

**ADMIN/044/TKC-2018**

April 10, 2018



To,  
The Director  
Administration and Finance,  
Sindh Secretariat  
4A, Barrack No. 8  
Court Road  
**KARACHI**

Subject: **PUBLISH ADVERTISEMENT ON SPPRA WEBSITE**

Please find tender for publication on Sindh PPRA website for purchase of Dialysis Consumables and Miscellaneous Medicines for use of The Health Welfare Committee at The Kidney Centre Post Graduate Training Institute for treatment of Mustahqeen-e-Zakat Patients for Zakat Fund.

The Pay Order of Rs. 2000/- in favor of Sindh Public Procurement Regulatory Authority, Karachi is enclosed herewith Pay Order of Habib Bank Limited, J.P.M.C Branch, Karachi No. B.C. No. 20031365 dated 9<sup>th</sup> April, 2018.

For **THE KIDNEY CENTRE**  
Post Graduate Training Institute

  
Salman Jameel  
Deputy Manager Material & Procurement

Encl

1. Pay Order of Rs. 2000/- in favor of Sindh PPRA, Karachi

SPPRA INWARD DIARY  
NO : 79110  
DATED 10-04-2018

# **TENDER FOR SUPPLY OF DIALYSIS CONSUMABLES & MISCELLANEOUS MEDICINES**

The Kidney Centre Post Graduate Training Institute invites sealed tenders from Suppliers (registered with Sales Tax and having NTN number) for the supply of above items for **Zakat Mushtahiq Patients** during the Financial Year July 2018 to June 2019.

**Eligibility:** Bidding will be conducted under SPP Rule 2010 clause 46(2), bidding procedures of SPP Rule 2010 (Amended 2013).

**Method of Procurement:** Single Stage Two Envelope.

## **Bidding/Tender Documents:**

1. **Issuance:** Documents will be issued from Procurement Department of The Kidney Centre Post Graduate Training Institute on any working day from 10<sup>th</sup> to 25<sup>th</sup> April, 2018 against pay order of Rs.1,000/= (non-refundable) in the name of The Kidney Centre-PGTI, Karachi.
2. **Submission:** Last date will be 27<sup>th</sup> April, 2018 at 11:00 am.
3. **Opening:** Will be opened on 27<sup>th</sup> April, 2018 at 12:00 noon.
4. **Place of issuance, submission, inquiries and opening will be:**  
**THE KIDNEY CENTRE POST GRADUATE TRAINING INSTITUTE**  
**197/9, Rafiqi Shaheed Road Karachi-75530**  
**PHONE:PABX 3566-1000 (10 Lines) Fax: 35661040, E-Mail: mail@kidneycentre.com**
5. **Terms & Conditions:**
  - a. The agreed rates for quantities of items to be ordered by TKCI will be valid for the period up to 30th June 2019.
  - b. The estimated annual quantities may vary and are not a binding on TKCI for annual purchase. The supplier will be responsible to supply additional quantities at the agreed rates in case of increase in requirement by TKCI and maintain the agreed rates in case the requirement decreases
  - c. TKCI will ensure payment of invoices within 30 days after presentation of valid invoice.
  - d. Applicable government taxes will be deducted by TKCI from the invoice value as per rules.
  - e. In case of dispute, an arbitrator shall be appointed with mutual consent and the decision of the arbitrator shall be final and binding on TKCI and the supplier.
  - f. Product Manufacturer name and origin should be mentioned.
  - g. The Consumables and medicines will be finally selected for procured by TKCI Technical committee in the basis of best value for money, rather than lowest price.
  - h. The medicines should be available at the TKCI.



**The Kidney Centre Post Graduate Training Institute**

**197/9, Rafiqi Shaheed Road**

**Karachi – 75530.**

**Phone: 35661000 – 10 Lines Ext. 276.**

**Fax: 35661040**

**Website: www.kidneycentre.com**

**PURCHASE COMMITTEE**

The Competent Authority is pleased to constitute following committee for upcoming all purchase of **Zakat Mushtahiq Patients** tender during the Financial Year July 2018 to June 2019.

