul style="list-style-type: none"> <li>● <b>Central Full-Body Figure:</b> A large illustration showing the precise locations of all major endocrine glands in the male and female body.</li> <li>● <b>The "Master Gland" Inset:</b> A highly detailed enlarged view of the <b>Hypothalamus</b> and the <b>Pituitary Gland</b> (Anterior and Posterior lobes), showing the vascular and neural connections between them.</li> <li>● <b>Individual Gland Details:</b></li> </ul>	2

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		<ul style="list-style-type: none"> <li>○ <b>Thyroid &amp; Parathyroid:</b> Anterior and posterior views of the larynx/trachea area.</li> <li>○ <b>Adrenal Glands:</b> Cross-section showing the <b>Cortex</b> and <b>Medulla</b>.</li> <li>○ <b>Pancreas:</b> Highlighting the <b>Islets of Langerhans</b>.</li> <li>○ <b>Gonads:</b> Ovaries (female) and Testes (male).</li> <li>○ <b>Pineal &amp; Thymus Glands:</b> Their location and primary functions.</li> <li>● <b>Hormone-Target Table:</b> A clear, integrated table listing: <ul style="list-style-type: none"> <li>○ Gland Name</li> <li>○ Hormones Secreted (e.g., Insulin, Thyroxine, Cortisol)</li> <li>○ Primary Target Organ/Function (e.g., Glucose regulation, Metabolism).</li> </ul> </li> </ul>	
42	<b>Chart of First Aid for Burns</b>	Chart of First AID for Burns	2
43	<b>Chart of CPR (Adult, Children &amp; Infant)</b>	Chart of CPR (Adult, Children & Infant)	1 each
44	<b>Bandaging Techniques Chart</b>	Bandaging Techniques Chart	1

**Note :** All chart should have following specification as mentioned below

- **Base Material:** High-quality flexible PVC (Polyvinyl Chloride) or Toughened Synthetic Paper. Avoid plain paper as it tears easily in a lab environment.
- **Dimensions** Standard 70 cm x 100 cm
- **Lamination:** Double-sided hot-sealed lamination (at least 30 microns) to make the chart waterproof, dust-proof, and washable.
- **Printing:** High-definition offset printing using UV-resistant inks to prevent fading from sunlight or overhead lab lights.
- **Mounting:** Must be fitted with plastic or metal rollers at the top and bottom, including a sturdy hanging cord.
- **Dimensions** Standard 70 cm x 100 cm

**Note:**

All equipment should comply with BIS/ISI/ISO/CEE standards

- **Medical devices should follow WHO/Indian Public Health Standards (IPHS)/CE**
- **Equipment must be easy to clean, portable, and durable**
- **Calibration required annually for measuring devices.**

**Equipment/Instrument Warranty 3yrs**

University reserved the right to enhance or mitigate the quantity without any notice. **Note:** All the accessories (in all respect) which shall be required to run the machine has to be supplied along with the machine.

**OTHER REQUIREMENTS:** The bidders will have to fulfil the following general requirements:

The bidder should ensure that all items will be supplied in time and as per specifications.

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I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder

Name: .....

Designation: .....

Organization Name: .....

Contact No.: .....

*[Two large, curved blue lines, possibly representing a signature or a large mark.]*

*[Handwritten signatures and initials in blue ink: "SR", "Jyal", "Kishan", "MRZ"]*



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## Technical Specification and Compliance Sheet

**Bid Criterion:** The purpose of buying the tools is for the proper education and training of students & make them employable in Industry. Hence the tools availability & reliability should be in high order with the latest version. To ensure flawless service back up and 100% tools availability without any downtime is necessary.

1. The offered tools Model must be working in India, without any Problems.
2. The Bidder should provide relevant manuals both hard and soft copy.
3. The warranty period shall be (as stated at "Schedule "of this tender) from date of successful/satisfactory inspection report and acceptance of the equipment/material/goods by the SVSU for each item/system on comprehensive basis.
4. Warranty period of the product is required to be minimum of 3 Years.

