



LIAQUAT UNIVERSITY

OFFICE OF THE VICE-CHANCELLOR
UNIVERSITY OF SINDH
Khanpur Road, Talwar, P.O. Box - 122
Madrassa Road, Jamshoro

Purchase & Store Section

No. LUMHS/PSS/593
Dated: 16-03-2016.

Notice Inviting Tender

Tender invited under sealed cover from authorized Dealers / Distributors registered with GST & Income Tax for purchase & supply of Category A) Office Appliance / Furniture / Lab Equipment for Institute of Physiotherapy & Rehabilitation Sciences, LUMHS, Jamshoro Category B) Medical Books for Institute, Departments & Libraries, LUMHS, Jamshoro.

Category	Description	Method of Procurement	Purchasing / Issuing of tender documents Day, Date & Time	Last Purchasing day/ date & Time of tender documents.	Submission of tender bid day, date & time	Opening day, date and time of tender.	Tender Fee (Non-Refundable)
A	Office Appliance / Furniture / Lab Equipment	Single stage two envelope Bidding procedure	Friday, 18-03-2016 9:00am to 3:00pm.	Friday, 04-04-2016 11:00am.	Tuesday, 05-04-2016 11:30am	Friday, 05-04-2016 12:00 Noon	Rs. 3,000/-
B	Medical Books	Single stage two envelope Bidding procedure				Friday, 05-04-2016 01:00pm.	Rs. 1,000/-

Note:

Specifications are mentioned in the tender documents. Prescribed tender proforma along with terms & conditions can be downloaded from SPPRA website i.e. www.sppra.sindh.gov.pk / LUMHS website i.e. www.lumhs.edu.pk on payment of Rs. 1,000/- (Rupees three thousand only) for category A & Rs. 1,000/- (Rupees one thousand only) for category B in the shape of Pay Order / D.D (Non-refundable) in favour of Vice-Chancellor, Liaquat University of Medical & Health Sciences, Jamshoro attached with tender form within Due Date along with following documents:

1. Latest Income Certificate (NIN).
2. Valid GST Registration Certificate.
3. Detailed Portfolio of Company.
4. Certified copy of Authorized Dealership Certificate.

• **FOR CATEGORY A & B:** The bidding shall be on single stage two envelope procedure, 1st envelope shall contain Technical Proposals DD Pay order Rs. 3,000/- (Rupees three thousand only) for Category A & Rs. 1,000/- (Rupees one thousand only) for Category B (Non-Refundable) & be clearly marked as technical proposals.

• 2nd envelope should contain financial proposals (rates) on CNF Basis for Category A & in Pakistan Rupees for category B, along with the security deposit 2% of quoted rates in the shape of pay order demand (and refundable to unsuccessful bidders) the envelope be clearly marked as financial proposals.

• Both envelopes should be sealed separately and placed in the third envelope. The name of the bidder be clearly marked on all envelopes.

Tender can be downloaded from SPPRA, LUMHS Website or purchased from Purchase & Store Section, LUMHS, Jamshoro from Friday, 18-03-2016 to Tuesday, 05-04-2016 (up to 11am) during office hours.

• Both categories (A&B) tender should be dropped in the tender box on Tuesday, 05-04-2016 before 11:30am and Proposals of the bids shall be opened publicly on same day in the presence of bidders or their nominated representatives, who wish to attend for Category A at 12:00 Noon & Category B at 01:00pm.

• After the evaluation & approval of the technical proposal by technical committee on the basis of the documents submitted, nature of the equipment, machine / tool, samples described in the annexure and instrumentations, the bidders shall at a time with the procurement Commission (90 days publicly) open the financial proposals of the bidders accepted publicly on the date and time, communicated later by this university to the technically approved bidders. Unsuccessful proposals if not found technically acceptable shall be returned with an opening financial proposal to the respective bidders.

• The Contract Awarding Committee may increase / delete any item or decrease or increase quantity or number of items as per SPPRA rules. Tender who do not fulfill the terms and conditions will not be entertained. The procuring agency may reject all or any bids subject to the relevant provisions of SPPRA Rules.

• Unsuccessful / failed/black listed firms / suppliers shall not be entertained.

• If on the tender date is a scheduled day due to unscheduled holiday then the same shall be postponed & opened on next working day, the other terms and conditions of the tender shall however remain unchanged.

Chairman,
Central Purchase Committee,
LUMHS, Jamshoro.

22/09/15
15/7/15



LIAQUAT UNIVERSITY
OF MEDICAL & HEALTH SCIENCES
JAMSHORO, SINDH, PAKISTAN
Web Site: www.lumhs.edu.pk E-mail: register@lumhs.edu.pk
Tele: # +92-22-9213305 Fax: # +92-22-9213306

Doc #: LUMHS/REGI-28280/
Issue Date: 20/9/2015

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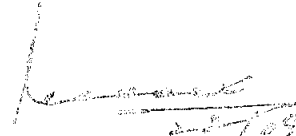
ORDER TO CONSTITUTION

ORDER

In supersession of all previous orders, the Vice-Chancellor has been pleased to re-constitute Central Purchase Committee of the University, comprising following members, on behalf of the Syndicate, with immediate effect, till further orders.

- | | | |
|----|--|----------|
| 1. | Prof. Muhammad Yousuf Memon
Director Academics | Chairman |
| 2. | Ms. Hina Talpur
Director Finance | Member |
| 3. | Mr. Asif Pervaiz Khoro
External Member from University of Sindh | Member |

(Co-opted members will be incorporated from the concerned department/project for which the purchase is made and in case of sophisticated stuff any technical expert from outside organization would be taken for technical assistance)


(DR. SAJID ALI PERVAIZ)
REGISTRAR

LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCES, JAMSHORO

Copy to the:-

1. All concerned
2. Director Finance.
3. Project Director (E/W)
4. Director, ICT, University of Sindh, Jamshoro
5. Mr. Asif Pervaiz Khoro, University of Sindh, Jamshoro.
6. Incharge, Purchase & Store Section
7. Resident Auditor.
8. Deputy Registrar (Acad)

Copy for information to the:-

1. P.S. to Vice-Chancellor



LIAQUAT UNIVERSITY
OF MEDICAL & HEALTH SCIENCES
JAMSHORO, SINDH, PAKISTAN
Web Site: www.lumhs.edu.pk, E-mail: registrar@lumhs.edu.pk
Tele: # +92-22-9213305, Fax: # +92-22-9213306

Doc #: LUMHS/REGI-28294/1
Issue Date 22/07/2015
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ORDER

"SAY NO TO CORRUPTION"

In partial modification of this University Order No.LUMHS/REG/-13904/13, dated 05-05-2015, the Vice Chancellor, has been pleased to re-constitute a Complaint Redressal Committee consisting of following officers to address the complaints of bidders emerging during the procurement process in accordance with Rule-31 of Sindh Public Procurement Rules 2010 (copy enclosed), with immediate effect, till further orders.

1. Prof. Ashraf Ali Khaskheli
Dean, Faculty of Basic Medical Sciences,
LUMHS, Jamshoro
2. Mr. Asif Ali Abbasi
Deputy Director Finance
LUMHS, Jamshoro
3. Mr. Abdul Ghafoor Kandhir,
Deputy Director Procurement,
Project Directorate of Mehran University of
Engineering & Technology,
Jamshoro.

Encls: as above:


(DR. BUK ALI PITAFI)
REGISTRAR

LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCES, JAMSHORO

C.C to the:-

1. Registrar, Mehran University of Engineering & Technology, Jamshoro.
2. Chairman, Central Purchase Committee.
3. Incharge, Purchase & Store Section
4. Resident Auditor
5. All Concerned

Copy for information to the:-

1. P.S. to Vice-Chancellor.





**LIAQUAT UNIVERSITY OF MEDICAL & HEALTHS
SCIENCES JAMSHORO**

BIDDING DOCUMENTS

FOR

**Purchase & Supply of A) Office Appliance / Furniture / Lab Equipment
for Institute of Physiotherapy & Rehabilitation Sciences, LUMHS,
Jamshoro B) Medical Books for Institutes, Departments & Libraries,
LUMHS, Jamshoro.**

PARTONE(FIXED)

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

Terms and conditions for (both categories)

A) Office Appliance / Furniture / Lab Equipment

for Institute of Physiotherapy & Rehabilitation Sciences, LUMHS.

Jamshoro

B) Medical Books

for Institutes, Departments & Libraries, LUMHS, Jamshoro.

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Part One - Section I.
Instructions to Bidders

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Instructions to Bidders

A. Introduction

1. Source of Funds

- 1.1 The Procuring agency has received /applied for loan/grant/federal/provincial/local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project/schemes specified in the bidding data and it is intended that part of the proceeds of this loan/grant/funds/will be applied to eligible payments under the contract for which these bidding documents are issued.
- 1.2 Payment by the Fund will be made only at the request of the Procuring agency and upon approval by the Government of Sindh and incase of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibits a with drawl from the allocated fund account forth purpose of any payment to person so entities, or for any import of goods, if such payment or import, to the knowledge of the Federal Government/ Sindh Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible source as defined in the SPP Rules, 2010 and its Bidding Documents except as provided hereinafter.
- 2.2 The bidder must possess valid authorization from foreign principal / manufacturer and in case of manufacture they should have a documentary proof to the effect that they are the original manufacture of the required goods.
- 2.3 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
- 2.4 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
- 2.5 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with sub clause of 35 (1) of SPPRA Rules 2010.
- 2.6 Bidder should have minimum ten (10) years experience in supply in Pakistan.
- 2.7 Bidder must have trained person including application to perform including application to perform experiment at sites for minimum five (05) years.
- 2.8 Any offer not received as per terms and conditions of the bidding documents is liable to be ignored. No offer shall be considered if:-
1. Received from earnest money from any firm.
 2. It is received after the time and date fixed for its receipt.
 3. The tender is unsigned.
 4. the offer is ambiguous
 5. the offer is conditional.
 6. the offer is from a firm blacklisted, suspended or removed from the approved list.
 7. The offer is received by telegram/Fax.
 8. Offer received with shorter validity than required in the tender enquiry.
 9. The offer is for store not conforming to specification indicated in the tender enquiry No counter offer will be accepted.

3. Eligible Goods and Services

3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules, 2010 and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.

3.2 For the purpose of this clause (a) the term "Good" includes any goods that are the subject of this limitation for bids and (b) the term services includes related services such as transportation insurance, after sale services spare parts availability etc.

3.3 In case of imported good, Manufacturer and product should be ISO Certified.

4. Cost of Bidding

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, here in after referred to as "the Procuring agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

The Bidder must quote all none basis for each package specification.

5. Content of Bidding Documents

5.1 The bidding documents include:

- (a) Instructions to Bidders (ITB)
- (b) Bid Data Sheet
- (c) General Conditions of Contract (GCC)
- (d) Special Conditions of Contract (SCC)
- (e) Schedule of Requirements
- (f) Technical Specifications
- (g) Bid Form and Price Schedules
- (h) Bid Security Form
- (i) Contract Form
- (j) Performance Security Form
- (k) Manufacturer's Authorization Form
- (l) Detail of Technical Staff.
- (m) Financial standings/obligation/GST/Income Tax

5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the

rejection of its bid.

- 6. Clarification of Bidding Documents** 6.1 A Prospective Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing. The Procuring agency will respond in writing to any request for clarification of the bidding documents which it receives no later than ten (10) working days prior to the dead line for the submission of bids prescribed in the Invitation to Bids. Written copies of the Procuring agency's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.
- 7. Amendment of Bidding Documents** 7.1 At any time prior to the dead line for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by a interested Bidder, may modify the bidding documents by amendment.
- 7.2 All Prospective bidders that have received the bidding documents shall be notified of the amendment in writing, and will be binding on them.
- 7.3 In order to allow Prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids. Amendment notice to that effect shall be communicated in the same manner as the original invitation to bid.

C. Preparation of Bids

- 8. Language of Bid** 8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in english, in which case, for purposes of interpretation of the Bid, the translation shall govern.
- 9. Documents Comprising the Bid** 9.1 The bid prepared by the Bidder shall comprise the following components:
- (a) A Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12;
 - (b) Documentary evidence established in accordance with ITB

Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;

(c) documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and

(d) bid security furnished in accordance with ITB Clause 15.

10. Bid Form

10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

11. Bid Prices

11.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.

11.2 Form for price schedule is to be filled in very carefully and should be typed. Any alteration / correction must be initiated. Every page is to be signed and stamped at the bottom. Serial number/bid number of the quoted item should be highlighted.