1. Dr. Col. (R) M. Qasim Zaur – Head of HR & Administration Department (Member HWC) – Head of Procurement Committee
2. Dr. Umer Farooq – Member
3. Mr. Syed Zulfiqar Ali – Deputy Manager Finance – Member

**Terms of References of Committee are:**

- Facilitating and recommending approval or rejection for Purchasing Authority.
- Ensure compliance with TKCI Procurement Policy and Procedures, SPPRA rules etc.
- Recommend procurement method in case of emergency and direct contracting, etc.
- Declaring award of contracts to the lowest evaluated responsive bidders.
- Approval / preparation of bidding documents.
- Approval / preparation of evaluation report.
- Responsible for technical and financial evaluation of the bids.
- Acts as a source of advice on contract guidance and for specific cases raised by staff.

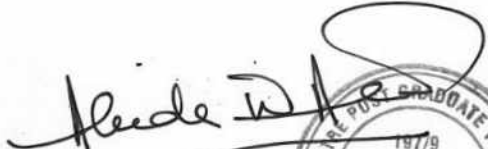
  
  
**Head of Procurement Committee**  
The Kidney Centre Post Graduate Training Institute  
KARACHI.


## REDRESSAL OF GRIEVANCES COMMITTEE

The Competent Authority is pleased to constitute following committee for upcoming all purchase of **Zakat Mushtahiq Patients** tender during the Financial Year July 2018 to June 2019. The Committee received any complaints from bidders for redressal of their grievances. A committee of the following is being constituted to look into the matter:

- |                              |                        |          |
|------------------------------|------------------------|----------|
| a. Prof. Dr. Aasim Ahmad     | The Kidney Centre      | Chairman |
| b. Representative A.G. Sindh |                        | Member   |
| c. Dr. Syed Aqeel Ahmed      | Tabba Kidney Institute | Member   |

The Committee is to put up report within 7 days.

  
**Abid Wahid Ahmed**  
CEO / Administrator  
The Kidney Centre Post Graduate Training Institute

  
197/9  
Rafiqi  
Shaheed Road  
Karachi-75530

### Distribution

#### **Action Copy:**

Prof. Dr. Aasim Ahmad  
Representative A.G. Sindh  
Dr. Syed Aqeel Ahmed

The Kidney Centre PGTI  
1st Floor, Audit & Accounts Complex, University Rd, Karachi  
Chief Operating Officer  
Tabba Kidney Institute  
F.B. Area, Karachi



**Details of Dialysis Consumables & Miscellaneous Medicines Items**

Bidders are requested to restrict their bids for following items only.

Item	Prescription	Capacity	Required Quantity	Unit	FOR Unit Price	C & F Unit Price
DIALYZER	(Surface area (0.7,0.8, 1, 1.2,1.3,1.4,1.5,1.6, 1.7, 1.8 & 1.9) Membrane = Transparent (Not Opaque)	Piece	1340			
BLOOD TUBING LINE	(Size required 8 mm)	Piece	6700			
FISTULA NEEDLES	(16 & 17 No)	Piece	13400			
BICARBONATE DIALYSIS SOLUTION	PART 'A' (288 box of 27.80Kg each) *	KG	9100			
	PART 'B' (200 box of 17.5 Kg each) *	KG	4000			

**PART 'A' \***

FINAL DIALYSATE ELECTROLYTE YIELD <small>(Acid/Bicarbonate/Water)</small>		CONCENTRATE COMPOSITION		PER MIX <small>(kilograms)</small>	<small>(Gm/Liter)</small> Concentrate	Dilute 1:14
Sodium	137 mEq/L	Sodium Chloride (NaCl)		24.9	263	5.84
Calcium	3.00 mEq/L	Calcium Chloride (CaCl <sub>2</sub> )		0.71	7.49	0.17
Potassium	2.00 mEq/L	Potassium Chloride (KCl)		0.64	6.71	0.15
Magnesium	0.75 mEq/L	Magnesium Chloride (MgCl <sub>2</sub> )		0.15	1.61	0.04
Chloride	106 mEq/L	Acetic Acid (CH <sub>3</sub> COOH)		1.02	10.8	0.24
Acetic Acid	4.00 mEq/L	Dextrose (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )		4.26	45.0	1.00
Dextrose	100 mg <sup>2</sup> /L					
Bicarbonate	37 mEq/L					

