

All India Institute of Medical Sciences Bathinda (Punjab)

1 Mandi Dabwali Road,
Bathinda, Punjab-151001



Tender for Rate Contract File for the Dialysis Unit

1.1.1.1 Ref. No. : AIIMS/BTI/Tender/62

Publishing Date : 27 Sep 2022 05:00 pm

Pre-Bid Meeting : 11 Oct 2022 03:00 pm

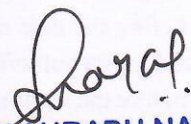
Bid Submission Start Date : 27 Sep 2022 05:00 pm

Last Date of Bid Submission : 19 Oct 2022 12:00 pm

Bid Opening : 20 Oct 2022 12:00 pm

Tender documents may be downloaded from institute's web site www.aiimsbathinda.edu.in (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>

Email: procurementcellaiimsbti@gmail.com


DR. SAURABH NAYAK
Assistant Professor
Dept. of Nephrology
AIIMS Bathinda.

1.1.1.2 TENDER NOTICE

**Procurement of Rate Contract File for the Dialysis
Unit at AIIMS, Bathinda,
Mandi Dabwali Road, Bathinda, Punjab-151001**

1.E-tenders in Two Bids (Technical & Financial) are invited on behalf of the Executive Director, All India Institute of Medical Sciences, Bathinda from interested and eligible manufacturer or their authorized distributors/dealers, for providing **Rate Contract File for the Dialysis Unit at AIIMS Bathinda** for the period of two years further extendable (up to 1 year) on mutual consent.

2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.

3. The complete bidding process is online. Bidders should be possession of valid digital Signature Certificate (DSC) for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0120-4001 002.

4. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.

5. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

6. Hard Copy of Bid security declaration tender fee and documents for technical bid etc. must be delivered to AIIMS, Bathinda on or before last date/time of Bid Submission as mentioned above. The bid with financial bid will be summarily rejected.

7. The tender shall be submitted online in two parts, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

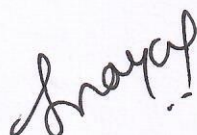
1.1.1.3 The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

8. Any future clarification and/or corrigendum(s) shall be communicated through <https://eprocure.gov.in/eprocure/app> or through our website: www.aiimsbathinda.edu.in. The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only these bids, taking care of such corrigendum(s) shall be considered for finalization of the tender.

9. Bidder should necessarily enclose a covering letter mentioning a summary of applied document with proper numbering. Secondly, bid should also attach a compliance sheet as per specification mentioning that they are complying to all specification or have any variation.

10. The pre bid conference would be held through video conferencing. Interested firms are requested to share their details through email for video conferencing before the date and time of the conference. All firm's representative who are attending the pre bid meeting, shall produce an authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letter head. The query may also be submitted through email on procurementcellaiimsbti@gmail.com.

11. All the duly filled/completed pages of the tender should be given serial /page number on each page and



signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected outrightly

12. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filled up carefully by the tenderer. All corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

13. **Bid Security:** - A Bid Security Declaration should be submitted with technical bid in place of Bid Security/EMD as per Office Memorandum No. 9/4/2020-PPD dated 12 Nov 2020 by Ministry of Finance, Government of India.

14. Bidders are not allowed to submit more than one bid for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition blacklisted for participating in future tenders by AIIMS Bathinda.

15. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within twenty-one (21) days from the date of award of this tender in his favour and also required to furnish the **Security Deposit equals to 3% of the contract value** in the form of FD/BG/TD/CD for **60 days extra to the contract period** from any Nationalised/Schedule bank duly pledged in favour of "Executive Director AIIMS Bathinda" & payable at Bathinda only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above after its validation for the required period. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 21 (twenty-one) days after the issue of **Letter of Award** of Work, his bid security (EMD) shall be forfeited and award of tender in suppliers favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Bathinda.

16. The needful action will be taken if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.

17. The bid shall be valid and open for acceptance by the competent authority of AIIMS Bathinda for a period of 180 (one hundred eighty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law.

18. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for Clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.

19. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions of the contract and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.

20. The competent authority of AIIMS, Bathinda reserves all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any administrative term and condition/specifications of the tender enquiry after due discussion in pre-bid conference. This will be communicated and shown over the website of the Institute. No representation will be considered after pre-bid meeting and **bidders may ensure its queries only in pre-bid meeting**. AIIMS, Bathinda also reserves the right to reject any bid which in his opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.

21. ~~Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.~~



22. The tender form is not transferable.
23. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
24. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the procurement and execution of this Tender.
25. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site (for equipment).
26. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged in addition to the cost of re- tender. The supplier is required to provide the demonstration of equipment at AIIMS premises to the AIIMS representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the AIIMS, representative.
27. It must be mentioned clearly whether bidder is a manufacturer/sole distributor/ sole agent for the items for which he is quoting.
- Manufacturer** must add a certificate that item(s) is manufactured by them as per range of products.
 - Sole Manufacturers** must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private organization and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
 - Authorized agents** must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals signed by a competent person and comes in proforma given in attach must duly supported by a notarized affidavit on Indian Non-Judicial Stamp Paper of Rs.100/- (Rupees One Hundred only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.
28. In case the bidder on whom the supply order has been placed, fails to make supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Bathinda) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and action will be taken as per bid security declaration.
29. The bidders should have furnished a copy of GST registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected.
30. **Turnover provisions:** - (i) The tenderers should submit along with the tender, a photo state copy of the last three years Annual Accounts with Audit certificate by Chartered Accountant, Income Tax returns and a copy of current valid income tax clearance certificate (IT CC), otherwise bidder will not be considered for administrative evaluation (in evaluation of technical bid) and will be declared **disqualified** in technical evaluation.

- (ii) In case of bidder falls under Section 44AD/44ADA/44AE of Income Tax shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.
- (iii) In case of supplier is an Indian Agent, the firm can submit copies of purchase orders issued in favour of firm (*As the payment is made through LC directly to foreign manufacturer and equipment payment does not exist in the book of account of the supplier*) in support to its turnover whatever amount is getting short.

31. **Sample/demonstration:** - In case, the item required prior submission of sample/ performing demonstration, tenderer will have to submit sample/perform demonstration of the equipment/item to the competent authority of the institute, the bidder will have to born all the expenses for the same. Non submission of sample/non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.

32. The tenderer hereby guarantees that the equipment/consumable supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The kits/consumables at the time of receiving should have minimum 6 months shelves life (expiry). The tenderer will have further guarantees that the said equipment/consumable would continue to conform to the description and quality aforesaid for a period of **two (2) years guarantee period**, from the date of installation of the said equipment/consumable to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment/consumable be discovered not to confirm to the description and quality as required as per specification or not giving satisfactory performance or have deteriorated, the decision of the Purchaser in that behalf shall be final and binding on the tenderer and the Purchaser shall be entitled to call upon the tenderer to rectify/replace the equipment/consumable or such portion there of as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the tenderer and in such an event, the above mentioned warranty period shall apply to the equipment/consumable replaced from the date of replacement thereof. In case of failure of the tenderer to rectify or replace the equipment/consumable, within specified time, the purchaser shall be entitled to recover the cost with all expenses from the tenderer for such defective equipment.

33. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original, failing which, tender may be disqualified.

34. **Force Majeure:** Any failure or omission to carryout of the provisions of this supply by the supplier shall not give right for any claim by supplier and purchaser to one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.

35. The equipment installed should be up for 95% of the total warranty time. If the equipment is down for more than 5% suitable action shall be taken against the supplier including imposition of penalty as deemed fit.

36. If there is a close system the tenderer shall ensure and will have to submit an affidavit on Indian Non Judicial stamp paper of Rs.100/- along with technical bid that spare parts and consumables for these equipment's/instruments/item will be available at reasonable fixed rates for next 10 (ten) years, such rates should not



be more than the rates supplied to institutes of national importance.