11.3 The bidder should quote the prices of goods according to the technical specification. The specification of goods different from the demand of enquiry, shall straightway be rejected.

11.4 The bidder is required to offer competitive price. All prices must include relevant taxes and duties where applicable. If there is no mention of taxes, the offered / quoted price shall be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the procuring agency.

11.5 Prices offered should be for the entire quantity demanded. partial quantity offers shall straight way be rejected. Conditional offer shall also be considered as non-responsive bidder

11.6 while tendering your quotation, the present trend / inflation in the rate of goods and services in the market should be kept in mind. No request in price due to market fluctuation in the cost of goods and services shall be entered after the bid has been submitted.

12. Bid Currencies

12.1 Prices shall be quoted in Pak Rupees in case of free delivery basis (DDP) delivered duty paid.

12.2 State bank of Pakistan foreign currency selling rate will be considered from the date of opening of financial bid (import cases)

13. Documents Establishing Bidder's

13.1 Pursue an to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

Eligibility and Qualification

13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.

13.3 The documentary evidence of the Bidder's qualifications to Perform the contract if its bid is accepted shall establish to the Procuring agency's satisfaction:

(a) That, in the case of a Bidder offer into supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country:

(b) That the Bidder has the financial, technical, and production capability necessary to perform the contract;

(c) That, in the case of a Bidder not doing business with in the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

(d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.

(e) The procuring agency shall disqualify a bidder if it finds at any time that the bid submitted by, him concerning his qualification as supplier was false and materially inaccurate or incomplete.

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.

14.2. The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:

(a) A detailed description of the essential technical and

performance characteristics of the goods;

- (b) A list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and
- (c) An item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall not that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15. Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
- 15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7. The Bid security 5% of quoted rates in the shape of Pay order / demand draft (refundable to un-successful bidders) in the name of Vice Chancellor, LUMHS, Jamshoro.
- 15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding document so far as other form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or
 - (b) irrevocable en-cashable on-demand Bank call-deposit.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as non responsive, pursuant to ITB Clause 24.

15.5 Un successful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty(30) days after the expiration of the period of bid validity prescribed by the Procuring agency pursuant to ITB Clause 16.

15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.

15.7 The bid security may be forfeited:

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or

(b) in the case of a successful Bidder, if the Bidder fails:

(i) to sign the contract in accordance with ITB Clause 32;

or

(ii) to furnish performance security in accordance with ITB Clause 33.

16. Period of Validity of Bids

16.1 Bid shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as non responsive.

16.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

17. Format and Signing of Bid

17.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.

17.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a

person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except forum-amended printed literature, shall be initialed by the person or persons signing the bid.

17.3 Any interlineations, erasures, or over writing shall be valid only if they are initialed by the person or persons signing the bid.

17.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18. Sealing and Marking of Bids

18.1 The Bidder shall seal the original and each copy of the bidding separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

18.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring agency at the address given in the Bid Data Sheet; and

(b) bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet and a statement: "DONOTOPEN BEFORE." to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.

18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".

18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid's misplacement or premature opening.

19. Deadline for Submission of Bids

19.1 Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 no later than the time and date specified in the Bid Data Sheet.

19.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and

Obligations of the Procuring agency and bidders previously subject to the dead line will thereafter be subject to the deadline as extended.

20. Late Bids

20.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

21. Modification and Withdrawal of Bids

21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the dead line prescribed for submission of bids.

21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18. by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

21.3 No bid may be modified after the dead line for submission of bids.

21.4 No bid may be withdrawn in the interval between the dead line for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 15.7.

E. Opening and Evaluation of Bids

22. Opening of Bids by the Procuring agency

22.1 The Procuring agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.

22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.

- 22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.
- 22.4 The Procuring agency will prepare minutes of the bid opening.
- 23. Clarification of Bids**
- 23.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.
- 24. Preliminary Examination**
- 24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 24.3 The Procuring agency may waive any minor informality, non-conformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsive assist to be based on the contents of the bid itself without recourse to extrinsic evidence.

25. Evaluation and Comparison of Bids

- 24.5 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
- 25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
- 25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing duties and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:
- (a) Incidental costs
 - (b) Delivery schedule offered in the bid;
 - (c) Deviations in payment schedule from that specified in the Special Conditions of Contract;
 - (d) The cost of components, mandatory spare parts, and service; (e) the availability Procuring agency of spare parts and after- sales services for the equipment offered in the bid;
 - (f) The projected operation and maintenance costs during the life of the equipment;
 - (g) The performance and productivity of the equipment offered; and / or
 - (h) Other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.
- 25.4 For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:
- (a) Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at the final destination.
 - (b) Delivery Schedule.
 - (i) – The Procuring agency enquires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements which will be treated as the base, a delivery "adjustment" will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery.

Or

- (ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as non responsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

Or

- (iii) The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price
A factor equal to a percentage, specified in the Bid Data Sheet, of DDP price per week of variation from the specified delivery schedule.

(c) *Deviation in payment schedule.*

- (i) Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The Procuring agency may consider the alternative payment schedule offered by the selected Bidder.

Or

- (ii) The SCC stipulates the payment schedule offered by The Procuring agency. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring agency, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in this invitation, at the rate per annum specified in the Bid Data Sheet.

(d) *Cost of spare parts.*

- (i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the Bid Data Sheet, is annexed to the

Technical Specifications. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.

Or

- (ii) The Procuring agency will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the Bid Data Sheet. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price.

Or

- (iii) The Procuring agency will estimate the cost of spare parts usage in the initial period of operation specified in the Bid Data Sheet, based on information furnished by each Bidder, as well as on past experience of the Procuring agency or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.

- (e) *Spare parts and after sales service facilities in the Procuring agency's country.*

The cost to the Procuring agency of establishing the minimum service facilities and parts inventories, as outlined in the Bid Data Sheet or elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.

- (f) *Operating and maintenance costs.*

Since the operating and maintenance costs of the goods under procurement form a major part of the lifecycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the Bid Data Sheet or in the Technical Specifications.

- (g) *Performance and productivity of the equipment.*

- (i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below then or in of 100, an adjustment for an amount specified in the Bid Data Sheet will be added to the bid price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

Or

(ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

(h) *Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.*

The relevant evaluation method shall be detailed in the Bid Data Sheet and/or in the Technical Specifications.

Alternative

25.4 Merit Point System:

The following merit point system for weighing evaluation Factors Can be applied if none of the evaluation methods listed in 25.4 above has been retained in the Bid Data Sheet. The number of points allocated to each factor shall be specified in the Bid Data Sheet.

[In the Bid Data Sheet, choose from the range of]

Evaluated price of the goods	60 to 90
Cost of common list spare parts	0 to 20
Technical features, and maintenance and operating costs	0 to 20
Availability of service and spare parts	0 to 20
Standardization	0 to 20
Total	100

The bids coring the highest number of points will be deemed to be the lowest evaluated bid.

26. Contacting the Procuring agency

26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.

26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

F. Award of Contract

27. Post-qualification

27.1 In the absence of pre qualification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.

27.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.

27.3 An affirmative determination will be a prerequisite for a ward of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

28. Award Criteria

28.1 Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

- 29. Procuring agency's Right to Vary Quantities at Time of Award**
- 29.1 The Procuring agency reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or terms and conditions.
- 30. Procuring agency's Right to Accept any Bid and to Reject any or All Bids**
- 30.1 The Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without there by incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring agency's action.
- 31. Notification of Award**
- 31.1 Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
- 31.2 The notification of award will constitute the formation of the Contract.
- 31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.
- 32. Signing of Contract**
- 32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 32.2 Within thirty(30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.
- 33 Performance Security**
- 33.1 With in Five (05) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annul mentor of the award and for feature of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

34. Corrupt or Fraudulent Practices

34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2010 and Rules made there under:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) "fraudulent practice" means a misrepresentation of acts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Procuring agency of the benefits of free and open competition;

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.

34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

Part One - Section II.
General Conditions of Contract

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General Conditions of Contract

- 1. Definitions**
- 1.1 In this Contract, the following terms shall be interpreted as indicated:
- (a) "The Contract" means the agreement entered in to between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents in corporate by reference therein.
 - (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
 - (c) "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring agency under the Contract.
 - (d) "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
 - (e) "GCC" means the General Conditions of Contract contained in this section.
 - (f) "SCC" means the Special Conditions of Contract.
 - (g) "The Procuring agency" means the organization purchase the Goods, as named in SC SCC.
 - (h) "The Procuring agency's country" is the country named in SCC.
 - (i) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
 - (j) "The Project Site," where applicable, means the place or places named in SCC.
 - (k) "Day" means calendar day.
- 2. Application**
- 2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

- 3. Country of Origin**
- 3.1 All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules and further elaborated in the SCC.
- 3.2 For purposes of this Clause, "origin" means the place where the Goods were mined, grown, or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of Goods and Services is distinct from the nationality of the Supplier.
- 4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.
- 5. Use of Contract Documents and Information; Inspection and Audit by the Government**
- 5.1 The Supplier shall not, without the Procuring agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The Supplier shall not, without the Procuring agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.
- 5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring agency and shall be returned (all copies) to the Procuring agency on completion of the Supplier's performance under the Contract if so required by the Procuring agency.

- 5.4 The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.
- 6. Patent Rights** 6.1 The Supplier shall indemnify the Procuring agency against all third- party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring agency's country.
- 7. Performance Security** 7.1 Within five (05) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 7.3 The performance security shall be denominated in the currency of the Contract acceptable to the Procuring agency and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or
 - (b) a cashier's or certified check.
- 7.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than sixty (60) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.
- 8. Inspections and Tests** 8.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at

The Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring agency.

8.3 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.

8.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin.

8.5 Nothing in GCC clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the nature of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

10. Delivery and Documents

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

11. Insurance

11.1 The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility.

12. .

12.1 The Supplier is required under the Contact to transport the Goods to a specified place of destination within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.

13. Incidental Services

13.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2 The supplier shall be required to provide the incidental services has specified in SCC and the cost of which should be included in the total bid price.

14. Spare Parts

14.1 As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 15.2 A warranty of Two Years will be provided free of cost including parts repair and replacement however incase of high tech equipment if mentioned in the specification the warranty shall be five years free service and parts at the installation site.
- 15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Up on receipt of such notice, the Supplier shall, with in the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s)

Within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.

16. Payment

16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.

16.4 The currency of payment is Pak Rupees which will be paid after installation and satisfactory report by inspection committee for duty delivered pay free delivery at the consignee end. In case of import cases pay will be made 100% via establishing L.C at sight and receiving shipping doc / bill of lading, inspection, certificate of the manufacturer's country of origin, compliance of international standards of quality.

17. Prices

17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid and shall remain the same till expiry of original bids validity period provided the procuring agencies bid validity extension.

18. Change Orders

18.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

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

18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be

Made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring agency's change order.

19. Contract Amendments

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.

21. Subcontracts

21.1 The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Sub contracts must comply with the provisions of GCC Clause 3.

22. Delays in the Supplier's Performance

22.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements.

22.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

23. Liquidated

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or

Damages

all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages leveled at the rate of two percent (2%) per month or a fraction thereof subject to a maximum of ten percent (10%) of the P.O / contract price / a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

24.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

“Fraudulent practice” means a misrepresentation of facts in order to influence a procurement processor the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

24.2 In the event the Procuring agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those

undelivered, and the Supplier shall be liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

- 25. Force Majeure**
- 25.1 Notwithstanding the provisions of GCC Clauses 22,23, and 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 25.2 For purposes of this clause, " Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 26. Termination for Insolvency**
- 26.1 The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bank corrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring agency.
- 27. Termination for Convenience**
- 27.1 The Procuring agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- 27.2 The Goods that are complete and ready for shipment within thirty(30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring agency at the

Contract terms and prices. For the remaining Goods, the Procuring agency may elect:

- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
- (b) To cancel their main demand pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

28. Resolution of Disputes

28.1 The Procuring agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

29. Governing Language

29.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1 The Contract shall be interpreted in accordance with the laws of the Procuring agency's country, unless otherwise specified in SCC.

31. Notices

31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.1 Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.

All taxes are applicable as per government .

33. Turnkey basis

- The Purchaser will evaluate and compare bids on turnkey basis design/equipment, installation, commission and training and services. Equipment will purchase on the package basis.
- Equipment must be quoted with all the standard accessories.
- UPS/Power protection for the equipment shall be incorporate in the system or must be quoted separately.