**PART 'B'\***

ELECTROLYTE YIELD (diluted 1:25.16)			CONCENTRATE COMPOSITION			
Sodium	37.0 mEq/L		Sodium Bicarbonate (NaHCO <sub>3</sub> )	Per Bag <small>(Grams)</small>	<small>(Gm/L)</small> Concentrate	Dilute 1:25.16
Bicarbonate	37.0 mEq/L			7692	81.3	5.11

**Supplier's Particulars**

Address:	
Contact Person:	
Telephone ,Fax No:& Cell #	
Suppliers NTN No:	
Suppliers GST No:	

\_\_\_\_\_  
(Signature)

Supplier's Stamp

\_\_\_\_\_  
(Name in Block Letters)

**Check List**

Please ensure to attach following with the tender form duly filled in, signed and stamped

- |   |  |
|---|--|
| a. Suppliers Letter Head.   |  |
| b. Tender form.   |  |
| c.. Bank Draft/Payorder of the earnest money.                       |  |
| d. Copies of registration certificates from.                        |  |
| (1). Income Tax Department.   |  |
| (2). Excise and General Sales Tax Department.                       |  |
| e. Brief profile of supplier giving detailed of previous contracts. |  |



# THE KIDNEY CENTRE

POST GRADUATE TRAINING INSTITUTE


## TENDER FOR SUPPLY OF DIALYSIS CONSUMABLES & MISCELLANEOUS MEDICINES



**THE KIDNEY CENTRE POST GRADUATE TRAINING INSTITUTE**  
**197/9, Rafiqui Shaheed Road, Karachi**

**INVITATION FOR BIDS**

1. Sealed bids are invited from eligible bidders for Supply of Dialysis Consumables & Miscellaneous Medicines etc. against funds provided in the year 2018 – 2019.
2. Bidding will be conducted under SPP Rule 2010 clause 46(2) single stage two envelop bidding procedures of Sindh Public Procurement Rule 2010 (Amended 2013) specified in this document in open to all interested bidders.
3. Interested bidders may obtain further information from the office of The Kidney Centre Post Graduate Training Institute, Karachi during the office hours.
4. A complete set of bidding documents may be purchased by interested bidders on the submission of a written application from Office of The Kidney Centre Post Graduate Training Institute, 197/9, Rafiqui Shaheed Road, Karachi, against pay order of Rs.1,000/= (non-refundable) in the name of The Kidney Centre-PGTI, Karachi.
5. Bids must be delivered to the address above upto 11:00 am on 27<sup>th</sup> April, 2018. All bids must be accompanied by a bid security/earnest money @3.5% of the total bid cost in shape of pay order. Late bids will be rejected. Bids will be opened in the presence of the bidders authorized representatives who choose to attend at the address above at 12:00 noon 27<sup>th</sup> April, 2018.

  
**Head of Procurement Committee**  
The Kidney Centre Post Graduate Training Institute  
KARACHI.





## INSTRUCTION TO BIDDERS

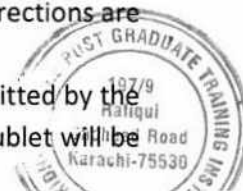
1. Bids shall remain valid for 90 days from the date of opening. A bid valid for a shorter period shall be rejected as being non-responsive.
2. The bidders shall quote their prices inclusive of all duties/taxes/Octroi transportation etc, and all other expenses on free delivery to consignee's end.
3. Price should be quoted in Figures & words both, failing which the offer will be ignored.
4. The bid prepared by the bidder shall comprise the following documents:
  - a. Bid Form & Price schedules duly completed by the bidder.
  - b. The bidder shall furnish a bid security @ 3.5% of the quoted value in the form of a pay order.
  - c. The original catalogue must accompany with offer and the equipment should comply/certified at CE/FDA approved.
  - d. Sole Agent Certificate/Authority Letter from the manufacturer must be provided by the bidder. No sublet will be accepted.
  - e. The service manual with circuit diagram will be provided (for equipment).
  - f. The bidder must confirm free installation/Demonstration at consignee's end as specified, three years free service from the date of installation, 05 years' service contract and availability of spare parts.
  - g. The supplier will be bound to supply the price list of spare parts and consumable at the time of tender i.e., for three years.
  - h. The supplier will be bound to provide free service during warranty period and to supply spare parts accessories of the supplied equipment on demand.
  - i. A certificate from the manufacturer that the offered machine/equipment being used in the country of origin.
  - j. A detail data sheet having description of the essential technical and performance characteristics of the offered equipment.
  - k. The original tender purchase receipt.
  - l. Bidders shall purchase separate tender document and furnish purchase receipts for alternate offer, in case they want to submit alternate offer. Any item's bid with alternate offers without separate purchase receipt (original) is supposed to be rejected.
  - m. The bidder shall furnish copy of valid Professional Tax (Excise & Taxation) Certificate/Income Tax Certificate/GST Registration Certificate.
  - n. Tenderers shall submit guarantee letter that the supplied Machinery / Equipment is the original/ brand new product / latest model, none of the part is replaced, old or refurbish.
  - o. Tenderers must be enclosed list of users in Sindh Pakistan of the quoted items. Bidder must submit the proof for the availability of workshop & trained engineers and qualified persons for the machines at Sindh for after sales service.
5. The price quoted by the bidder shall be fixed during the performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price or conditional will be treated as non-responsive and rejected.
6. The bidder shall prepare bid comprise on single envelope containing separately financial proposal and technical proposal in original. The envelope shall be marked as "FINANCIAL



PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letter to avoid confusion. The financial and technical bids, each consisting of the documents listed above. In Technical Proposal the bidder must provide the original Data Sheet and Technical Brochure, Income Tax, Sales Tax, Sole Agency Certificate and other documents; otherwise the bid will be ignored.

In Financial Proposal, the bidder should provide bid security/earnest money at the rate of 3.5% of the quoted value. A photocopy of the same should be attached with Technical Proposal but its value must not be disclosed and this can be achieved by placing a piece of paper on the place where amount is mentioned.

7. In case of imported items both C.I.F & DDP price should be quoted.
8. In case of purchase of C.I.F basis, letter of Credit will be opened. All the charges will be borne by the vendor. The required certificate will be issued by this office that the import has been made for this hospital, so as to avail the facility of exemption of duties / taxes, as per Government Rules / Policy and the terms & conditions regarding payment will be decided mutually by the procuring agency and the bidder, according to the SPP Rule-2010 (Amended 2013).
9. In case of purchase order issued on C.I.F. basis, the supplier / contractor will be entitled/eligible to claim 80% of the purchase order amount on submission of L/C in favour of consignee/hospital. Balance 20% amount can be claimed after delivery of the goods at consignee site by submission of original delivery challan.
10. In case of supply order placed on DDP basis the bidder should be supplied the quoted item on or before 15-06-2018.
11. All the (applicable) Government Taxes (Income Tax/ Stamp Duty) of the value of the contact amount will be deducted from the bills of the Contractors / Suppliers.
12. The purchase will initially open only the envelope marked "TECHNICAL PROPOSAL" in the presence of bidders or their representative who chose to be present at the time of bid opening date, time and place specified in the tender documents. The bidder or their representative who are present shall sign the attendance sheet. The envelope marked "Financial Proposal" shall be retained in the custody of purchaser without being opened till the completion of the Technical Evaluation.
13. Initially the bid evaluation will be performed after that Technical Specification will be evaluated by Technical Committee on the basis of the data sheet and the literature provided / submitted by the firm. Financial bids of technical qualified forms will be opened.
14. The equipment offered must be of latest version / generation and in case an old model is offered, it will be considered, even though it is as per the tender specifications.
15. All pages of the bid, except for un-amended printed literature, shall be initiated by the person or persons signing the bid.
16. The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons or persons signing the bid.
17. Bids shall be submitted either by the manufacturer or its sole agent, if submitted by the manufacturer itself then bid of authorized sole agent will be rejected. No sublet will be allowed.



18. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the bidder does not accept the correction of errors, its bid will be rejected.
19. The purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules 2010 (Amended 2013), without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the purchaser's action.
20. The purchasers reserves the rights to increase or decrease the quantity as per SPP Rule-2010 (Amended 2013).
21. Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder through advance acceptance. This will constitute the formation of the contact. Within sever (07) days after receipt of the Advance acceptance, the successful bidder shall furnish the performance security @ 5% of the contacted amount and will sign the contract agreement.
22. Bid validity can be extended as per SPP Rule 2010 (Amended 2013).
23. Distributor once nominated by the manufacturer will be for the whole contact period and manufacturer cannot change its distributor during the year in any case. In exceptional cases the tendering authority may approve changes.
24. The warranty period will commence from the date of commissioning of the unit as per report of the end user/technical person.
25. The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied:
  - a. 95% to 100% - no penalty.
  - b. 90% to 95% the warranty period will be extended by the number of days system in down.
  - c. 85% to 90% warranty period will be extended 1.5 time the down time period.
  - d. 80 to 85% warranty period will be extended two time for the down time period and supplier is supposed to give justification of delay.
  - e. Uptime less than 80% hospital will complain to the Principal to take action against the supplier and warranty will be the three time for the down time period.
  - f. However, PPM (Periodic Preventive Maintenance) will not consider in the down time and PPM of the system will be done as per manufacturer recommendation.