### Performance Security:

- 11.1 Performance Bank Guarantee is mandatory.
- 11.2 The Successful Bidder shall require to submit the performance security/Guarantee for 02% of total amount in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount mentioned within 21 days from the date of receipt of work order/purchase order and should be kept valid for a period of 180 days beyond the date of completion of contract period. The Performance security in other form viz., FD/Term Deposit Receipt etc. shall not be accepted.
- 11.3 The Successful Bidder should submit performance security/Guarantee as prescribed above to be received in the office of Purchase branch svsu.
- 11.4 The Performance Bank Guarantee should be established in favour of The Registrar Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana 121102," through any Bank situated at palwal or outstation with a clause to enforced the same on their local branch at Palwal. Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful Bidder and the Lessee under the terms and conditions of acceptance to tender.
- 11.5 If the lessor fails to submit the performance security within 21 days from the date of receipt of work order/purchase order and if there is delay in submission of performance security, purchase order may be cancelled. The competent authority may accept the performance security after the above-mentioned deadline of 21 days subject to submission of justification by the Bidder, however the decision of the competent authority is final in this regard.
- 11.6 The successful Bidder is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the

*[Handwritten signatures in blue ink]*



terms and conditions and specification and all other documents referred to in the acceptance of tender.

**12 Resolution of Disputes:** The dispute resolution mechanism would be as follows:

12.1 In case of Dispute or difference arising between the buyer and seller relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Vice Chancellor, Shri Vishwakarma Skill University and if he is unable or unwilling to act, the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

12.2 In the case of a dispute between the lessee and a Foreign Lessor, the dispute shall be settled by arbitration in accordance with provision of sub- clause (i) above. But if this is not acceptable to the lessor then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

12.3 The venue of the arbitration proceeding shall be Palwal, Haryana.

13. The tools should be complete in all respect but not limitation to following.

A large blue arrow points from the top right towards the bottom left. Below the arrow, there are three handwritten signatures in blue ink. The first signature is on the left, the second is in the middle and includes the word 'Palwal' written below it, and the third is on the right. There is also a fourth signature located further down and to the left of the other three.



<< Organization Letter Head >>

### BID SUBMISSION



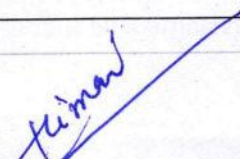

Online Bid Submission:

Online system shall be followed, i.e.

- (i) Please note that in any case if price-bid/Financial Offer submitted manually then bid shall not be accepted.
- (ii) Only those proposals will be considered for opening, who have submitted their BID online by due date/time (as specified in Bid Data Sheet).

The Online bid completes in all respect. The following checklist is for the convenience of the bidders. Kindly check the following points before submitting the bids.

Sr. No.	Content	Document Submitted (Yes/No)	Page Number as per numbering given to the technical bid documents uploaded on the portal (If Applicable)
1.	All pages of the proposal have been properly numbered and signed with seal of firm by bidder/authorized signatory person only. Unattested documents will not be entertained.		-----
2.	Have submitted the Scanned copy (PDF format) of the technical proposals on e-Procurement Portal?		-----
3.	Have submitted EMD and TENDER+ E-Service charges on e-Procurement Portal?		-----
4.	Have you checked the eligibility Criteria and Submitted the relevant documents as proof on e-Procurement Portal?		-----
5.	Have submitted the Company PAN, GST, Registration & associated Documents etc. on e-Procurement Portal?		
6.	Have submitted the authority letter for signing the proposal on behalf bidder on e-Procurement Portal?		
7.	Have submitted the authority letter for use of digital signature on e-Procurement Portal?		
8.	Have submitted the latest audited Balance Sheet, Profit and Loss statement, Turnover Sheet and Income Tax Return Acknowledgement Copy of the same for financial eligibility.		
9.	Have submitted the Terms and Condition as per Annexure I		



10.	Have submitted the Technical Specification and Compliance Sheet as per Annexure – II		
-----	--	--	--

Sr. No.	Content	Document Submitted (Yes/No)	Page Number as per numbering given to the technical bid documents uploaded on the portal (If Applicable)
11.	Have submitted the Details of Bid Submission as per Annexure - III		
12.	Have submitted the Affidavit regarding Authenticity and correctness of information/documents as per Annexure - X		
13.	Have submitted the Affidavit regarding delisting/blacklisting, demobilization etc. as per Annexure - XI		
14.	Have submitted the Affidavit and relevant certificate/document (Annexure - A and B/C/ B&C both) regarding seeking benefits/concessions by Haryana based manufacturing Micro, Small and Medium Enterprises (MSEs) and Startups/First Generation Entrepreneurs as per Annexure – XIII/XIV/XV		
15.	Have submitted the Certificate for Model Clause for Land Border Sharing Countries with India as per Annexure – XVI		
16.	Have submitted the Organization Declaration Sheet as per Annexure – IV		
17.	Have submitted the Technical supporting documents (Detailed literature/catalogue of the quoted instrument and accessories) in support of all claims made at Annexure-II		
18.	Have submitted the TENDER corrigendum (if any) has been signed by bidder/authorized signatory and submitted on e-Procurement Portal?		
19	Have submitted the Notice Inviting Tenders and Instructions to Bidders with sign and seal of bidder/authorized signatory?		
20	Have submitted the financial bid itemwise.		