(For complete accessories of equipment each section must complete quoted)

CONTRACT PERFORMANCE BOND

(Bank Guarantee on stamp paper at the rate prescribed by Government of Pakistan)

Guarantee No. _____

Executed on _____

Expiry Date _____

Letter by the Guarantor (Bank) to the Employer (University)

Name of Guarantor (Bank) with Address:

Name of Principal (Contractor) with address:

Penal Sum of Security (Bond), (in words and figures)

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the Tender Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal (Contractor) we, the Guarantor above named, are held and firmly bound unto the Chairman, CPC, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES, Jamshoro, Sindh, acting through the Chairman, Central Purchase Committee LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES, Jamshoro {hereinafter called the Employer (University)} in the penal sum of amount stated above for the payment of which sum well and truly to be made to the said Employer (University), we bind ourselves, our heirs, executors, administrators and successors, jointly and severely, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal (Contractor) has accepted the Employer's (University's) above said Letter of Acceptance

for the supply, installation, putting into operation and demonstration of Equipment for Category A. Office Appliance / Furniture / Lab Equipment B. Library Books.

SINDH.

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer (University), with or without notice to the Guarantor, which notice is hereby waived and shall also well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till the expiry of the guaranty period as per Clause of the Conditions of Contract.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer (University) without delay upon the Employer's (University's) first written demand without cavil or arguments and without requiring the Employer (University) to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's (University's) written declaration that the Principal (Contractor) has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to the Employer's (University's) designated Bank and Account Number.

PROVIDED ALSO THAT the Employer (University) shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling the said obligations, and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer (University) forthwith and without any reference to the Principal (Contractor) or any other person.

IN WITNESS WHEREOF, the above bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body

Guarantor (Bank)

Witness:

1. _____
(Signature)

1. Signature _____

Corporate Seal)

2. Name _____

2. _____
(Signature)

3. Title _____

(Name, Title, Address)

(Corporate Guarantor Seal)

ARTICLES OF AGREEMENT

This Agreement made this _____ day of _____ 2015, by and between the Chairman, CPC, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES, located at Jamshoro, Sindh, including his successors in office and Assignees / Agents, acting through the Chairman, Central Purchase Committee LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES, hereinafter called the "University ", of the one part,

And

of

(name and designation of the authorized person)

, located at

hereinafter called the "Contractor " which expression shall include their successors, legal representatives of the second part.

Whereas the **University** Requires Office Appliance / Furniture / Lab Equipment & Library Books

at Jamshoro. Whereas the **Contractor** has agreed to supply, install, put into operation and demonstrate the working of the said work valued at Rs.

_____ (amount in figures and words)
in the period of _____ months, subject to the terms and conditions set forth, hereinafter, which have been accepted by the **Contractor**

Now this Agreement witnesses as follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the **Conditions of Contract** hereinafter referred to.
2. The following documents which, for the purpose of identification, have been signed by _____ on behalf of the **Contractor**, and by _____ (name and designation of the authorized person) _____ on behalf of the **University**, all of _____ (name and designation of the authorized person) this shall be deemed to form and be read as a part of this Agreement viz.:
 - a) Articles of Agreement;
 - b) Instructions to Tenderer;
 - c) Conditions of Contract;
 - d) Contractor's Offer including the relevant correspondence prior to signing of this Agreement with all Annexure duly filled in;
 - e) The specifications of the equipment and other related items;
 - f) Bill of Quantity with prices.
3. In consideration of the payment to be made to the Contractor, the **Contractor** hereby **covenants** with the University **to supply**, deliver, install, put into operation and demonstrate the working of the items in conformity in all respects of the Contract.
4. The **University** hereby **covenants to pay** the Contractor in consideration of the supply, delivery, installation, putting into operation and demonstration of the working of the items, the contract price in the manner prescribed by the Contract and approved by the University.

In Witness Whereof the parties have hereunto set their respective hands and seals, the day, month and year first above written.

Vice Chancellor LUMHS

Signature _____

Name: _____

WITNESSES:

University Witness No.1: Signature: _____

Name: _____

Designation: _____

University Witness No.2: Signature: _____

Name: _____

Designation: _____

Contractor

Signature _____

Name: _____

Contractor's Witness No.1: Signature: _____

Name: _____

Designation: _____

Contractor's Witness No.2: Signature: _____

Name: _____

Designation: _____

LUMHS, Jamshoro



- Form – 1. - Application Letter
- Form-2 - General information of FIRM
- Form-3 - list of similar Projects/Procurements
- Form-4 - Details of Technical Staff
- Form-5 - Financial Standings/Obligations/GST/Income Tax.

LUMHS, Jamshoro



Form 1

Letter of Application

Registered Business Name:

Registered Business Address:

Telephone & FAX:

To: Chairman, Central Purchase Committee
LUMHS, Jamshoro.

Sir,

I/We hereby apply for Procurement Services at LUMHS, Jamshoro as a registered Firm/Individual.

I/We authorize LUMHS or its authorized representatives to conduct any investigation to verify the statements, documents and information submitted and to clarify the financial and technical aspects of this application, from any person, bank, department, agency or firm.

The names and positions of the contact persons at our firm, who may be contacted for further information, if required are as follows:

Abc

Xyz

LUMHS, Jamshoro



I/We hereby declare that

The statements made and the information provided in the application are complete, true and correct in every detail,

This firm has never been black listed by any Government / Autonomous bodies or private company or corporation and not involved in any litigation, arbitration with any client.

Faithfully

Authorized Representative of applicant

Official seal

Dated

LUMHS, Jamshoro



Form – 2

General information

Name of Company

Type of company

Status of company

Year of incorporation/establishment

Head office address

Telephone Nos

Fax Nos

E-mail address

Branch offices

Telephone No.

E-mail address

Attachments required

Attested copies of registration and ownership certificates of the FIRM

Detailed company profile must include main line of business, response time & after sale support statement, major client list, affiliation with international vendors and available resources for project execution.

--	--	--	--	--	--	--

Attach Brief Profiles of Project Managers and other Technical Staff.

Name/Designation/Signature of
Authorized Person.



Form – 5

Financial Standing / Registration/Pre-qualification/Obligation/GST/bank statement/Audited accounts all documentary evidences.

Annual Turnover of the last 3 (years)

Applicants are required to submit the following along with their applications

GST/INCOME TAX:

Registration Nos. along with copy of registration certificates.

Registration:

Registration details with Govt/Semi-Gove/Private/Autonomous bodies.

Obligations:

List of litigation or arbitration cases, if any, with result thereof, if finalized.

Workshop or Maintenance facilities:

The Applicant has got proper workshop/Maintenance facilities along with human resource available, the location must be specified for inspection of necessary.

Name/Designation/Signature of

Authorized Person



Technical Evaluation Criterion:

- | | |
|--|----------|
| • Company profile (year of in-corporation/registration): | 10 marks |
| • Financial Standing | 05 marks |
| • Similar nature projects experience | 30 marks |
| • Key person qualification and experience | 05 marks |
| • Availability of workshop | 10 marks |

Application with required documents shall be evaluated by Technical Evaluation Committee on the score obtained and firms obtaining above 70% & above shall be qualified for (Category A) Office Appliance / Furniture / Lab Equipment and firms obtaining 50% for (Category B) library Books.

BID EVALUATION CRITERIA

Contractor / (s) / Firm / (s) / Distributor / (s) / Supplier / (s) must to have / possess eligibility criteria as mentioned below without declaration of black listing by relevant council(**enclose valid / renewal registration certificate**).

S#:	DESCRIPTION	MARKS TO BE ASSIGNED	OBTAINED MARKS	REMARKS
01	Company Registration Certificate	5		
02	NTN Certificate	5		
03	General Sales Tax Registration Certificate (GST)	5		
04	Registered with Pakistan Engineering Council (If Applicable) or other Licensee	5		
05	Company Profile containing Introduction, date of establishment, experience (National / International Level) details of supplies to various Institutions / Labs of Physiotherapy in Pakistan / International Level including number of supplied equipment	20		
06	Current status of Company as compare to other companies in Pakistan / Internationally	5		
07	Professional Experience of Technical Staff as per required / relevant education regarding installation / repairing / service of instrument / equipment	20		
08	Current Financial Position (Bank statements & Audit Reports)	5		
09	Availability of Service Centre / (s)	5		
10	Provincial Level (Sindh)	5		
11	National Level	5		
12	Certificate of Authorized Physiotherapy Equipment Manufactures / Distributors / Suppliers	15		
TOTAL MARKS		100		



LIAQUAT UNIVERSITY

OF MEDICAL & HEALTH SCIENCES JAMSHORO, SINDH

Purchase & Store Section

Telephone: + 9213350, Exch.771240, Ext. + 122

Email: storesectionlumhs@yahoo.com

Web Site: www.lumhs.edu.pk

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CATEGORY A

LIST OF EQUIPMENT FOR INSTITUTE OF PHYSIOTHERAPY & REHABILITATION SCIENCES, LUMHS, JAMSHORO.

ESTABLISHMENT OF KINESIOLOGY AND BIOMECHANICS LABS:

S.NO.	NAME OF EQUIPMENT	QUANTITY	UNIT RATE	TOTAL AMOUNT
01	Goniometers	10		
02	Posture Assessment Grid	02		
03	Hand Grip Dynameter	02		
04	Inclinometer	02		
05	Measuring Tapes	10		
06	Electronic Weight Scale	05		
07	Traction Table and Unit	01		
08	Crutches, Stick and Frame Wheel Chair	01 One each		
09	Couch / Treatment Table	05		
10	Trampoline	01		

ESTABLISHMENT OF THERAPEUTIC EXERCISE AND MANUAL THERAPY LAB:

S.NO.	NAME OF EQUIPMENT	QUANTITY	UNIT RATE	TOTAL AMOUNT
01	Massage Table	05		
02	Thera Bands Different Loads	02 Sets		
03	Ankie and Wrist Loads	01 Set		
04	Thera Tubes	02 Sets		
05	Balance Boards	01		
06	Wobble Boards	01		
07	Exercise Therapy Mat	04		
08	Gym Bail	01		

09	Bolster and wedges	02 Sets			
10	Kinesiology Tape	20 Rolls			
11	Non-Strechable Tape	20 sets			
12	Transfer Boards	04			
13	Transfer Belt	04			
14	Tread Mil	01			
15	Manual Therapy Belt	04			
16	Hydraulic Stool	25			

ESTABLISHMENT OF PHYSICAL AGENTS ELECTRO LAB:

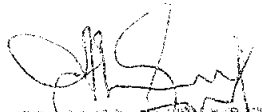
S.NO.	NAME OF EQUIPMENT	QUANTITY	UNIT RATE	TOTAL AMOUNT
01	Ultra Sound	01		
02	DI2 Stimulator	02		
03	Short Wave	01		
04	TENS 120Z	04		
05	Interferential Unit	01		
06	Infra-rad Lamp	02		
07	Ultra violet Lamp	02		
08	Laser	01		

ESTABLISHMENT OF PROSTHETICS AND ORTHODONTICS LAB:

S.NO.	NAME OF EQUIPMENT	QUANTITY	UNIT RATE	TOTAL AMOUNT
01	Orthopedic Prosthetics	01 Set each		
02	Artificial Limb U/E, L/E	01		
03	Orthosis of U/E, L/E	01		
04	Orthosis of Spine	01		
05	Special Orthotics Devices	01		

**SPECIFICATIONS OF EQUIPMENTS, FURNITURE, MULTIMEDIA
AND COMPUTER ACCESSORIES**

S #	ITEM	SPECIFICATIONS	QUANTITY
01	ROSTRUM	SIZE 3X3.5 WITH MICROPHONES AND SPEAKERS	01
02	A.C SPLIT	1.5 TON	05
03	STUDENT CHAIRS	GI PIPE FRAME AND WOODEN BACK AND SEAT FIX WITH SCREW WITH WRITING PAD	50
04	PHOTOCOPIER MACHINE	DIGITAL PHOTO COPIER (HEAVY DUTY MACHINE 60 CPM)	01
05	COMPUTER UPS DESCRIPTION	CAPACITY: 1500 VA BACKUP TIME: MIN 6-30 MINS WITH 2 PC+ 2 X15" MONITOR	10
06	MULTIMEDIA PROJECTORS	4000 LUMENS	02
07	COMPUTERS COMPLETE SET WITH LED	Intel Core i7 with 4GB Ram and 1TB HDD	03
08	PROJECTOR SCREEN	10FT X 8FT MANUAL PROJECT SCREEN	04
09	MULTIMEDIA TABLE	HEIGHT 3 FT LENGTH 2FT X 2 ½ FT WIDTH 2X2 FT WITH BACK HOLES FOR FIXATION OF POWER / DATA CABLE / VGA CABLE AND AIR CROSSING LIKE ALMARI / SHELF SHAPE OR ANY SUITABLE DESIGN WITH LOCKING ARRANGEMENTS	05
10	WOODEN STOOL	Height 2ft X 2 ½ft Bottom Width 1ft ½ (square) Top / upper width 15 inch (Square) COLOR POLISHED	08


DEPUTY DIRECTOR
 Institute of Physiotherapy & Rehabilitation Sciences
 U.S.A. J.S. JAMSHORO.