37. The successful Bidder shall at all times agree to indemnify and keep indemnified the purchaser against all losses, damages which may arise in respect of action/inactions of such Bidder or breach of any term of this tender by such Bidder. All claims regarding indemnity shall survive the termination of the contract with such Bidder.

38. In case the vendor fails to supply the spare parts or fails to provide the agreed maintenance during the prescribed period, as per the terms of contract, the purchaser is automatically entitled to procure the required parts and hire services from the market at the risk and cost of the vendor, such inability of bidder will entail forfeiture the security deposit. The purchaser also reserves the right to terminate the contract on immediate notice, if the vendor fails to comply with this clause for more than one instance.

39. **Liquidated damage/demerge:** - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited. The supply of equipment must be in single consignment, inclusive of all parts & accessories in adherence to the specification so as to make the equipment fully functional at the time of the installation. No installation repeat shall be signed in case of absence of any part as per the specification.

40. **Legal Jurisdiction:** - The Courts at Bathinda alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.

1.1.1.4 Applicable Law:

41. The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.

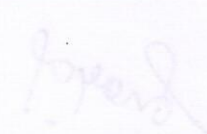
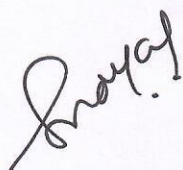
42. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Bathinda/Chandigarh, Punjab India only.

43. Except as otherwise provided under this Contract for immediate termination of the Contract, in the event of a disputes which may be arising out of the execution of the tender contract, the matter will be referred to the Deputy Director (Administration). Appeal against the decision of the DDA will lie to the Director, AIIMS Bathinda and his decision shall be final and binding upon both the parties.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the

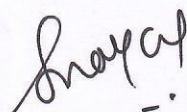
Note- Please sign each page of document including terms & conditions & tender bidder)



1.2 (B) Financial terms and conditions

1. Rates are strictly required to be offered/quoted on the prescribed "Financial Bid format". Financial bid submitted without prescribed format may not be considered and will be deemed improper subject to the condition that there is a requirement to mention another item which are not mentioned in the said format.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for AIIMS Bathinda (Site of installation/Use).
3. The L1 will be decided schedule wise. For each schedule the tender will be awarded to the bidder who quote least price among all bidders and will be declared as L1. There may be more than one(L1) vendors in this tender.
4. The supplier has to submit a notarized affidavit on Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than previously supplied to any government Institute/Organization/reputed Private Organization or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the AIIMS, Bathinda. If such affidavit is not submitted, tender will be out rightly rejected. *(Part of technical bid)*
5. If the price of the contracted articles is/ are controlled by the Government, in no circumstances the payment will be higher than the controlled rate.
6. Tender will be regarded as constituting an offer open to acceptance in whole or in part at the discretion of the competent authority of the institute for a period of 180 days (6 months) valid from the date of opening of the tender by the committee.
7. Order shall be issued for tentative annual requirement on actual need basis. Bills in triplicate for the items supplied by the selected firm(s), should be raised for payment. Payment shall be released after it is ensured that the items/quantity and quality of items supplied are to the entire satisfaction of this office and accepted. If any item is found to be defective, or not of the desired quality, the same shall be replaced immediately, for which no extra payment shall be made by AIIMS, Bathinda.
8. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.
9. **Tender Currencies:** The bidders are required to quote in Indian Rupees only.
10. **GST:** - If a bidder asks for GST to be paid extra, the rate and nature of tax applicable should be shown separately. The GST will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to GST and is payable as per the terms of the contract.
11. **Payment terms:** - The payment shall be made to the supplier only on the satisfactory receipt and installation of the goods ordered. Advance payment shall not be made under any circumstances. The payment shall be made to the supplier's A/C through NEFT/RTGS mode as per the details provided by the supplier.

NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC



Note: In case of any dispute regarding award of tender, decision of AIIMS Administration would be final.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of
the bidder)

Note- Please sign each page of document including terms & conditions & tender

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1.2.1.1 TECHNICAL BID**(Documents to be attached in the "Technical Bid")**

1. Name & Address of the manufacturer and their authorised dealers/ distributors/Agency with phonenumber, email, name and telephone/mobile	
2. Specify your firm/company is a manufacturer/ authorised dealer/ distributor/ Agency	
3. Whether the signature on each page has been made by the bidder or not.	
4. Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5. Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant proof.	
6. Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 100/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in last one year. If you don't fulfil this criteria, your tender will be out rightly rejected.	
7. Please attach copy of last three years of Income Tax Return	
8. Turnover a. Please attach balance sheet (duly certified by Chartered Accountant) for last three (3) years (Attach copy of annual minimum turnover which should not be less than 25 lakh duly certified by the Chartered Accountant) b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India. c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. d. Start-ups may submit its Start-up Registration for consideration (Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory)	
9. PAN No. (Please attach copy)	
10. GST Registration Number. (Please attach copy)	
11. Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
12. Power of Attorney/authorization for signing the bid documents (Not required in case of sole-proprietorship.)	
13. Please submit a notarized affidavit on Indian Non judicial stamp paper of Rs. 100/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
14. Please declare that proprietor/firm/company has never been black listed/debarred by any organization. An oath certificate to this effect may be enclosed on Rs.100 notarized stamp paper.	
15. Please submit two performance certificate from your two different customers to whom you have supplied such type of consumables in previous 3 years	

16. Tender fee Rs. 1180/- (₹1000+18% GST) should be deposited in the account of Executive Director, AIIMS Bathinda online through NEFT/RTGS. The details of account are as under: -

Account No. : 40205094104

Name of Account : Executive Director, AIIMS Bathinda

Name of Bank & Branch : SBI, Milk Plant Branch

IFSC Code: SBIN0050872

The copy of UTR should be uploaded with technical bid. No Tender fee will be accepted offline. Incomplete tender in any respect shall be summarily rejected.

The bidder should mention tender No. and their name in remarks of NEFT/RTGS payment.

Praveen

1.2.1.2 Undertaking

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We shall supply the items of requisite quality and quantity at given rate in timely manner.
3. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish within 15 days, Bank Guarantee/ Performance Security after the issue of Purchase Order, as applicable, in the format to be provided by AIIMS Bathinda in addition to execution of a contract as pre-condition for obtaining the supply orders.
4. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or is Proprietor or Partner or Director of any firm with whom the Government have banned /suspended business dealings. I/We further undertake to report to the AIIMS Bathinda immediately after we are informed but, in any case, not later 15 days, if any firm in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a firm which is banned/suspended in future during the currency of the Contract with you.
5. I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.

(Signature of the Bidder)

Name:

Designation with Seal of the Firm:

Signature

1.2.1.3 MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

(Clause 11 (c) of other terms and conditions of the tender)

To

The Administrative Officer,

All India Institute of Medical Sciences

Bathinda

Dear Sir,

TENDER: _____

we, _____, who are established and reputable manufacturers of
_____, having factories at _____ and _____, hereby authorize

Messrs. _____ (name and address of agents) to bid, negotiate and conclude the contract with
you against Tender No. _____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the conditions of tender contract for the goods
offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name) For and on behalf of Messrs. _____
(Name of manufacturers)/Principal.

broyal

**BANK GUARANTEE FORM FOR
PERFORMANCE SECURITY/ CMC
SECURITY**

To

1.2.1.5 Executive Director

All India Institute of Medical Sciences
Bathinda,
Mandi Dabwali Road,
Bathinda (Punjab)-249201

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called "the contract"). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such a irrevocable bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you unconditionally, on behalf of the supplier, up to a total of _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of you to first demanding the said amount of guarantee from the supplier before raising the demand with us. You may directly raise the demand with us, without asking the supplier for the same.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will not be changed due to change in the constitution of the bank or the supplier.

This guarantee shall be valid up to 65 months from the date of satisfactory installation of the equipment i.e. up to --
----- (indicate date).

.....
(Signature with date of the authorized officer of the Bank)

.....
Name and designation of the officer
.....