The bidders may submit their complete bids (with all the requisite documents) in multiple files with their respective file name as mentioned below however each file size should be upto 20 MB. Each document name should be written as "Firm Name\_File Name".

*[Handwritten signatures]*



• The documents submitted by the bidder should be in readable view otherwise unreadable documents will not be considered.

*[Three large, curved blue lines, possibly representing redacted content or a signature flourish.]*

*[Handwritten notes in blue ink:]*  
82  
[Signature]  
fiman  
MK2?



Sr. No.	Content	File Name	Document Uploaded (Yes/No)
1.	Company PAN, GST, TAN etc. Authority letter for signing the proposal and use of digital signature	Firm_Details	
2.	Audited latest Balance Sheet, Profit and Loss statement, Turnover Sheet and ITR Acknowledgement Copy	Financial_Details	
3.	Documents as per Annexure – I and III	Terms_and_Conditions	
4.	List of Organizations and minimum two performance reports with proof as per Annexure - V	Experience	
5.	Documents as per Annexure – II, IV, VI, VIII and IX	Technical	
6.	Technical supporting documents in support of all claims made at Annexure-II	Technical_Details	
7.	Self-Attested corrigendum (if any), Affidavits, Land Border Sharing Certificate and Other Documents	Affidavits_and_Others	

(Signature with Seal of the Bidder) Name:

..... Designation:

..... Organization Name:

..... Contact No.:

.....



<<Organization Letter Head >>  
DECLARATION SHEET

I/We, \_\_\_\_\_ hereby declare that all the information and statements made in this Proposal are true and accept that any misleading information contained in it may lead to our disqualification. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document.

I/We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

Name & Address of the Bidder	
Bidder Category: Manufacturer/authorized dealer/distributors/agent	
Phone	
E-mail ID	
Contact Person Name	
Contact Person Mobile Number	
Contact Person E-mail ID	
GST Number	
PAN Number	



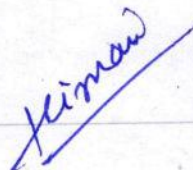

(Signature with Seal of the Bidder) Name:

..... Designation:

..... Organization Name:

..... Contact No.:

.....

## FORMAT FOR PERFORMANCE BANK GUARANTEE

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT PALWAL OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT PALWAL OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT PALWAL. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,  
The Registrar,  
Shri Vishwakarma Skill University, Dudhola, Palwal,  
Haryana, India

### **LETTER OF GUARANTEE**

WHEREAS Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana (Buyer) have invited Tenders vide

Tender No.: ..... dated: .....

For purchase of  
.....

and whereas the said tender document requires that any eligible successful Bidder (seller) wishing to supply the tools/machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of "Shri Vishwakarma Skill University" in the form of Bank Guarantee for Rupees ..... and valid till ..... from the date of issue of Performance Bank Guarantee that may be submitted within 21 days from the date of receipt of work order/purchase order and should be kept valid for a period of 180 days beyond the date of completion of warranty period.

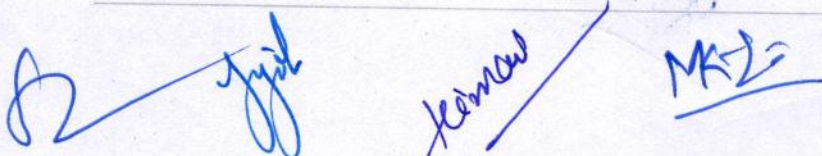
NOW THIS BANK HEREBY GUARANTEES that in the event of the said Bidder (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the tools/machinery, etc. this bank shall pay to Shri Vishwakarma Skill University, DUDHOLA, PALWAL, HARYANA on demand and without protest or demur Rupees .....