Physical agent electro lab specifications

Ultra sound

1-3 MHz Unit
Detachable Applicator Cables
Continuous and Pulsed Modes
Built in applicator cradles
Crystal to patient technology
Water characteristics for underwater therapy
1-3.3 MHz penetration depth
10,20,50 and 100% duty cycle modes.
Rechargeable smart lithium ion battery
Protective class I Equipment

Accessories

5cm² dual frequency applicators
Power cord

DL2 STIMULATOR

DC CURRENT

FARADIC CURRENT

DC

1 LARGE ELECTRODE WITH LEADS

1 SMALL ELECTRODE WITH LEADS

1 PEN PROBE WITH LEADS

SHORTWAVE DIATHERMY

PULSED AND CONTINUOUS DIATHERMY

SOFT RUBBER CAPACITIVE APPLICATORS.

FELT SPACERS

FREQUENCY: 27.12 MHz

HF output:

100W average power

200W peak power

Pulse frequency: 10 Hz, 20Hz, 50Hz, 100Hz, 400Hz.

Pulse duration range: 65 us, 100 us, 200 us, 300 us and 400 us.

Treatment time: 1-30 minutes

Operation temperature: +50OF to +104of (+100c to +40oc)

Humidity: Operating, 30% to 75% relative humidity at 104OF (40oc)

Nonoperating, 5 to 95% relative humidity, non-condensing.

Storage temperature: 40oF to 167OF

Storage humidity: storage, 30% to 90% relative humidity at 104oF (40oc) no condensing

Storage pressure: 700-900 mB

TENS

DUAL CHANNEL

CONSTANT, BURST, MODULATION STIMULATION MODES.

MANUAL RATE CONTROL KNOB

MANUAL WIDTH CONTROL KNOB

BATTERY OPERATED

INFRA RED LAMP

Lamp with adjustable height stand

easily adjustable lamp angulations

Base Made of M.S and

rod made of Stainless steel with

heavy base and Philips bulb.

ULTRA VIOLET LAMP

Lamp with adjustable height stand

easily adjustable lamp angulations

Base Made of M.S and

rod made of Stainless steel with

heavy base and Philips bulb.

LASER UNIT

First laser system offering energy levels (joules) and time to be set from the laser probe
Pulsed/continuous modes
Sweep mode facility
100m W laser probe

INTERFERENTIAL UNIT

Bipolar mode
Quadrupolar mode
Complete accessories and applying cables

Kinesiology and biomechanics lab

Goniometers
Universal goniometer
180° goniometer
Finger goniometer
Wrist goniometers
Large joint goniometer

Postural assessment grid
Size 7ft x 4ft

Hand grip dynamometer
Standard

Inclinometer
Standard
Measuring tape
Standard
Electronic weight scale
Standard

Traction table and unit
Continuous and intermittent traction
Safety stop switch.
For lumbar and cervical region
Traction force, base force, base hold time and treatment time.

Minimum height: 50cm
Maximum height: 100cm
Cushion width: 61cm
Head section length: 40cm
Leg section length: 80cm
Center section length: 31cm
Head section angle: -57° to +18°
Leg section angle: 0° to +90°
Total length: 241cm
Refractable wheels
Lift mechanism: electrical

Crutches, Sticks, Frames and Wheelchair

Adjustable

Couch treatment table

Size table top: 195x67 cm (LxW)
height of 80 cm
easily adjustable head- or back-section
4 adjustable chrome legs to guarantee maximum stability.
The head-section model offers the possibility of a negative inclination, which is optimal for neck and shoulder treatment
With Cluton system adjustment of head

Trampoline
Medium size



Purchase & Store Section

LIAQUAT UNIVERSITY

OF MEDICAL & HEALTH SCIENCES JAMSHORO, SINDH

Telephone: + 9213350, Exch.771240, Ext. + 122

Email: storesectionlumhs@yahoo.com

Web Site: www.lumhs.edu.pk

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Category B

LIST OF LOCAL BOOKS FOR BOOK BANK / LENDING LIBRARY LUMHS JAMSHORO.

S.N o.	Author	Title	Edition	Quantity	Unit Rate	Total Amount
1.	Rashid Latif	Textbook of Gynecology	Latest	200		
2.	Robert K Murray	Harper Illustrated Bio Chemistry	Latest	250		
3.	Richara S. Snell	Clinical Neuro Anatomy	Latest	350		
4.	Crummey's Sinnatamby	Last Anatomy	Latest	250		
5.	B.D Chaurasia's	Human Anatomy 3 Vol. Set	Latest	250		
6.	J.V. Spames	Oral Pathology	Latest	150		
7.	Roberson Heymann	Art and Science of Operative Dentistry	Latest	110		
8.	Shaf. M. Jatoi	Clinical Ophthalmology	Latest			
9.	Nasib R. Awan	Principles & Practice of Forensic Medicine	Latest	300		
10.	C.K Parik	Parikh's 1. Book of Medical Jurisprudence Forensic Medicine & Toxicology	Latest	200		
11.	Dhingra	E.N.T Disease of Ear Nose & Throat	Latest	300		
12.	Kumar Abbass	Robins Basic Pathology	Latest	150		
Total Books				2510		

LIST OF REFERENCE BOOKS FOR CENTRAL LIBRARY LUMHS JAMSHORO.

S.No.	Author	Title	Edition	QTY	Unit Rate	Total Amount
1	Michael J. Zinner	Maingat's Abdominal Operations	Latest	01		
2	David P.Green M.D	Operative Hand Surgery	Latest	01		
3	Robert M. Zellingr	Atlas of Surgical Operations	Latest	01		
4	John C. Ballantyne Harrison	Roband Smith Operative Surgery	Latest	01		
5	Terry Camale, James H. Beaty	Campbell's Operative Orthopedics	Latest	01		
6	Graham Apley Lou's Salomon	Apley's System of Orthopedics and fracture	Latest	01		
7	J.N. Wilson	Watson-Janes, Fracture and Joint Injuries	Latest	01		
8	Ronald McRAE	Clinical Orthopedic Examination	Latest	01		
9	John Crawford Adams	Outline of Orthopedics	Latest	01		
10	John Crawford Adams	Outline of Fracture	Latest	01		
11	Gerard M Dhert	Current Diagnoses & Treatment	Latest	01		
12	Courtney M. Tewnsend	Sabiston Textbook Surgery	Latest	01		
13	Cuschieri	Essential Surgical Practice	Latest	01		
14	George Burkitt	Essentials Surgery Probles Diagnosis & Management	Latest	01		
15	Williams	Bailey & Love's Short Practice of Surgery	Latest	01		
16	Harold Ellis	Lecture Notes an General	Latest	01		

17	Kingsmerth Leblane	Surgery Management of Abdominal Hernias	Latest	01		
18	Peter J. Marris Wood	Oxford Textbook of Surgery	Latest	01		
19	Alan Clain	Hamilton Bacley's Demonstration of Physical Signs in Clinical Surgery	Latest	01		
20	Nyhas, Baker	Mastery of Surgery	Latest	01		
21	Emil A. Tanagho	Smith's General Urology	Latest	01		
22	Marvin L. Gorman	Colon and Rectal Surgery	Latest	01		
23		Faraunason's Operative Surgery	Latest	01		
24	Admams, Victor	Principles of Neurology	Latest	01		
25	Gerdaint Fuller	Neurological Examination Made Easy	Latest	01		
26	Wolfgang K. Joklik Willett	Zinsser Microbiology	Latest	01		
27	Talano Talano	Foundation in Microbiology	Latest	01		
28	Manadoll Bennett	Principles and Practice of Infectious Disease	Latest	01		
29	Gordan C Cook Zumia	Manson's Tropical Disease	Latest	01		
30	Maphee	Current Medical Diagnosis & Treatment	Latest	01		
31	Buckley Gluckman	HIV Infection in primary care	Latest	01		

S.No.	Author	Title	Edition	Quantity	Unit Rate	Total Amount
32	Thomas E. Ogden David R. Hinten	RETINA	Latest	01		
33	Jack S. Kanski	Clinical Ophthalmology	Latest	01		
34	Kumar Abbas	Pathologic Basis of Disease 2 vol. Set.	Latest	01		
35	Kumar Abbas	Basic pathology	Latest	01		
36	Frankline Brown	Basic Clinical Parasitology	Latest	01		
37	Bernerd E. Mathews	An Introduction to Parasitology	Latest	01		
38	Viqar Zaman	Atlas of Medical Parasitology	Latest	01		
39	Fieck Moody	Diagnostic Techniquis in Medical Perasitology	Latest	01		
40	James H. Leech, Merle A. Sande	Parasitic Infection	Latest	01		
41	Crewe	A Guide to Human Parasitology	Latest	01		
42	Davey, Crewe	A Guide to Human Parasitology	Latest	01		
43	Alan Wilson	An Introduction to Parasitology	Latest	01		
44	Sean C Sweetman	Martindale	Latest	01		
45	Hard man Limbird	Goodman & Gilman Te Pharmacological Basis of Therapeutics	Latest	01		
46		Mosby Drug Consult	Latest	01		
47	Bennett, Brown	Clinical Pharmacology	Latest	01		
48	Travor Katzung	Pharmacology Examination & Board Review	Latest	01		
49	Katzum Master	Basic & Clinical Pharmacology	Latest	01		
50	K. Park	Preventive and Social Medicine	Latest	01		
51	Victor P. Eroschenko	Di Fiore's Atlas of Histology	Latest	01		
52	Gartner, Hiatt	Color Atlas of Histology	Latest	01		
53	Jungueira	Basic Histology	Latest	01		
54	Irwin Berman	Color Atlas of Basic Histology	Latest	01		
55	K. Sembulingam	Essentials of Medical Physiology	Latest	01		
56	Barrett Borman	Ganong's Review of Medical Physiology	Latest	01		

57	Anthony Du Vivier	Atlas of Clinical Dermatology	Latest	01		
58	Guyton & Hall	Medical Physiology	Latest	01		
59	Odom, Jones, Berger	Andrews Disease of the Skin	Latest	01		
60	Wilson, Foster, Kranenberg	Willaims Textbook of Endocrinology	Latest	01		
61	Greenspan Gardner	Basic & Clinical Endocrinology	Latest	01		
62	Johan Pickup Gareth	Textbook of diabetes	Latest	01		
63	Braverman Utiger	Werner & Ingvars the thyroid	Latest	01		
64	Sadier	Langman's Medical Embryology	Latest	01		
65	Moore Paursad	The Develaping Human Embryology	Latest	01		
66	Stryer	Biochemistry	Latest	01		
67	Charterjea	Textbook of Medical Biochemistry	Latest	01		
68	Harper	Illustrated of Biochemistry	Latest	01		

S.No.	Author	Title	Edition	Qty	Unit Rate	Total Amount
96	Nelson Cox	Lehninger Principles of Biochemistry	Latest	01		
70	A- Seaton D. Seaton	Crother and Dauglas's Respiratory Disease	Latest	01		
71	Aikenhead	Textbook of Anesthesia	Latest	01		
72	Fleisher Johns	Millers Anesthesia	Latest	01		
73	Crawford	Current Diagnosis & Treatment	Latest	01		
74	Fuster, Alexander	The Heart	Latest	01		
75	Snell	Clinical Neura Anatomy	Latest	01		
76	Sinnatamby	Last Anatomy	Latest	01		
77	Richard L. Darke Vagle	Gray's Anatomy for Stuentis	Latest	01		
78	Agar, Dal'ay	Grants Atlas of Anatomy	Latest	01		
79	Keith L. Moore	Clinically Orinted Anatomy	Latest	01		
80	B.D Churasia	Human Antomy 3 Vol. Set.	Latest	01		
81	Saladin	Anatomy hysiology	Latest	01		
82	Cormine D. Clemente	AnatomyA Regional Atlas of the Human Body	Latest	01		
83	Harold Ellis	Clinical Anatomy	Latest	01		
84	Maor, Agur	Essential of Clinical Anatomy	Latest	01		
85	Frank Netter	Atlas of Human Anatomy	Latest	05		
86	Abrahams Hutchings	Mc Min's Color Atlas of Human Anatomy	Latest	01		
87	Carpenter	Care Textbook of Neuro Anatomy	Latest	01		
88	David Sutton	Texbook of Radiology and Imaging	Latest	01		
89	Peter Armstreng	Diagnostic Imaging	Latest	01		
90	Susan J Neuhans Devitt, Gernly	Radiology in Surgical Practice	Latest	01		