## **GENERAL & SPECIAL CONDITIONS OF CONTRACT**

1. The contract shall be governed by and interpreted in accordance with laws of the Islamic Republic of Pakistan.
2. Store is required immediately. The bidder may however give their short guaranteed delivery period by which the supply will be completed but not later than 45 days from date of purchase order. No extension will be granted / accorded for the supply.



3. The manufacturer should provide an undertaking that if his authorized contactor fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.
4. Except as otherwise specifically provided in the contact, the contactor shall bear and pay all taxes, duties, levies and charges assessed on the contracted.
5. The contracted price shall be made to the contractor as specified in the contract agreement, subject to the general principle / procedure of the Government of Sindh.
6. The contract shall be executed in accordance with the contract documents and procedures.
7. The purchaser or its representative shall inspect the Machinery / Equipment to confirm their conformity to the contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.
8. If the contractor fails to attain completion of the supply or installation within the time for completion shall pay to the purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the contract price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount of 10%. Once the "Maximum" is reached, the purchaser may consider termination of the contract.
9. The contractor warrants that the supplied equipment or any part thereof shall be free from defects in the design, engineering, materials etc. In case of defect in any part at the time of supply of installation it shall be replaced with new one instead of repair.
10. The purchaser, 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 contracted items within the period(s) specified in the contract, or within any extension thereof granted by the purchaser.
  - b. If the supplier fails to perform any other obligation(s) under the contract.
  - c. If the supplier, in the judgment of the purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
11. The bidder shall confirm the refund cost difference if the same goods is / was supplied at lower rates to any other Govt./Semi Government institution or Armed Forces in the Province or outside in the same fiscal year.
12. The purchaser reserves the right to increase/decrease or delete the quantities of goods etc. at the time of award of contract and also reserves the right to increase/decrease the quantity of goods and services originally specified in the contract without any change in unit price or other terms and conditions of goods at any time during the contract period.
13. Service charges @ current prevailing charges of the value of the contract will realized/charged by the A.G. Sindh, while making payment to the contractors for award of each contract.



## CRITERIA FOR EVALUATION OF BIDS

1. Earnest money submission.
2. Compliance of terms and conditions, required documents / information as described in the instruction of bidders, General and Special condition of the bid document. Bidder must qualify the bid evaluation. Only qualified bid evaluation bidders will be evaluated technically.
3. Relevant Experience and past performance of manufacturer / sole distributor in terms of supply & after sale service.
4. After sale service facility with availability of work shop, Technical staff, Tools and spare parts.
5. Authority letter from manufacturer with validity period not less than two years.
6. Submission of original Catalogue with complete mailing address of the company, telephone/Fax Nos. and website for each quoted item.
7. Technical Evaluations as per tender specification.
8. Operational cost (In case of equipment).
9. Delivery Schedule.
10. Evaluation of quoted price.



## UNDERTAKING

- a. That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
- b. I/We understand and confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt./Semi Govt. institution in the province in the same fiscal year.
- c. I/We undertake that, if any of the information submitted in accordance to this tender enquiry found incorrect, our contract may be cancelled at any stage on our cost and risk.

## CERTIFICATE

We guarantee to supply the stores exactly in accordance with the requirement specified in the invitation to this tender.

Signature of \_\_\_\_\_  
Name & Designation \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

**Details of Dialysis Consumables & Miscellaneous Medicines Items**

Bidders are requested to restrict their bids for following items only.