.....
Seal, name & address of the Bank and address of the Branch

1.2.1.6 Instruction for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

1.2.1.7 REGISTRATION

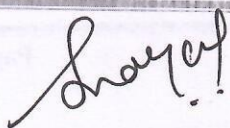
- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate issued by any Certifying Authority recognized by CCA-India (e.g Sify / nCode / eMudhra etc.), with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

1.2.1.8 SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents / Tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender; in case they want to obtain any clarification / help from the Helpdesk.

1.2.1.9 PREPARATION OF BIDS

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- Please note the Number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / Schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG Tender No.: formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.



1.2.1.10 SUBMISSION OF BIDS

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- The server time, (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- The documents being submitted by the bidders would be encrypted using PKI encryption all techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key
- Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

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- On the successful and timely submission of bids (i.e., after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid Tender No.:
.....
summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

1.2.1.11 ASSISTANCE TO BIDDERS

- Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120- 4001002.

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1.3 List of Instruments and Format of Financial Bid:

SCHEDULE WISE LIST

Schedule 1: Consumables for Hemodialysis machines

	Item	Estimated Daily requirement (in Units)	Estimated Annual Requirement (in Units)
1	Part A	5	1250
2	Part B	5	1250
3	Bicarbonate Cartridge		
3A	650 gm	1	250
3B	900 gm	1	250
7	AVF Needles		
7A	16G	2	500
7B	17G	2	500
8	Heat disinfectant	10 in 30 days	120
9	Cold sterilant	10 in 30 days	120
4	Endotoxin filter	10 in 90 days	40

Schedule 2: Dialysis Catheters (Acute & chronic)

S. No	Item	Estimated Daily requirement (in Units)	Estimated Annual Requirement (in Units)
5	Acute Dialysis Catheter		
5A	16 cm Double lumen	2	500
5B	16 cm Triple lumen	1	250
5C	19 cm Double lumen	2	500
6	Tunneled Dialysis Catheters		
6A	19 cm	1	250
6B	23 cm	1	250
6C	35 cm	1 in 30 days	12

Schedule 3: Filters and Blood Tubing

	Item	Estimated Daily requirement (in Units)	Estimated Annual Requirement (in Units)
11	Blood tubing		
11A	BT without inbuilt dome	5	1250
11B	BT with inbuilt dome	5	1250
12	Dialyzers		
12A	Adult High Flux	5	1250
12B	Adult Low Flux	5	1250
12C	Pediatrics Low Flux	1	250
13	Plasma Filter		
13A	Adult size	5 in 30 days	60
13B	Pediatrics size	5 in 90 days	15

Schedule 4: Consumables for RO units

S No	Item	Estimated Daily requirement (in Units)	Estimated Annual Requirement (in Units)
14	Standard Filter		
14A	10 microns	2 in 90 days	24
14B	20 microns	2 in 90 days	24
15	Jumbo Filters		
15A	5 microns (JUMBO)	2 in 90 days	24
15B	10 microns (JUMBO)	2 in 90 days	24
10	Regeneration salt tablets	8 in 30 days	125

Schedule 5: Kidney Biopsy consumables

S. No	Item	Estimated Daily requirement (in Units)	Estimated Annual Requirement (in Units)
16	Biopsy Gun		
16A	16 G, 16 cm	1	250
16B	18 G, 16 cm	5 in 30 days	60

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**Technical Specifications for consumables for Rate Contract
Department of Nephrology, AIIMS, Bathinda**

S. No.	Items
1	A Part of Dialysate
2	B part of Dialysate
3	Bicarbonate cartridge
4	Endotoxin filter
5	Acute Dialysis Catheter
6	Chronic Dialysis Catheters
7	AVF Needles
8	Heat Disinfectant
9	Cold Sterilant
10	Regeneration salt tablets
11	Blood tubing s
12	Dialyzers
13	Plasma Filter
14	Standard Water Filter
15	Jumbo Water Filter
16	Kidney Biopsy Gun

1. A Part of Dialysate

1.1. Acetate based Liquid with mixing ratios of 1/34 to be reconstituted with purified water for use compatible with FMC 4008/5008 Machine.