This bank further agrees that the decision of Shri Vishwakarma Skill University (Buyer) as to whether the said Bidder (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ..... (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Bidder (Seller) and/ or Shri Vishwakarma Skill University (Buyer).

**Notwithstanding anything contained herein:**

1. Our liability under this Bank Guarantee shall not exceed Rupees. ....  
(Indian Rupees only).





- 2. This Bank Guarantee shall be valid up to..... (date).
- 3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if Institute serve upon us a written claim or demand on or before (date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

**Instruction to Bank:** Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

*[Handwritten signatures in blue ink: "Jit", "Himal", and "MKL"]*

*[Handwritten signature in blue ink]*



Affidavit regarding Authenticity and correctness of information/documents

|| SPECIMEN AFFIDAVIT ||

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for ..... (Name of the Tender) dated..... for quoting against the Tender as an owner/Director/Proprietor of M/s.....

I/we ..... who is/are ..... (status in the firm/company) and competent for submissions of the affidavit on behalf of M/S ..... (Organization/Manufacturer/authorized dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

I/we am/are fully satisfied for the correctness of the certificates/records submitted in support of the following information in bid documents which are being submitted in response to notice inviting e-tender No. ....

We also agreed to buyer for Integrity Pact terms and conditions as applicable from time to time as per government rules.

I/we am/are fully responsible for the correctness of following self-certified Information/ documents and certificates:

- 1. That the self-certified information given in the bid document is fully true and authentic.
- 2. That:
  - 1. Information regarding financial qualification and annual turnover is correct.
  - 2. Information regarding various technical qualifications is correct.
  - 3. Information regarding various relevant documents is correct and authentic.

Dated

Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

Dated

Signature with Seal of the Deponent (Bidder)

Note: Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma Skill University, Dudhola, Palwal Haryana on Technical Presentation day/date.

Handwritten signatures in blue ink: a large stylized signature, a signature that looks like 'Jyoti', a signature that looks like 'Karnav', and a signature that looks like 'MR L'.



Affidavit regarding delisting/blacklisting, demobilization etc.

**|| SPECIMEN AFFIDAVIT ||**

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for ..... (Name of the Tender) dated..... for quoting against the Tender as an owner/Director/Proprietor of M/s.....

I/we \_\_\_\_\_ who is/are \_\_\_\_\_ (status in the firm/company) and competent for submissions of the affidavit on behalf of M/S\_\_\_\_ (Organization/Manufacturer/authorized dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

The firm/agency should not be black-listed/de-listed/debarred/demobilized for poor or unsatisfactory performance from any project by Govt. of India/Any other State Govt./Haryana Govt. or its Departments/agencies etc.

Dated

Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

Dated

Signature with Seal of the Deponent (Bidder)

**Note:** Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma Skill University, DUDHOLA, PALWAL, HARYANA on Technical Presentation day/date.

*[Handwritten signatures in blue ink]*



**Affidavit regarding Terms and Conditions completion of Supply of Items for Nursing Laboratories (Major/Minor equipment/Items, glassware, plasticware, reagents and chemicals)**

in running condition within stipulated time frame

**|| SPECIMEN AFFIDAVIT ||**

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for ..... (Name of the Tender) dated..... for quoting against the Tender as an owner/Director/Proprietor of M/s.....

I/we \_\_\_\_\_ who is/are \_\_\_\_\_ (status in the firm/company) and competent for submissions of the affidavit on behalf of M/S \_\_\_\_\_ (Organization/Manufacturer/authorized dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We hereby declare that our firm will abide to all the terms & conditions as enumerated in the Tender document and supply the tools as per Technical Specification of tools as enumerated in the tender document.

I/we further declare that if any delay is found in delivery, not fulfil the terms and conditions, not supply the items as per technical specifications and the offer is not accepted partially or fully by our firm(s) the performance security or EMD furnished as per the tender document is liable to be forfeited unconditionally and no objection of being blacklisted in these circumstances.

Dated

Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

*[Handwritten signatures in blue ink: "S", "J", "Kaimai", "M.L."]*



Dated

Signature with Seal of the Deponent (Bidder)

Note: Affidavit duly notarized in original shall submit in the Office of Purchase & Store, Shri Vishwakarma Skill University, Village-Dudhola, Palwal, Haryana on Technical Presentation day/date.

Three large, sweeping blue ink strokes, likely representing a signature or a placeholder for a signature, are positioned in the middle of the page.