Item	Prescription	Capacity	Required Quantity	Unit	FOR Unit Price	C & F Unit Price
DIALYZER	(Surface area (0.7,0.8, 1, 1.2,1.3, 1.4, 1.5, 1.6, 1.7, 1.8 & 1.9)	Piece	1340			
	Membrane = Transparent (Not Opaque)					
BLOOD TUBING LINE	(Size required 8 mm)	Piece	6700			
FISTULA NEEDLES	(16 & 17 No)	Piece	13400			
BICARBONATE DIALYSIS SOLUTION	PART 'A' (288 box of 27.80Kg each) *	KG	9100			
	PART 'B' (200 box of 17.5 Kg each) *	KG	4000			

**PART 'A' \***

FINAL DIALYSATE ELECTROLYTE YIELD <small>(Acid/Bicarbonate/Water)</small>			CONCENTRATE COMPOSITION			
			PER MIX (kilograms)	(Gm/Liter) Concentrate	Dilute 1:44	
Sodium	137	mEq/L	24.9	263	5.84	
Calcium	3.00	mEq/L	0.71	7.49	0.17	
Potassium	2.00	mEq/L	0.64	6.71	0.15	
Magnesium	0.75	mEq/L	0.15	1.61	0.04	
Chloride	106	mEq/L	1.02	10.8	0.24	
Acetic Acid	4.00	mEq/L	4.26	45.0	1.00	
Dextrose	100	mg%				
Bicarbonate	37	mEq/L				

**PART 'B' \***

ELECTROLYTE YIELD (diluted 1:25.16)			CONCENTRATE COMPOSITION		
			Per Bag (Grams)	(Gm/L) Concentrate	Dilute 1:25.16
Sodium	37.0	mEq/L	7692	81.3	3.11
Bicarbonate	37.0	mEq/L			



# THE KIDNEY CENTRE

## POST GRADUATE TRAINING INSTITUTE

### ANNUAL PROCUREMENT PLAN

The procurement plan of following items for Zakat Mushtahiq Patients thru tender during the Financial Year July 2018 to June 2019.

Sr. No.	Item	Description	Capacity	Req. Qty.	Estimated Unit Cost	Estimated Total Cost	Fund Allocated	Source of Funds	Proposed Procurement Method	Timing of Procurements				Remarks
										1st	2nd	3rd	4th	
1	DIALYZER	(Surface area (0.7,0.8, 1, 1.2, 1.3,1.4, 1.5, 1.6, 1.7, 1.8 & 1.9) Membrane = Transparent (Not Opaque) (Size required 8 mm)	Piece	1340		08 Million	08 Million	Zakat Fund	Single Stage Two Envelops				4 <sup>th</sup> Qtr.	
2	BLOOD TUBING LINE	(16 & 17 No)	Piece	6700										
3	FISTULA NEEDLES	PART 'A' (288 box of 27.80kg each) *	Piece	13400										
4	*BICARBONATE DIALYSIS SOLUTION	PART 'B' (200 box of 17.5 Kg each) *	KG	9100										
			KG	4000										

**\* Part 'A'**

FINAL DIALYSATE ELECTROLYTE YIELD (Acid/base/trace/antibiotic)	CONCENTRATE COMPOSITION	PER BAG (µl/cc/dram)	(Gm/Liter) Concentrate	Dilute
Sodium 137 mEq/L	Sodium Chloride (NaCl)	24.9	263	5.84
Calcium 3.00 mEq/L	Calcium Chloride (CaCl <sub>2</sub> )	0.71	7.49	0.17
Potassium 0.75 mEq/L	Potassium Chloride (KCl)	0.64	6.71	0.15
Chloride 106 mEq/L	Magnesium Chloride (MgCl <sub>2</sub> )	0.15	1.61	0.04
Acetic Acid 4.00 mEq/L	Acetic Acid (CH <sub>3</sub> COOH)	1.02	10.8	0.24
Dextrose 100 mg %	Dextrose (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	4.26	45.0	1.00
Bicarbonate 37 mEq/L				

**\* Part 'B'**

ELECTROLYTE YIELD (diluted 1:25:16)	CONCENTRATE COMPOSITION	Per Bag (Grams)	(Gm/L) Concentrate	Dilute
Sodium 37.0 mEq/L	Sodium Bicarbonate (NaHCO <sub>3</sub> )	7692	81.3	3.11
Bicarbonate 37.0 mEq/L				



Head of Procurement Committee  
The Kidney Centre Post Graduate Training Institute  
KARACHI.