1.2. Approximate concentration in reconstituted fluid must be: sodium 136 to 139 meq/L, potassium 2.0 meq/L, calcium 1.55 meq/L, magnesium 0.38 meq/L, Bicarbonate 32.7 meq/L, chloride 108.5 meq/L, acetate 3.0 meq/L

1.3. Liquid should be contained in airtight, leak-proof 10L canisters to be stored at ambient temperature with considerable long shelf life.

2. B part of Dialysate

2.1. Dry powder to be reconstituted with purified water for use compatible with Fresenius 4008/5008 S

2.2. Approximate concentration in reconstituted fluid must be: Sodium chloride 235 to 240 gms per litre and sodium bicarbonate 580 to 660 gm/Litre.

2.3. Powder should be packed in airtight packaging to be stored in ambient temperature with considerable long shelf life.

3. Bicarbonate cartridge

3A. Bicarbonate cartridge (650 gm) compatible for FMC 5008 S machine

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1. Dried powdered form of pure sodium bicarbonate 650 gm ready to be connected to dialysis machine.

2. Lightweight Packaging, Easy Top Connectors, Flexible Bag Size, Environment-Friendly, Compatible with: Fresenius Dialysis Machine 5008S.

3B. Bicarbonate cartridge (900 gm) compatible for FMC 5008 S machine

1. Dried powdered form of pure sodium bicarbonate 900 mg ready to be connected to dialysis machine.

2. Lightweight Packaging, Easy Top Connectors, Flexible Bag Size, Environment-Friendly, Compatible with: Fresenius Dialysis Machine 5008S.

4. Endotoxin filter

4.1. Dialysis fluid filters, material: Polysulfone: Extended surface area of at least 2.2 m²

4.2. Silicone sealing: with lock system.

4.3. Housing material: Polypropylene

4.4. Potting material: Polyurethane

4.5. Filtration rate of minimum: 5 mL/min x mm Hg (3.75 L/min bar; max. 2 bar)

4.6. Must be compatible for FMC 4008 & 5008 Machine

5. Acute Dialysis Catheter

5A. Dual Lumen length 16 cm

5A.1. Catheters should be more than or equal to 11.5 Fr size and should have curved extension and singles, kit, tray (IC Tray) and safety tray (PASS Tray) configurations.

5A.2. Catheters should be designed for optimal acute dialysis catheter performance.

5A.3. Catheters should have unique laser-cut side slots to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment.

5A.4. Thermosensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.

5A.5. Made of flexible radiopaque polyurethane with a radiopaque tip

5A.6. Rotatable transparent suture wings

5A.7. Catheter extensions imprinted with name, length and priming volumes

5A.8. J tipped Guidewire - (0.038" and 70 cm)

5A.9. 18-gauge Introducer Needle

5A.10. Two sealing caps

5B. Dual Lumen catheter length of 19-24 cm

5B.1. Catheters should be in straight extension or curved extension and singles, kit, tray (IC Tray) and safety tray (PASS Tray) configurations.

5B.2. Catheters should be designed for optimal acute dialysis catheter performance.

5B.3. Catheters should have unique laser-cut side slots to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment.

5B.4. Thermosensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.

5B.5. Made of flexible radiopaque polyurethane with a radiopaque tip

5B.6. Rotatable transparent suture wings

5B.7. Catheter extensions imprinted with name, length and priming volumes



- 5B.8. J tipped Guidewire - (0.038" and 70 cm)
- 5B.9. 18-gauge Introducer Needle
- 5B.10. Two sealing caps