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*



Affidavit regarding Seeking benefits/concessions in Past Performance & Experience and Purchase Preference by Haryana based manufacturing Micro & Small Enterprises (MSEs)

|| SPECIMEN AFFIDAVIT ||

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for .... (Name of the Tender) dated..... for quoting against the Tender as an owner/Director/Proprietor of M/s .....

I ..... S/o.....aged ..... residing at ..... Proprietor/Partner/Director of M/s..... do hereby solemnly affirm and declare that: -

1. My/our above noted enterprise M/s ..... (Name & Address) has been issue Manufacturing Entrepreneurs Memorandum in Haryana by the District Industries Centre ..... under acknowledgement No. ....of dated ..... (Self-certified copy of the same is attached as Annexure 'A' with this affidavit) and has been issued for manufacture of the following items in Category Micro/Small Enterprise (Please tick the either) as under: -

- I. ....
II. ....
III. ....
IV. ....

2. That the quoted item(s) in the tender .....is all of the quoted items for which my/our above noted enterprise has been issues Manufacturing Entrepreneurs Memorandum by the Industry Department Haryana as per details at para 1 above.

3. That my/our above-mentioned manufacturing Micro/ Small Enterprises fulfils meet all the remaining terms & conditions of the tender except turnover, past Performance & past Experience and fulfils either or both of the below mentioned eligibility criteria:

I. That my/our above-mentioned enterprise has been issued quality certification of ISI Mark/ISO/Ag. Mark/any other quality mark ..... (Please tick either of the option) by ..... (name of GOI/ State Govt. Agency/institution authorized by GOI/ State Govt.) on ..... and the same is valid from..... to.....in respect of item/good (give name of item/good) ..... mentioned in the tender (Self Certified copy of the relevant certificate is attached as Annexure 'B' with this affidavit)

Handwritten signatures and the text 'OR/AND' with another signature.



II. That my/our above-mentioned enterprises has been registered with DGS&D, GOI/  
NSIC/ Govt. of India Department/ State Govt. Department/Govt. of India Public

Sector Undertaking (PSUs) or State Government Public Sector Undertakings (PSUs) (Please tick one of the option as above) in respect of Name of Item/goods/work/Services  
..... (Name) as mentioned in the tender of the corresponding period of time of this tender. A self-certified copy of the same attached as Annexure 'C' with this affidavit.

1. That in case the purchase Order of the quoted item is issued to me/us, it will not be outsourced or subcontracted to any other firm and the entire manufacturing of the order items shall be done in house by our Enterprise based in Haryana (address mentioned as at Sr. No. 1) Further, the billing will be done from Haryana.

Dated

Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

Dated

Signature with Seal of the Deponent (Bidder)

**Note:** Affidavit duly notarized in original shall submit in the Office of Purchase & Store, Shri Vishwakarma Skill University, Village-Dudhola, Palwal, Haryana on Technical Presentation day/date.



Affidavit regarding Seeking benefits/ concessions in past performance & Experience and Purchase Preference by Haryana based manufacturing Medium Enterprises

|| SPECIMEN AFFIDAVIT ||

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for ..... (Name of the Tender) dated ..... for quoting against the Tender as an owner/Director/Proprietor of M/s .....

I ..... S/o.....aged ..... residing at ..... Proprietor/Partner/Director of M/s..... do hereby solemnly affirm and declare that: -

1. My/our above noted enterprise M/s..... (Name & Address) has been issue Manufacturing Entrepreneurs Memorandum in Haryana by the District Industries Centre ..... under acknowledgement No.....of dated ..... (Self-certified copy of the same is attached as Annexure 'A' with this affidavit) and has been issued for manufacture of the following items in Category Medium Enterprise as under: -

- I. ....
II. ....
III. ....
V. ....

- 2. That the quoted item(s) in the tender .....is all of the quoted items for which my/our above noted enterprise has been issues Manufacturing Entrepreneurs Memorandum by the Industry Department Haryana as per details at para 1 above.
3. That my/our above-mentioned manufacturing Medium Enterprise meet all the remaining terms & conditions of the tender except past Performance & Past Experience.
4. That my first purchase order under this benefit/concession was issued by State Government Department/State Government Agency (name of Dept./Agency) ..... vide P.O. No. ....of dated ..... for the supply of ..... (name of the items/ good/ work/ services) was successfully complied by above mentioned Enterprises. A Self certified copy of the same is attached Annexure 'B' with this affidavit.
5. That in case the purchase Order of the quoted item is issued to me/us, it will not be outsourced or subcontracted to any other firm and the entire manufacturing of the order item sell be done in house by our Enterprise based in Haryana (address mentioned as at Sr. No. 1). Further, the billing will be done from Haryana.