DEPARTMENT OF NEUROSURGERY

S.No.	Author	Title	Edition	Quantity	Unit Rate	Total Amount
01	Sekhar	Atlas of Neurosurgical Techniques Brain	Latest	01		
02	Fessler	Atlas of Neurosurgical Spine and Peripheral Nerves.	Latest	01		
03	Prasad	Bickers'atiff's Neurological Examination in Clinical Practice with CD 7 th Adapted ed.	Latest	01		
04	Morris	Neurological Clinical Examination	Latest	01		
05	Fuller	Neurological Examination Made Easy	Latest	01		
06	Youman	Text book of Neurosurgery	Latest	01		

	willkins	protocols	Edition				
08	Carolyn M. hudak	Critical care nursing A. holistic approach	Latest Edition	Lippincott	50		
09	P.K, Panwar	Medical Surgical Nursing		Aitbs publishers	50		
10	Janice, L.Hinkle & Kerry H.Cheever	Brunner & Suddarths Text book of Medical Surgical Nursing Vol.01 & vol.02		Wolters Kluwer Pvt Ltd	50		

PATHOPHYSIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QTY	Unit Rate	Total Amount
01	Carol, Porth Mattsom	Pathophysiology concept of altered health states	Latest Edition	Philadelphia:J.B. Lippincott	30		
02	Lippincott	Professional guide to pathophysiology		Lippincott 2003	50		

HEALTH ASSESSMENT

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QTY	Unit Rate	Total Amount
01	Bicklay, L.S	Bates, guide to physical examination and history taking	Latest Edition	Lippincott	100		
02	Fuller, J. & Schaller - Ayers, J	Health Assessment: A Nursing approach	Latest Edition	Philadelphia: J.B.Lippincott 2000	100		
03	Cox, C. H	Clinical applications of nursing diagnosis	Latest Edition		100		
04	Munro, J.F	Macleod's clinical examination	Latest Edition	Churchill livingstone	100		
05	Thompson, B	Clinical manual of health assessment	Latest Edition	Louis mosby	100		
06	Weber, J.R	Nurses handbook of health assessment	Latest Edition	Lippincott	100		
07	Wilson, S.F	Health assessment for nursing practice	Latest Edition	Louis mosby	100		

PHARMACOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	Qty	Unit Rate	Total Amount
01	Porter, R. J. & Meldrum, A. J	Basic & clinical pharmacology	Latest Edition	Antiseizures Drugs. In Katzung, B. G 2001	30		
02	Richard D Dowland	Lippincotts Illustrated reviews pharmacology		New York 2006	30		

EPIDEMIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	Qty	Unit Rate	Total Amount
01	Ederson, E.T & McFarlane, J.M	Community as Partner	Latest Edition	Philadelphia: Lippincott	50		
02	Bahn,M.	Epidemiology: An Introductory Tex	Latest Edition	Philadelphia: Sanders Company	50		
03	Smith, C. M &	Community Health Nursing	Latest	Tornoto.	50		

REPRODUCTIVE HEALTH

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Matthews, R: & Callister, L. C	Childbearing women's perceptions of nursing care that promote dignity.	Latest Edition	Jognn clinical issues	100		
02	Sittner, B. J; Defrain, J; & Hudson, D. B. (2005	Effect of high risk pregnancies on families.	Latest Edition	Lippincott.	100		
03	Margaret.F. Myles	Myle's Textbook for Midwives: With Modern Concepts of Obstetric and Neonatal Care	Latest Edition	Elsevier Publishing in 2003	100		
04	Medforth, Janet; Batters by, Sue; Evans, Maggie; Marsh, Beverley; Walker, Angela	Oxford Handbook of Midwifery	Latest Edition	Oxford University Press in 2006	100		
05	Norman, Jane; Greer, Ian	Preterm Labour: Managing Risk in Clinical Practice	Latest Edition	Cambridge University Press in 2005	100		

06	Rashid latif	Text book of gynecology & obstetric	Latest Edition		100	Unit Rate	Total Amount
07	Anis musani	Terse gynecology & obstetric	Latest Edition		100		
08	Mrs imtiaz kamal	Manual of reproductive health	Latest Edition		100		

MICRO BIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Atlas, M, R	Microbiology.	Latest Edition	New York: McMillanPublishing	100		
02	Colee, J.G	Microbiology for Nurses		New York: Blackwell Scientific	100		
03	Gupte, S	Practice Microbiology	Latest Edition	New Delhi: Jaypee Brothers Medical	100		
04	Volk, A.W	Essentials of Medical Microbiology	Latest Edition	Philadelphia: J.B. Lippincott	100		
05	Elmer W Koneman	Color Atlas and text book of diagnostic microbiology	Latest Edition	Lippincott	100		
06	R.L Punani Rajesh Bhattia	Microbiology for nurses	Latest Edition		100		
07	Warran Levison	Review of medical microbiology	Latest Edition		100		
08	Richard A Harvey	Lipincotts illustrated reviews of microbiology	Latest Edition	Lipincotts Williams & wilkins	100		

FUNDAMENTAL OF NURSING

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Carpinito L.J	1.Nursing Care Plans & Documentation.2: Nursing Diagnosis And Collaborative Problem	Latest Edition	Philadelphia Lippincott	100		
02	Delaune, S. C., & Ladner, P. K	Fundamentals of Nursing: Standards and Practice.	Latest Edition	Canada: Delmar	100		
03	Katty V. G Gettrust and Paula D.brabec.	Nursing Diagnosis in Clinical practice Guide for Care planning		(Delamer publisher).	100		
04	Sandra .F. Smith + Domina ,J.Duell	Clinical Nursing Skills Basic to advance Skills	Latest Edition		100		
05	Potterpary	Fundamental of Nursing	Latest Edition	Elsevier	100		
06	Jeccob	Fundamental of Nursing vol one & Two	Latest Edition		100		
07	Carpinito L.J	Nursing care plan & documentation nursing diagnosis and collaborative problems	Latest Edition	Lippincott	100		
08	Craven R.F	Fundamental of Nursing human health & function	Latest Edition	Lippincott	100		
09	Carpenito, Moyet	Hand book of nursing diagnosis	Latest Edition	Lippincott Williams wilkins	100		

BIO CHEMISTRY FOR NURSES

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Chatterjea MN.	Textbook of Biochemistry for dental /nursing / pharmacy students	Latest Edition	New Delhi : Jaypee	100		
02		Bio-Chemistry by Lippincott	Latest Edition		100		
03	Jacob-A	Bio-Chemistry for nursing	Latest Edition		100		
04	Sackhiem-G-I	Chemistry for the health sciences	Latest Edition		100		
05	Richard A harvay	Lippincott's illustrated biochemistry	Latest Edition	Lippincotts Williams & Wilkins	100		

MATHEMATICS

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Giangrasso O.	Medical Dosage Calculation: Prentice:Hal, Inc. Henke, G.	Latest Edition	Med-Math. Philadelphia J.B.Lippincott	100		
02		Essential mathematics for nursing	Latest Edition		100		
03		Fundamental for mathematics	Latest Edition		100		

COMPUTER SKILLS

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Arnold, J.M., & Pearson, G.A.	Computer Applications in Nursing Education and Practice	Latest Edition	New York: National League of Nursing.	100		
02	Saba, V.K., & McCormick, K.A.	Essentials of Computers for Nurses	Latest Edition	New York: McGraw Hill	100		
03	Thede. L.Q.	Computers in Nursing: Bridges to the Future.	Latest Edition	Philadelphia: Lippincott	100		

ANATOMY PHYSIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Guyton, A. C.	Medical Physiology	Latest Edition	Washington: Kirokawa	100		
02	Cecellia Gastson Grindel	Spring house notes anatomy & physiology		Spring house cooperation 1997	100		
03	Suladin	Anatomy & physiology: the unit of form and function	Latest Edition	Mcgraw hill	100		
04	Spring house	Anatomy & physiology made incredibly easy	Latest Edition		100		
05	Spring house	Lippincotts professional guides anatomy & physiology	Latest Edition	Lippincotts	100		
06	Rose & Wilson	Anatomy & Physiology for nursing book	Latest Edition		100		
07	Evan piece	Anatomy & Physiology for nursing	Latest Edition		100		
08	Singh	Anatomy & Physiology for nurses	Latest Edition		100		
09	Snell	Clinical Anatomy	Latest Edition		100		
10	Tortora Gerard J	Principles of anatomy & physiology vol 1 & 2	Latest Edition	John wiley & sons	100		

INTRODUCTION TO NURSING PROFESSION

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Kozier, B., Erb, G. & Oliveri, R.	Fundamentals of Nursing: Concepts Process. and Practice	Latest Edition	St. Louis: Mosby-Year Book.	100		
02	Ellis, J. R. & Hartley, C.L.	Nursing in today's World: Challenges Issues and trends.	Latest Edition	Philadelphia: J.B. Lippincott	100		
03	Hood lucy jane	Leddy and papers conceptual bases of professional nursing	Latest Edition	Lippincott Williams & wilkans	100		

COMMUNITY HEALTH NURSING

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Jance E Hitchcock Phyllis E Schubert	Community Health Nursing: caring in action	Latest Edition		100		
02	Ansari. I. M.	Community medicine and public health	Latest Edition	Karachi	100		
03	J.Park	Social & Prevention Medicine	Latest Edition		100		
04	Anderson, E.T	Community as partner theory and practice in nursing	Latest Edition	Lippincott	100		
05	Carey, P	Community development through participatory arts: lessons learned from a community arts and regeneration project	Latest Edition		100		
06		Practice in a community health nursing practicum. Nurse educate	Latest Edition		100		
07	mc. Michael. A.	Urban environment and health in a world of increasing globalization: issues for developing countries	Latest Edition	W.H.O	100		
08	B.T basavanhappa	Community health nursing	Latest Edition	Jaypee	100		
09	Popple, K	Community development and the voluntary sector in the new millennium: the implications of the third way in the UK	Latest Edition		100		
10	Richardson, J	Whatever the weather: A tropical dimension to community developmental theory	Latest Edition		100		
11	Smith, K. R	Environmental health for rich or for all	Latest Edition	W.H.O	100		
12	Dr. Simon alferd	Community health nursing vol One & two	Latest Edition	Imran educational publication	100		

NURSING ETHICS

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Aiken T.D & Catalano, J.L	using the Human Rights Paradigm, in Health Ethics: The problems & The possibilities. Nursing Ethics	Latest Edition	Philadelphia F.A.Davis	100		
02	Bandman & Bandman	Nursing Ethics through the life span	Latest Edition	New-York: Appleton & Lange.	100		
03	Beauchamp T.L. and Childress, J.F	Principles of Bio medical Ethics	Latest Edition	New-York Oxford	100		
04	Burkhardt, M.A. & Nathaniel, A.K.	Ethics & Issue: In Contemporary Nursing	Latest Edition	Delmar: ITP	100		
05	Davis, A.J. and Aroskar, M.A	Ethical dilemmas and nursing practice	Latest Edition		100		
06	Iam E. Thompson	Nursing ethics	Latest Edition	Churchill Livingstone	100		
07	Alken T.D	Legal ethical political issues nursing	Latest Edition	F.A. Davis	100		
08		Bio ethics & society. Constructing the ethical enterprise Englewood cliffs	Latest Edition	Prentice hall	100		
09	Green C	Confidentiality & the law nursing times	Latest Edition		100		
10	Gulley S	Dealing with the dilemmas of confidentiality nursing times	Latest Edition		100		
11	Hyer, A. A	Health ethics in pakistan: A literature review of its present state	Latest Edition		100		
12	Joy curtis, M.B	Ethics in nursing	Latest Edition		100		
13	Carbinito	Hand book of nursing diagnoses	Latest Edition		100		