5C. Triple Lumen of 12 Fr of length 13-16 cm

- 5C.1. Catheters should be in straight extension or curved extension and singles, kit, tray (IC Tray) and safety tray (PASS Tray) configurations.
- 5C.2. Catheters should be designed for optimal acute dialysis catheter performance.
- 5C.3. Catheters should have unique laser-cut side slots to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment.
- 5C.4. Thermo-sensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.
- 5C.5. Made of flexible radiopaque polyurethane with a radiopaque tip
- 5C.6. Rotatable transparent suture wings
- 5C.7. Catheter extensions imprinted with name, length and priming volumes
- 5C.8. J tipped Guidewire - (0.038" and 70 cm)
- 5C.9. 18-gauge Introducer Needle
- 5C.10. Two sealing caps

6. Chronic Dialysis Catheters

6A. Chronic HD catheter for right sided Internal Jugular vein

- 6A.1. Dual Lumen of 14.5-16 Fr & length (tip to cuff- 19 cm and total 24-25 cm)
- 6A.2. Catheters should be in straight extension configuration only with a tapered/ non tapered Cuff.
- 6A.3. Catheters should be designed for optimal long term dialysis performance with exceptional Kink resistant body.
- 6A.4. Catheters should have either symmetrical tip [with '360° multi-plane side holes' or 'laser cut side slots'] or Split tip to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment. Allowable backflow rate should be less than 1%.
- 6A.5. Thermo-sensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.
- 6A.6. Made of flexible radiopaque polyurethane with a radiopaque tip
- 6A.7. Catheter extensions imprinted with name, length and priming volumes
- 6A.8. Complete sterile pack including complete kit should be provided with J tipped guidewire - (0.038" and 70 cm), 18-gauge Introducer Needle, two sealing caps and two adhesives. Introducer tissue dilator should be fitted with one way valve for air guarding. Metal tunneler tip should be compulsorily blunt.
- 6A.9. US FDA/ECE or ISO certified. Sterile pack Biocompatible Sterile Material.

6B. Chronic HD catheter for left sided Internal Jugular Vein

- 6B.1. Dual Lumen of 14.5-16 Fr & length (tip to cuff- 23 cm and total 28 cm)
- 6B.2. Catheters should be in straight extension configuration only with a tapered/ non tapered Cuff.
- 6B.3. Catheters should be designed for optimal long term dialysis performance with exceptional Kink resistant body.
- 6B.4. Catheters should have either symmetrical tip [with '360° multi-plane side holes'

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or 'laser cut slide slots'] or Split tip to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment. Allowable backflow rate should be less than 1%.

6B.5. Thermo-sensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.

6B.6. Made of flexible radiopaque polyurethane with a radiopaque tip

6B.7. Catheter extensions imprinted with name, length and priming volumes

6B.8. Complete sterile pack including complete kit should be provided with J tipped guidewire - (0.038" and 70 cm), 18-gauge Introducer Needle, two sealing caps and two adhesives. Introducer tissue dilator should be fitted with one way valve for air guarding. Metal tunneler tip should be compulsorily blunt.

6B.9. US FDA/ECE or ISO certified. Sterile pack Biocompatible Sterile Material.

6C. Chronic HD catheter For Femoral Vein

6C.1. Dual Lumen of 14.5-16 Fr & length (tip to cuff- 31-35 cm and total 36-40 cm)

6C.2. Catheters should be in straight extension configuration only with a tapered/ non tapered Cuff.

6C.3. Catheters should be designed for optimal long term dialysis performance with exceptional Kink resistant body.

6C.4. Catheters should have either symmetrical tip [with '360° multi-plane side holes' or 'laser cut slide slots'] or Split tip to minimize potential for positional occlusion and the likelihood of clot formation by minimizing debris attachment. Allowable backflow rate should be less than 1%.

6C.5. Thermo-sensitive catheter material should provide optimal stiffness during insertion and softens up to 50% post-insertion for vessel conformity and patient comfort.

6C.6. Made of flexible radiopaque polyurethane with a radiopaque tip

6C.7. Catheter extensions imprinted with name, length and priming volumes

6C.8. Complete sterile pack including complete kit should be provided with J tipped guidewire - (0.038" and 70 cm), 18-gauge Introducer Needle, two sealing caps and two adhesives. Introducer tissue dilator should be fitted with one way valve for air guarding. Metal tunneler tip should be compulsorily blunt.