Handwritten signatures in blue ink at the bottom of the page.



6. That we agree to the condition that this benefit/ concession to the Medium Enterprises is Valid for one year from the date of getting the first supply order under State Public Procurement.

Dated





Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

Dated

Signature with Seal of the Deponent (Bidder)

**Note:** Affidavit duly notarized in original shall submit in the Office of Purchase & Store, Shri Vishwakarma Skill University, Village-Dudhola, Palwal, Haryana on Technical Presentation day/date.



Affidavit regarding Seeking benefits/ concessions in past performance & Experience and Purchase Preference by Haryana based manufacturing/works/services Startups/First Generation Entrepreneurs

|| SPECIMEN AFFIDAVIT ||

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for .... (Name of the Tender) dated..... for quoting against the Tender as an owner/Director/Proprietor of M/s .....

I ..... S/o.....aged ..... residing at ..... Proprietor/Partner/Director of M/s..... do hereby solemnly affirm and declare that: -

1. My/our above noted enterprise M/s..... (Name & Address) has been issue Manufacturing Entrepreneurs Memorandum/Udyog Aadhaar Memorandum in Haryana by the District Industries Centre ..... under acknowledgement No. .... of dated ..... (Self-certified copy of the same is attached as Annexure 'A' with this affidavit) and has been issued for manufacture of the following items in Category Startups/First Generation Entrepreneurs (Please tick the either) as under: -

- I. ....
II. ....
III. ....
IV. ....

2. That the quoted item(s) in the tender .....is all of the quoted items for which my/our above noted enterprise has been issues Manufacturing Entrepreneurs Memorandum/ Udyog Aadhaar Memorandum by the Industry Department Haryana as per details at para 1 above.

3. That my/our above-mentioned manufacturing Startups/First Generation Entrepreneurs Enterprises fulfils meet all the remaining terms & conditions of the tender except turnover, past Performance & past Experience and fulfils either or both of the below mentioned eligibility criteria:

I. That my/our above-mentioned enterprise has been issued quality certification of ISI Mark/ISO/Ag. Mark/any other quality mark ..... (Please tick either of the option) by ..... (name of GOI/ State Govt. Agency/institution authorized by GOI/ State Govt.) on ..... and the same is valid from..... to.....in respect of item/good (give name of item/good) ..... mentioned in the tender (Self

Handwritten signatures in blue ink at the bottom of the page.



Certified copy of the relevant certificate is attached as Annexure 'B' with this affidavit)

*[Two large, handwritten blue scribbles or lines, possibly representing missing or redacted content.]*

*[Handwritten signatures and initials in blue ink:]*  
S2      Shil      Kimani      MR



## OR/AND

- II. That my/our above-mentioned enterprises has been registered with DGS&D, GOI/ NSIC/ Govt. of India Department/ State Govt. Department/Govt. of India Public Sector Undertaking (PSUs) or State Government Public Sector Undertakings (PSUs) **(Please tick one of the option as above)** in respect of Name of Item/goods/work/Services ..... (Name) as mentioned in the tender of the corresponding period of time of this tender. A self-certified copy of the same attached as **Annexure 'C'** with this affidavit.
4. That in case the purchase Order of the quoted item is issued to me/us, it will not be outsourced or subcontracted to any other firm and the entire manufacturing of the order items shall be done in house by our Enterprise based in Haryana (address mentioned as at Sr. No. 1) Further, the billing will be done from Haryana.

Dated

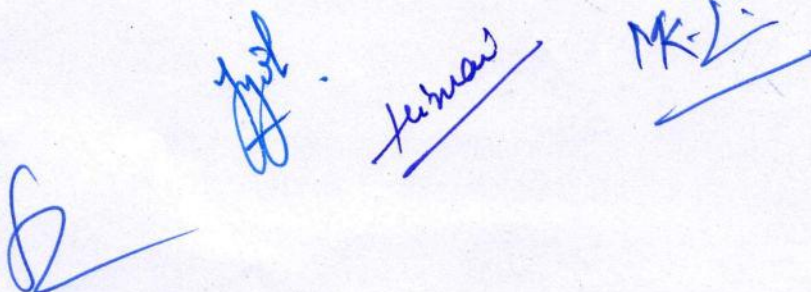
Signature with Seal of the Deponent (Bidder)

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

Dated

Signature with Seal of the Deponent (Bidder)

**Note:** Affidavit duly notarized in original shall submit in the Office of Purchase & Store, Shri Vishwakarma Skill University, Village-Dudhola, Palwal, Haryana on Technical Presentation day/date.