ADULT HEALTH NURSING

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Brunner, L.S., & Suddarth, D.S	Text Book of Medical- Surgical Nursing	Latest Edition	Philadelphia: Lippincott 2001	100		
02	Dolan, J.T	Critical care nursing: Clinical management through nursing process	Latest Edition	Philadelphia: Davis 1991	100		
03	Smelter, S.C., & Bare, B.G	Text book of Medical-Surgical Nursing	Latest Edition	Philadelphia: Lippincott 2000	100		
04	Eay A. Hargrove	Medical Surgical Nursing	Latest Edition	Lippincott	100		
05	Joyce M Black	Medical Surgical Nursing (Volume one & two)	Latest Edition	Sanunders Elsevier 2005	100		
06	B.T Bansavanhappa	Medical Surgical Nursing	Latest Edition	J. P Brothers 2003	100		
07	Williams and willkins	Nursing procedure and protocols	Latest Edition	Lippincott	100		
08	Carolyn M. hudak	Critical care nursing A. holistic	Latest Edition	Lippincott	100		

		approach					
09	Spring House	Diseases: causes & complication	Latest Edition	Spring house corporation	100		
10	Doenges	Nursing care plan for basic learners	Latest Edition		100		

PATHOPHYSIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Carol, Porth Mattsom	Pathophysiology concept of altered health states	Latest Edition	Philadelphia:J.B. Lippincott	100		
02	Lippincott	Professional guide to pathophysiology	Latest Edition	Lippincott 2003	100		
03	Spring House	Hand book pathophysiology	Latest Edition	Spring house corporation	100		

HEALTH ASSESSMENT

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Bicklay, L.S	Bates, guide to physical examination and history taking	Latest Edition	Lippincott	100		
02	Fuller, J. & Schaller - Ayers, J	Health Assessment: A Nursing approach	Latest Edition	Philadelphia: J.B.Lippincott 2000	100		
03	Cox, C. H	Clinical applications of nursing diagnosis	Latest Edition		100		
04	Munro, J.F	Macleod's clinical examination	Latest Edition	Churchhill livingstone	100		
05	Thompson, B	Clinical manual of health assessment	Latest Edition	Louis mosby	100		
06	Weber, J.R	Nurses handbook of health assessment	Latest Edition	Lippincott	100		
07	Wilson, S.F	Health assessment for nursing practice	Latest Edition	Louis mosby	100		
08	Jenet weber	Health assessment in nursing	Latest Edition		100		
09	Marry Ellen	Health assessment & Physical Examination	Latest Edition		100		

PHARMACOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Porter, R. J. & Meldurm, A. J	Basic & clinical pharmacology	Latest Edition	Antiseizures Drugs. In Katzung, B. G 2001	100		
02	Richard D Dowland	Lippincotts Illustrated reviews pharmacology		New York 2006	100		
03	Trevar katzung	Review of pharmacology	Latest Edition		100		

TEACHING AND LEARNING: PRINCIPLES AND PRACTICES

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Billings. M. D., & Halstead, A.J	Teaching in nursing. A guide for faculty	Latest Edition	St. Louis: W.B. Saunders 1998	100		
02	De Young, S	Teaching strategies	Latest	New Jersey:	100		

		for nurse educators	Edition	Prentice Hall 2003			
03	Gaberson & dermann	Clinical teaching strategies in nursing	Latest Edition		100		

DEVELOPMENTAL PSYCHOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Berry, J	Developmental Psychology and You	Latest Edition	Published by Blackwell, U.K ISBN.063123389. 2002	100		
02	Laura, B	Child Development	Latest Edition	Pearson International 2005	100		
03	Laura, B	Development Through The Life Span	Latest Edition	Amazon series	100		
04	Slater, A	An Introduction to Developmental Psychology	Latest Edition	Amazon series 2003	100		
05	Williams, C	Theories of development, concepts and application	Latest Edition	Edinburgh Gate, Harlow, Essex CM20 2JE: Pearson Education 2004	100		
06	Dr. Simon Alfred	Basics of psychology for nurses	Latest Edition	Imran educational publication	100		

APPLIED NUTRITION

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Dr. L.C Gupta	Food and Nutrition: Fats and Figures	Latest Edition	Pardeep Printers 1989	100		
02	Molly sam, N.Geetha	A text book of nutrition for nurses	Latest Edition	Jaypee Brothers 2000	100		

EPIDEMIOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Ederson, E.T & McFarlane, J.M	Community as Partner	Latest Edition	Philadelphia: Lippincott	100		
02	Bahn,M.	Epidemiology: An Introductory Tex	Latest Edition	Philadelphia: Sanders Company	100		
03	Smith, C, M & Maurer, F. A	Community Health Nursing Theory & Practice	Latest Edition	Tornoto: Saunders Company	100		
04	Standhope, M.& Lancaster,J	Community Health Nursing	Latest Edition	London C.V.Mosby	100		
05	Lilienfeld,P.K & Stolley P.D	Foundation Epidemiology	Latest Edition	London	100		
06	Leion gordis	Epidemiology	Latest Edition		100		

MENTAL HEALTH NURSING

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Frisch, N. C., & Frisch, L.E	Psychiatric mental health nursing	Latest Edition	Albany Delmar Publishers 2002	100		
02	Dr. Simon Alfred	Basics of psychiatry for nurses	Latest Edition	Imran educational publication	100		
03	Sheila. L. Videbeck	Psychiatric mental health nursing	Latest Edition	Lippincott	100		
04	Susan L.W Krupinck	Psychiatric care planning now with clinical pathways	Latest Edition	Springhouse	100		
05	Doenges	Nursing care plan of psychiatric nursing	Latest Edition		100		

INTRODUCTION TO BIOSTATISTICS

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Kuzma, J. W	Basic statistics for the health sciences	Latest Edition	California: Mayfield 2001	100		
02	Wayne W. Daniel	Biostatistics	Latest Edition		100		
03	Bernard rosner	Fundamental of Biostatistics	Latest Edition		100		

BEHAVIOR PSYCHOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Atkinson, R. L., Atkinson, R.C., Smith, E.E., Bem, D.J., & Nolen-Hoeksema, S	Hilgard's introduction to psychology	Latest Edition	Fort Worth, TX: Harcourt Brace & Company 1996	100		
02	Aronsen, Eliot	Social psychology	Latest Edition	Printice hall publication	100		
03	Nevid, J	Abnormal psychology in a changing world	Latest Edition	London prentice hall	100		
04	Sarafino, E	Health psychology: Bio psychosocial interaction	Latest Edition	John wiley and sons	100		
05	Walker jan	Psychology for nurses and caring professionals	Latest Edition	Open university press	100		

NURSING RESEARCH

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Burns, N., & Grove, S. S	Understanding nursing research.	Latest Edition	Philadelphia: W.B. Saunders 2006	100		
02	Denise F. polit	Essentials of nursing research	Latest Edition	Lippincott	100		
03	Lippincott	Qualitative research in nursing	Latest Edition		100		
04	P. Hungler	Nursing Research Principles & methods	Latest Edition		100		

05	Marilynn E doenge	Nursing care plan	Latest Edition		100		
06	Lynda suall carpanito	Nursing care plan & documentation	Latest Edition		100		
07	Polit & beck	Nursing research	Latest Edition		100		

INTRODUCTION TO NURSING PROFESSION

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Kozier, B., Erb, G. & Oliveri, R.	Fundamentals of Nursing: Concepts Process. and Practice	Latest Edition	St. Louis: Mosby-Year Book.	100		
02	Ellis, J. R. & Hartley, C.L.	Nursing in today's World: Challenges Issues and trends.	Latest Edition	Philadelphia: J.B. Lippincott	100		

NURSING SEMINAR/ ROLE TRANSITION

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Byerly, R.T., Carpenter, J.E., & Davis, J	Managed Care and the Evolution of Patient	Latest Edition	2001	100		
02	Chitty, K. K	Defining Profession. In K.K. Chitty (Ed.), Professional Nursing: Concepts & Challenges	Latest Edition	Philadelphia: W.B. Saunders 2001	100		
03	Cameron, M.E., Schaffer, M., & Park, H	Nursing Student's Experiences of Ethical	Latest Edition	2001	100		
04	Grace	Current issues in nursing	Latest Edition	pp. 234-240. St. Louis: Mosby	100		
05	Ellis, J.R., & Hartley, C.L	The Development of nursing as a profession. In Nursing in today's world	Latest Edition	163-203. Philadelphia: Lippincott	100		
06	Heidenthal, P.K	Nursing Leadership & Management, New York	Latest Edition	2003	100		
07		Nurse educator	Latest Edition		100		

WRITING FOR RESEARCH REPORT

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total amount
01	Baugh, L.S., Fryar, M., & Thomas, D.A	How to write first-class business correspondence: The handbook for business writing	Latest Edition	New Delhi: NTC Publishing Group. 2000	100		
02	Cormack, D	Writing for health care professions	Latest Edition	Cambridge, MA: Blackwell 1994	100		

ELECTIVES

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	College of Nurses of Ontario	Entry to practice competencies for Ontario Registered Nurses as of January 1	Latest Edition	Toronto: Author 2005	100		
02	International Council of Nurses (ICN).	An Implementation Model for the ICN Framework of Competencies for the Generalist Nurse	Latest Edition	Geneva: Author 2003	100		

ENGLISH

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	By Bethy schrampter azar	Understanding & Using English Grammar	2 nd Ed		100		
02	By stvart redman	English vocabulary in use		(Cambridge university press)	100		
03	By wren & martim	English Grammar & Composition			100		
04	By John Eastwood	Oxford practice Grammar	New Edition		100		
05	By Herta + Murphy	Effective Buriness Communication	7 th Ed		100		
06	Oxford	Oxford dictionary English to urdu	Latest Edition	Oxford	100		

DEVELOPMENTAL PSYCHOLOGY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Berry,J	Developmental Psychology & you	Latest Edition	Blackwell, U.K 2010	100		
02	Laura, B	Child Development	Latest Edition	Person International 2005	100		
03	Robert, K	Children and Their Development	Latest Edition	Pearson International 2006	100		
04	Slater, A	An Introduction to Developmental Psychology	Latest Edition	Amazon Series 2003	100		
05	Sternbery R	Psychology: In the search of humanmind	Latest Edition	Harcourt College Publishers 2001	100		
06	Villiams, C	Theories of development, concepts and applications	Latest Edition	Edinburgh Gate 2004	100		
07	Wade, C	Psychology. New Jersey	Latest Edition	Pearson education Weiten 2003	100		

SOCIOLOGY CULTURE HEALTH & SOCIETY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Horton, P.B & Hunt. C.L	Sociology	Latest Edition	McGraw Hill New York 1984	100		
04	Inglis	Culture and everyday life	Latest Edition	2005	100		
05	Oswell	Culture and society & introduction to culture studies	Latest Edition	2007	100		
06	Merry	Culture health and illness	Latest Edition	2007	100		
07	Ralhan	Introduction to sociology	Latest Edition	2007	100		
08	Srivastava	Principles of sociology	Latest Edition	2007	100		
09	Mike Featherstone	Theory, culture & society	Latest Edition	The TCS centre Nottingham trent university	100		
10	Dr.Siron Alfrat	Basis of sociology for nurses	Latest Edition	Imran educational pb-lahore 2003	100		

TROPICAL DISEASES

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Bower G.M	Managing dog. Cat & human bite wounds the nurse practitioner	Latest Edition		100		
02	Chin J	Control of communicable disease manual	Latest Edition	Washington	100		
03	Haw, L.H	Dealing with scabies nursing standards	Latest Edition		100		
04	Yasinzai, M.I	Incidence of malaria infection in rural areas of district	Latest Edition		100		
05		Diseases	Latest Edition	Spring house	100		

PAKISTAN STUDY

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Basavanthappa, B.T	Nursing Education New Delhi	Latest Edition	Jaypee Medical Publication 2003	100		
02	Billings, M.D & Halstead, A.J	Teaching in Nursing	Latest Edition	A Guide for faculty St.Louis: W.B. Saunders 1998	100		
03	Brookfield, S	The Skillful Teacher. San Francisco	Latest Edition	San Francisco: CA: Jossey Bass 1990	100		
04	De Young, S	Promoting and assessing critical thinking in. Teaching strategies for nurse educators 217-257	Latest Edition	New Jersey: Prentice Hall. 2003	100		
05	De Young, S	Teaching strategies	Latest	New Jersey:	100		

		for nurse educators	Edition	Prentice Hall. 2003			
06	Ooijen, V.E	Clinical supervision: A practical guide	Latest Edition	St. Louis: Churchill Living Stone. 2000	100		