## ANNEXURE – XVI

### MODEL CLAUSE AND CERTIFICATE

#### Model Clauses for Tenders

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- II. "Bidder" (including the term 'tenderer', 'consultant', 'Vendor', 'Supplier' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this order means: -
  - a. An entity incorporated, established or registered in such a country; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country; or
  - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
  - d. An entity whose beneficial owner is situated in such a country; or
  - e. An Indian (or other) agent of such an entity; or
  - f. A natural person who is a citizen of such a county; or
  - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The beneficial owner for the purpose of (iii) above will be as under:
  1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation-

    - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company;
    - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
  2. In case of a partnership firm, the beneficial owner is the natural persons(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
  3. In case of an unincorporated association or body of individuals, the beneficial owner is



the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individual;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
  5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor or product origin from a country which shares a land border with India unless such contractor/manufacturer is registered with the Competent Authority.

#### Validity Registration:

In respect of tenders, registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance of order, registration shall not be relevant consideration during contract execution.

#### Model Certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

**Model Certificate for Tenders for Works involving possibility of Sub-contracting** "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

*h*      *Jul*      *Arinaw*      *MRZ*



(AN AGREEMENT BETWEEN SHRI VISHWAKARMA SKILL UNIVERSITY AND THE SUPPLIER) \*

Shri Vishwakarma Skill University (SVSU), Enacted under Government of Haryana Act No.25 of 2016 having its transit office at Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana represented through its authorized signatory ..... (Name of Officer), ..... (Designation of Officer) (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as SVSU or Owner or the First Party.

And

Firm Name..... having its office at ....., through its authorized signatory .....(Name & Post), (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as execution Manufacturers/Authorized Dealers/ Distributors/Agent or the Second Party.

Whereas SVSU has invited Tender No..... for ..... (Name of the Tender) dated.....and M/s .....(Firm Name) submitted its proposal in this regard. SVSU after considering its negotiation offer has decided to engage ..... (Firm Name) as executing agency for Tender No..... for ..... (Name of the Tender) dated .....

Firm Name... (execution Agency) is hereby agreed to take the Tender No. .... for ..... (Name of the Tender) at the quoted negotiation rates, terms and conditions contained the TENDER, Work Order/Purchase Order and duly communications of the above said work.

Now, therefore, in consideration of the mutual covenants herein contained, it is hereby agreed between the parties as follows: -

The agreement shall come into force immediately after signing of this agreement by both the parties and shall remain valid until the final completion of the job inclusive of warranty period or cancelled earlier by the Shri Vishwakarma Skill University, Haryana as per the time schedule prescribed in the tender document.

All the terms and conditions and Technical specifications contained in the Tender No. .... for ..... (Name of the Tender) dated .....

Handwritten signatures in blue ink: a stylized 'S', a signature starting with 'S', a signature starting with 'H', and a signature starting with 'M'.

.....shall be the part of this agreement.



*[Two large, curved blue lines, possibly representing a signature or a large mark.]*

*[Handwritten signatures in blue ink: a large stylized 'B', 'Jed', 'Feiman', and 'MKL' with a horizontal line underneath.]*



Firm Name..... (execution **Agency**) hereby declare that I shall remain bound and abide by the rates, terms and conditions and technical specifications of the aforesaid as well as TENDER, Work Order/Purchase Order and due communications of the above said work.

In Witness Whereof, the parties here to have caused this agreement to be signed in their respective names as of this day and year first above written.

**Signed by**

First Party: SVSU, Dudhola, Palwal

Second Party:

Signature with seal

Signature with seal

Date & Place

Date & Place

**In presence of (Witnesses)**

1.

1.

2.

2.

\*Note-This Contract is to be Signed on Rs. 100/- Non Judicial Stamp paper within 15 days after receiving of LOA/LOI by the bidder/supplier from buyer.

*[Handwritten signatures in blue ink]*