ISLAMIYAT

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Moulana Abdul Karam Azad	Ummul quran	Latest Edition	Sindhi Academy	100		
02	Qari sayad Haji Ali Muhammad Shah	Musleh-al-muftah	Latest Edition	Press sindh university	100		
03	Imam jut	Keemya isaadat	Latest Edition		100		
04	Malise ruthven	Islam in the world	Latest Edition	Oxford univesity press new york	100		
05	Julian baldick	Mystical islam	Latest Edition	Introduction to Sufism tauris parke London	100		
06	Akhtar k bhatti	The holy quran on environment	Latest Edition	Royal books company Karachi	100		
07	Dr. David R Thomas	lalamiyat	Latest Edition	Oxford press London	100		
08	Farkhuda noor Muhammad	Islamiyat for students	Latest Edition	Ferogsons Karachi	100		
09	Yasmin malik	Islam beliefs and practices	Latest Edition	The army press Islamabad	100		

04	Medforth, Janet; Batters by, Sue; Evans, Maggie; Marsh, Beverley; Walker, Angela	Oxford Handbook of Midwifery	Latest Edition		100	Oxford University Press in 2006	
05	Norman, Jane; Greer, Ian	Preterm Labour: Managing Risk in Clinical Practice	Latest Edition		100	Cambridge University Press in 2005	

10	S.D shah	Islam at glance	Latest Edition		100		
11	A Aziz umrani	Islam the universal religion	Latest Edition		100		
12	A Aziz umrani	The path to the paradise	Latest Edition		100		
13	Syed Abdullah moddodi	The fundamental of islam	Latest Edition		100		

REPRODUCTIVE HEALTH

S/NO	AUTHOR	TITLE	EDITION	YEAR OF PUBLICATION	QUANTITY	Unit Rate	Total Amount
01	Matthews, R; & Callister, L. C	Childbearing women's perceptions of nursing care that promote dignity.	Latest Edition	Jognn clinical issues	100		
02	Sittner, B. J; Defrain, J; & Hudson, D. B. (2005)	Effect of high risk pregnancies on families.	Latest Edition	Lippincott.	100		
03	Margaret.F. Myles	Myle's Textbook for Midwives: With Modern Concepts of Obstetric and Neonatal Care	Latest Edition	Elsevier Publishing in 2003	100		

LIST OF LATEST EDITION OF BOOKS REQUIRED IN QUESTION BANK LUMHS
JAMSHORO.

- **Anatomy (All Latest Edition)**
 - Clinical Anatomy by Region
 - Clinical Oriented Anatomy
 - Clinical Neuro-anatomy
 - Functional Histology
 - Developing Human (All Latest Edition)
- **Physiology (All Latest Edition)**
 - Text Book of Medical Physiology (Gyton and Hall)
 - Review of Medical Physiology (Latest Edition)
 - Color Atlas of Physiology (Latest Edition)
 - Guytons (Latest updated editon)
- **Pharmacology (All Latest Edition)**
 - Clinical Pharmacology by Bartern G. Katzung 11th Edition
 - LippinCott's Illustrated Pharmacology
- **Biochemistry (All Latest Edition)**
 - Lippincott's illustrated Biochemistry
 - Text Book of Medical Biochemistry ChatterJae Shindae
 - Harper's illustrated Biochemistry
 - Leheinger Biochemistry (All Latest Edition)
 - By Dinesh puri
 - Lehingers
- **Pathology (All Latest Edition)**
 - Pathological Basis of Disease (Kumar Abbas Fastau) Robbins and Cartons
 - Long Jawetz Melinick & Adelburg Medical Microbiology
 - General Pathology Walter and istrail
 - Parasitology (Black Lock)
 - Essential Haematology (Av. Hoffbrand)
 - Practical Haematology
- **Gynaecology and Obstetrics (All Latest Edition)**
 - Dewhurts Text Book of Obstetrics and Gynecology
 - Obstetrics by ten teachers
 - Gynecology by Ten teachers
 - Evidence based text book of Gynecology.
And other Latest and updated edition
- **Medicine (All Latest Edition)**
 - Davidson's Principles and practice of Medicine
 - Clinical Medicine Parveen Kumar and Clark
 - Current medical diagnosis and treatment
- **Surgery (All Latest Edition)**
 - A manual of Clinical surgery
 - Bailey and Love's Short Practice of Surgery 26th Edition
 - Test book of Cuscheri 6th Edition
 - Ringachairi text book.
 - Operative surgery TARQUOHAUSONS and KIRK (Latest)
 - S.DAS
 - Himilton Bailly
 - Oxford (Operative and Clinical) Surgery)

- **Plastic Surgery – Burn Surgery.**

- GRAB & SMITH Plastic Surgery
- Fundamental Treatment of Plastic Surgery
- Plastic Surgery emergencies (Jamal M. Bullock)
- Essential of Plastic Surgery 2nd Edition Jeffery E. Janis
- Total Burn Care 4th Edition David N. Hemdon

- **Pediatrics**

All latest updated editions

- Basis of pediatrics (8th edition)
- Nelson Text book of paediatrics (28th Edition)
- Nelson Essential of paediatrics (7th Edition)

- **Ophthalmology (EYE)**

All latest updated editions

- **ENT**

All latest and updated editions

- **Tooth Morphology**

- Wheeler

- **Oral Biology**

- Ten Cate's

- **Science of Dental Material** (All latest and updated edition)

- Maccab applied dental material
- E.C combe note on Dental material
- Craige dental material.

- **Nursing Books.**

- Nursing Theories. Aligood
- Sudharth
- Nursing ethics
Ethics issue on contemporary nursing Margret 3rd edition

LIST OF BOOKS DENTAL DEPARTMENT

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
1ST PROFESSIONAL BDS (1ST & 2ND SEMESTER)						
SCIENCE OF DENTAL MATERIALS						
1	Philip' Science of Dental Materials	Philip	11th Edition	10		
2	Craig's Restorative Dental Materials	Craig's	10th Edition	10		
3	Manappallil's Basic Dental Materials	Manappallil's	2nd Edition	10		
4	Mc Cabe's Applied Dental Materials		Latest edition	10		
ANATOMY						
1	Clinical Anatomy by Richard S Snell	Richard S Snell	Latest edition	10		
2	Wheatears Histology	Wheatears	Latest edition	10		
3	Langman's Embryology	Langman's	Latest edition	10		
BIO-CHEMISTRY						
1	Harper's Illustrated Biochemistry	Robert K. Murray	28th Edition	10		
2	Textbook of Medical Biochemistry	Chatterjea	7th Edition	10		
3	Lippincott's Illustrated Review Biochemistry	Champe	4th Edition	10		
4	Principles of Biochemistry.	Lehninger	4th Edition	10		
5	Textbook of Biochemistry with Clinical Correlations.	Devlin TM	5th Edition	10		
PHYSIOLOGY						
1	Text Book of Physiology	Guyton & Hall	11th Edition	10		
2	Review of Physiology	Ganong.	23rd Edition	10		
3	Physiology Journal For Practical		Latest edition	10		
2ND PROFESSIONAL BDS (3RD & 4TH SEMESTER)						
ORAL BIOLOGY & TOOTH MORPHOLOGY						
1	Orban's Oral Histology and Embryology,	S.N. Bhaskar	Latest edition	10		
2	Oral Histology (Development, Structure and Function),	A.R. Tencate	Latest edition	10		
3	Oral Development and Histology,	James K. Avery	Latest edition	10		
4	Introduction to Oral Biology and Tooth Morphology,	Scott & Symons	Latest edition	10		
5	Wheeler's Oral Biology and Tooth Morphology and Morphology,	Major M. Ash	Latest edition	10		
6	Concise Oral Biology and Tooth Morphology and Morphology	James L.Fuller	Latest edition	10		
7	Oral Embryology,	Sperber	Latest edition	10		
8	Oral Physiology,	Cristopher Lavelle	Latest edition	10		
9	Physiology of Mouth,	Jenkins	Latest edition	10		
10	An Atlas of Oral Anatomy,	Berkoritz, G.R.Holland	Latest edition	10		
COMMUNITY & PREVENTIVE DENTISTRY						
1	Community Dentistry	Soben Petter	Latest edition	10		
2	Community & Preventive Dentistry	Joseph John	Latest edition	10		
GENERAL PATHOLOGY						
1	Pathologic Basis of Disease	Robinson's	Latest edition	10		
2	Pathology Basic of Disease	Robinson's	Latest edition	10		

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
GENERAL PHARMACOLOGY						
1	Basic and clinical Pharmacology	Benteng-Katzung	Latest edition	10		
2	Illustrated Pharmacology	Lippincott.	Latest edition	10		
JUNIOR PROSTHETICS						
1	Complete Denture Prosthodontics Clinical and Laboratory Procedure	Bernard Levin, Glenn D. Richardson	Latest edition	10		
2	Removable Partial Prosthodontics	McCracken	Latest edition	10		
JUNIOR OPERATIVE						
1	Atlas of Operative Dentistry		Latest edition	10		
3RD PROFESSIONAL BDS (5TH & 6TH SEMESTER)						
ORAL PATHOLOGY						
1	Shafer's Textbook of Oral Pathology.	Shafer's	6th Edition	10		
2	Soams & Southam Text Book of Oral Pathology 4th Edition.	Soams & Southam	4th Edition	10		
3	Regezi Oral Pathology: Clinical Pathologic Correlations,	Regezi	5th Edition	10		
4	Cawson's Essentials of Oral Pathology and Oral Medicine,.	Cawson's	8th Edition	10		
PERIODONTOLOGY						
1	Textbook of Clinical Periodontology by Carranza's	Newman Takei Carranza's	10th edition	10		
2	Textbook of Clinical Periodontology	Jan Lindhe	Latest edition	10		
ORAL MEDICINE						
1	Burket's Oral Medicine	Burket's	Latest edition	10		
2	Cawsons Intro to Oral Pathology and Oral Medicine	Cawsons	Latest edition	10		
GENERAL SURGERY						
1	Bailays and Loves Short Practice of Surgery	Bailays and Loves	Vol-I	10		
2	Bailays and Loves Short Practice of Surgery	Bailays and Loves	Vol-II	10		
3	A Manual of Clinical Surgery	S.Das	Latest edition	10		
GENERAL MEDICINE						
1	Bailays and Loves Short Practice of Medicine	Bailays and Loves	Vol-I	10		
2	Bailays and Loves Short Practice of Medicine	Bailays and Loves	Vol-II	10		
PROSTHODONTICS						
1	MacCracken's Removable Partial Dentures	MacCracken's	Latest edition	10		
2	Boucher's Treatment of Partially Edentulous patients	Gavin P Renner	Latest edition	10		
3	Miller's Removable Partial Dentures	Miller's	Latest edition	10		
4	Designing Removable Partial Dentures	John Osborn	Latest edition	10		
5	Atlas of Removable Partial Dentures	Devenport	Latest edition	10		
ORAL & MAXILLOFACIAL SURGERY						
1	Contemporary Oral & Maxillofacial Surgery	James R. Hupp	6th Edition	10		

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
2	Text Book of Local Anesthesia	Geofry	Latest edition	10		
3	Text Book of Local Anesthesia	Malamad	5th Edition	10		
OPERATIVE DENTISTRY						
1	Art & Science of Operative Dentistry		Latest edition	10		
FINAL PROFESSIONAL BDS (7TH & 8TH SEMESTER)						
OPERATIVE DENTISTRY						
1	Arts & Science of Operative Dentistry	Sturtevant's	6th edition	10		
2	Summit's Fundamentals of Operative Dentistry	Hilton Ferracane Broome	4th edition	10		
ORAL & MAXILLOFACIAL SURGERY						
1	Contemporary Oral & Maxillofacial Surgery	James R. Hupp	5th Edition	10		
2	Text Book of Local Anesthesia	Geofry	Latest edition	10		
3	Text Book of Local Anesthesia	Malamd	Latest edition	10		
4	Killeys Fractures of the Mandible (A Clinical Approach)	Killeys	Latest edition	10		
5	Killeys Fractures of the Middle Third of the Facial skeleton (A Clinical Approach)	Killeys	Latest edition	10		
PROSTHODONTICS						
1	Boucher's Prosthodontics treatment for edentulous Patients	Dicky and Zarb	11th edition	5		
2	Mac Crake n's Removable partial dentures,	Mac Crake n's	11th edition	5		
3	Planning and making crowns and bridges	B. G. Smith		5		
4	Atlas of Removable Partial Denture Design	Russell J. Stratton, Frank J. Wiebelt	1st edition	5		
5	Stewart's Clinical Removable Partial Prosthodontics (Phoenix, Stewart's Clinical Removable Partial Prosthodontics)	Rodney D. Phoenix , David R. Cagna , Charles F. Defreest	4 edition	5		
6	McCracken's Removable Partial Prosthodontics	Alan B. Carr DMD MS , David T. Brown DDS MS	12 edition	5		
7	Removable partial denture design: Outline syllabus	Arthur J Krol	5th edition	5		
8	Understanding Partial Denture Design	Kenneth Tyson, Robert Yemm, Brendan Scott	Latest edition	5		
9	A Colour Atlas of Removable Partial Dentures	J.C. Davenport, R.M. Basker, J.R. Heath, J.P. Ralph	Latest edition	5		
10	A Clinical Guide to Removable Partial Dentures	Dr Bassam	Latest edition	5		
11	Removable Partial Dentures: A Clinician's Guide	John D. Jones, Lily T. Garcia	Latest edition	5		
12	Removable prosthodontic techniques	John B. Sowter, Roger E. Barton	Latest edition	5		
13	Advanced Removable Partial Dentures	James S. Brudvik	Latest edition	5		

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
14	Prosthodontics in Clinical Practice	Robert S Klugman	Latest edition	5		
15	Fixed Posthodontics Fundamentals of Tooth Preparations for Cast Metal and Porcelain Restorations	Author: H. T. Shillingburg	Latest edition	5		
16	Contemporary Fixed Prosthodontics	Stephen F. Rosenstiel, Martin F. Land, Junhei Fujimoto	4th edition	5		
17	Fundamentals of Fixed Prosthodontics	Herbert T. Shillingburg	3rd edition	5		
18	Introduction to metal ceramic technology	W. Patrick Naylor, James C. Kessler, Arlo H. King	1992	5		
19	Bonded porcelain restorations in the anterior dentition: A biomimetic approach	Pascal Magne, U. Belser	2002	5		
20	Esthetics of Anterior Fixed Prosthodontics	Gerard Chiche, Alain Pinault	1994	5		
21	Smile Design: A Guide For Clinician, Ceramist, And Patient	Gerard J. Chiche	2004	5		
22	Fixed Prosthodontics: Principles and Clinics	H. W. Anselm Wiskott	1st edition	5		
23	Fixed prosthodontics in dental practice	P Smith		5		
24	Textbook of Complete Dentures, 6th Edition	Arthur O. Rahn, John R. Ivanhoe, Kevin D. Plummer		5		
25	Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Protheses	George A. Zarb, Charles L. Bolender, Steven E. Eckert, Aaron H. Fenton, Rhonda F. Jacob, Regina Mericske-Stern	12th edition	5		
26	Functional Occlusion: From TMJ to Smile Design	Peter E. Dawson DDS	1st edition	5		
27	Textbook of Complete Denture Prosthodontics	Sarandha Jaypee Brothers Publishers	2008	5		
28	Complete Dentures: A Clinical Manual for the General Dental Practitioner	Hugh Devlin	1st edition	5		
29	Techniques in Complete Denture Technology	Duncan J. Wood, Tony Johnson (Editor)	1st edition	5		
30	The Complete Denture: A Clinical Pathway	Michael I. Macentee		5		
31	Complete Dentures: From Planning to Problem Solving: Prosthodontics 2 (Quintessentials of Dental Practice)	P. Finbarr Allen, Sean McCarthy, Nairn H. F. Wilson(Editor)	1st edition	5		

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
32	Textbook of Prosthodontics	Nallaswamy	Latest edition	5		
33	A Clinical Guide to Complete Denture Prosthetics	Dr Bassam	2000	5		
34	Complete Denture Manual	Dr Bassam	2009	5		
35	Clinical Maxillofacial Prosthetics	Dr Bassam	Latest edition	5		
36	Complete Dentures: From Planning to Problem Solving	P. F. Allen and S. McCarthy Surrey, Quintessence	Latest edition	5		
37	Essentials Of Complete Denture Prosthodontics	Sheldon Winkler	Latest edition	5		
38	Complete Denture Prosthetics: A Clinical and Laboratory Manual	Nairn and Neill	Latest edition	5		
39	Contemporary implant dentistry	Carl E. Misch	Latest edition	5		
40	Bone Biology, Harvesting, Grafting for Dental Implants: Rationale and Clinical Applications	Arun K. Garg, Arun K. Garg	Latest edition	5		
41	Dental Implant Prosthetics	Carl E. Misch	1st edition	5		
42	Clinical and Laboratory Manual of Implant Overdentures	Hamid Shafie		5		
43	Dental Implant Complications: Etiology, Prevention, and Treatment	Stuart J. Froum (Editor)	1st edition	5		
44	Implant Laboratory Procedures: A Step-by-Step	Carl Drago, Thomas Peterson	1st edition	5		
45	Implant Restorations: A Step-by-Step Guide	Carl Drago, Thomas Peterson	1st edition	5		
	ORTHODONTICS					
1	Contemporary Orthodontics	Willam R Proffit	5th edition	5		
2	Contemporary treatment of dentofacial deformity	Willam R Proffit	Latest edition	5		
3	Management of TMD & Occlusion	Jeffery P Okeson	7th Edition	5		
4	Hand Book of Orthodontics	Martyn Cobourne	Latest edition	5		
5	Temporary anchorage device in Orthodontics	Ravindra Nanda	Latest edition	5		
6	Esthetics & Biomechanics in Orthodontics	Nanda	2nd Edition	5		
7	Current principal as Technique in Orthodontics	Graber	5th edition	5		
8	The Art & Science	S.I Bhalaji	5th edition	5		
9	Orthontics Diagnosis	Thomas Rokosi	Latest edition	5		
10	Orthodontics & Orthopaedic treatment mixed dentition	Mc Namara	Latest edition	5		
11	Biological mechanisim of tooth movement	Vinod Krishan	2nd Edition	5		
12	Systemized Orthodontic treatment mechanics	Martyn Cobourne	Latest edition	5		
13	Clinical cases in Orthodontics	Martyn Cobourne	Latest edition	5		
14	Orthodontics cephalomaterly	Antharasios E Anthanasion	Latest edition	5		
15	Removable Orthodontics appliances	K.G Issacson JD muir R.T Reed	Latest edition	5		

S.No:	Title	Author	Edition	Required	Unit Rate	Total Amount
16	Retention & Stability in Orthodontics	Nanda	Latest edition	5		
17	Essentials of Orthodontics Diagnosis & Treatment	Robert Staley & Neil T Reske	Latest edition	5		
18	Orthodontics imparted teeth	Adrian Becker	3rd edition	5		
19	Lingual Orthodontics		2nd Edition	5		
20	Orthodontics Review	Mosby	Latest edition	5		
21	Risk management in Orthodontics		Latest edition	5		
Total Titles				960		

DEMOND OF BOOKS INSTITUTE BIOMEDICAL

S.no.	Author	Title of Book	Volum/ Edition	Quantity	Unit Rate	Total Amount
1	Stewart Carlyle Bushong	Radiologic Sciences for Technologists	10th	5		
2	Karen M. Mudry	Biomedical Imaging (Principles and Applications in Engineering	Latest	5		
3	Troy Francombe ,Krzysztof Iniewski	Medical Imaging: Technology and Applications	latest	5		
4	J.H. van Bommel and M.A Musen	Handbook of Medical Informatics	latest	5		
5	M A Flower	Handbook of Medical Informatics	2nd	5		
6	David J. Lubliner	Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health	Latest	5		
7	George C. Kagadis, Steve G. Langer	Informatics in Medical Imaging	Latest	5		
8	KayvanNajarian, Robert Splinter	Biomedical Signal and Image Processing	2nd			
9	Jospeh Tan	Medical Informatics, Concepts, Methodologies, tools and applications	Latest	5		
10	Joseph D. Bronzino Donald R. Peterson	Biomedical Signals, Imaging, and Informatics	4th	5		
11	D Reddy	BIOMEDICAL SIGNAL PROCESSING Paperback Principles and technique	Latest	5		
12	Prof. Rakesh Kumar	Bio-Medical Signal Processing Paperback	Latest	5		
13	Frank C. Hoppensteadt, Charles S. Peskin	Modeling And Simulation in Medicine and Life Sciences	Latest	5		
14	David M.Skapura	Building Neural Networks		5		
15	Rory A Cooper	Rehabilitation Engineering Applied to Mobility and Manipulation		5		
16	Sujata V.Bhat	Biomaterials		5		
17	V.Rajaraman	Computer Basics and C Programming		2		
18	Irene Joos, Ramona Nelson, Marjorie Smith	Introduction to computers for healthcare professionals	6th	3		
19	U Satyanarayana	Text Book of Biochemistry	Latest	5		
20	Donald Voet, Judith G. Voet	Biochemistry, 4th Edition	4th	2		
21	J.L. Jain	Fundamentals of Biochemistry		5		
22	Chatterjee	Principles Of Biochemistry	Latest	5		
23	Lehninger	Principles Of Biochemistry	Latest	5		
24	David A.Winter	Biomechanics and motor control of human Movement	Latest	5		
25	Schnechbronzino	Biomechanics principles and application	Latest	5		
26	Buchbinder Sharon	Introduction to healthcare management	Latest	5		
27	Kaluzny, Warner, Waren, Zelman	Management of health sciences	Latest	5		
28	Caroline Whitbeck	Ethics in engineering practice and research	Latest	5		
29	John strain & Simon Robinson	The Teaching & practice and professional ethics	Latest	5		
30	Krishnan B. Chandra	The Human Circulation	Latest	5		
31	David Rubenstien, Mary D	An Introduction To Fluid Mechanics, Macrocirculation And Microcirculation	Latest	5		

S.no.	Author	Title of Book	Volum/ Edition	Quantity	Unit Rate	Total Amount
32	Lee Waite	Applied Biofluid Mechanics	Latest	5		
33	Jaakko Malmivuo	Bio electromagnetism	Latest	5		
34	Gerardo Sanchez	Health And Medical Biomagnetism: Biomagnetic Pair	Latest	5		
35	Mayer Kutz	Standard Handbook Of Biomedical Engineering & Design	Latest	5		
36	Ganesh R Naik	Recent Advances In Biomedical Engineering	Latest	5		
37	Jue, Thomas	Biomedical Application Of Biophysics	Latest	5		
38	VK Mehta & Rohit Mehta	Basic Electrical Engineering	Latest	5		
39	VK Mehta & Rohit Mehta	Principle of electronics" S. Chand &co New Delhi	Latest	5		
40	Togawa, Tatsuo	Biomedical Transducers & Instruments	Latest	5		
41	Alok Jain	Power Electronics and Its Applications Book by Alok Jain	Latest	5		
42	A.S. Sedra & K.C. Smith	Microelectronic Circuits, Oxford University Press	Latest	5		
43	Robert B. Northrop	,Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation (Biomedical Engineering)	Latest	5		
44	Howard M Yanof	Textbook of Biomedical Electronics	Latest	5		
45	Manera A.S	Solid State Electronic Circuits	Latest	5		
46	Robert L. Boylestate	Electronic component & devices	Latest	5		
47	Steward H.E. & Annyn	Engineering Electronics" Becon Inc	Latest	5		
48	Hayt and Neudeck	Electronic Circuit Analysis and Design", Houghton Mifflin Company, Boston.	Latest	5		
49	Robert F. Coughlin	Operational Amplifiers & Linear Integrated Circuits	Latest	5		
50	Reinaldo Perez	Design Of Medical Electronic Devices	Latest	5		
51	Howard M. Berlin	Fundamental of Operational Amplifiers & Linear Integrated Circuits.	Latest	5		
52	Marlene Maheu, Ace Allen, Pamela Whitten	E-Health, Telehealth & Telemedicine: A guide to startup & success	1st	5		
53	Megh R Goyal	Biomechanics of Artificial Organs and Prostheses	2014	5		
54	Miller, Gerald E	Artificial Organs	1st	5		
55	Larry L. Hench & Julian R. Jones	Biomaterials, Artificial Organs and Tissue Engineering	1st	5		
56	Joseph D. Bronzino	Tissue Engineering and Artificial Organs	3rd	5		
57	Laurens Valk	The LEGO mindstorm EV3 Discovery Book	1st	5		
58	Daniele Benedettelli	The LEGO mindstorm EV3 Laboratory	1st	5		
59	Yoshihito Isogawa	The LEGO mindstorm EV3 idea Book	1st	5		
60	Terry Griffin	The Art LEGO mindstorm EV3 Programming	1st	5		