6C.9. US FDA/ECE or ISO certified. Sterile pack Biocompatible Sterile Material.

7. AVF Needles

7A. AVF Needle (Rigid Cannula)- 16 G

7A.1. AV fistula cannulation needle of size, 20 mm Needle length, and 150 mm of tube length.

7A.2. Ultra-sharp, siliconized 3-bevel needle with long and oval back-eye for smooth cannulation with 'ultra-thin' wall for optimal blood flow. Textured, turn able or fixed, color-coded wings with color-coded occlusion clamp and tapered luer must be present.

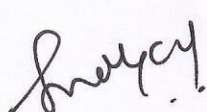
7A.4. Latex-free, BPA-free, DEHP-free

7A.5. Gamma sterilization.

7B. AVF Needle (Rigid Cannula)- 17 G

7B.1. AV fistula cannulation needle of size, 20 mm Needle length, and 150 mm of tube length.

7B.2. Ultra-sharp, siliconized 3-bevel needle with long and oval back-eye for smooth cannulation with 'ultra-thin' wall for optimal blood flow. Textured, turn able or fixed,



color-coded wings with color-coded occlusion clamp and tapered luer must be present.
7B.4. Latex-free, BPA-free, DEHP-free
7B.5. Gamma sterilization.

8. Heat Disinfectant

- 8.1. It should be liquid concentrate of 21-25% w/w citric acid, Malic acid, Lactic acid and purified water with pH value 1.7 to 2.0.
- 8.2. It should be non-toxic (natural ingredients), colourless, odourless, Ph: acidic, two-year shelf life at below 25 degrees Celsius and biodegradable.
- 8.3. There shouldn't be any need of post use residual testing of citrate when utilised for dialyzer reprocessing.

9. Cold Sterilant

- 9.1. It should be composed of Peracetic acid (4% w/w), hydrogen peroxide (20% w/w), acetic acid and proprietary stabilizing agents.
- 9.2. It should be Biodegradable, Non-staining & Odorless and effective against even the most resistant organisms.
- 9.3. It should occupy less storage space (preferable 10-liter container) and must have long shelf-life (18-24 months at 5-25°C) and Safe-to-use.
- 9.4. There should be no necessity of pre-dilution before use so that post dilution shelf life can be maximized.
- 9.5. It should be compatible with dialyzer reprocessing machine.
- 9.6. Peracetic acid residue strips (with potassium iodide starch paper) to be provided along with containers for quantitative measurement and should be able to detect even extremely low concentrations of residual sterilant (as low as 1 ppm) in the dialyzer, helping to ensure adequate rinsing of the dialyzer prior to patient use.
- 9.7. It should be having decalcifying capacity (CaCO₃ removal)

10. Regeneration salt tablets for water softening (For Both Portable & Main RO)

- 10.1. Tablets should consist of ultrapure vacuum salt with sodium chloride content of at least 99.9%.
- 10.2. It should leave no residue, no salt clumping, and no salt mass in the salt-dissolving container.
- 10.3. Insoluble elements content should be less than 0.01%.
- 10.4. 25 Kg Packets are desired for proper storage and utilisation.

11. Blood tubings

11.A BT Compatible for FMC 4008 S machine

- 11.A.1. Tubing should be made up of medical grade PVC. It should be Phthalate free, non DEHP, non-pyrogenic, Nontoxic with Filling volume 132 to 169 ml.
- 11.A.2. Trouble free air detection should be enabled directly on system tube.
- 11.A.3. Sterilization –beta sterilization by accelerated electrons (e-beam), fewer material alterations of comparison to gamma irradiation, no radioactive source of radiation.
- 11.A.4. Inner diameter of pump segment should be 8 mm, Diameter of venous bubble catcher 22 mm.

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11B. BT compatible for FMC 5008 Machine

11.B.1. Tubing should be made up of medical grade PVC.

It should be Phthalate free, non DEHP, non-pyrogenic, Nontoxic with Filling volume 132 to 169 ml.

11.B.2 It should be enabled to perform exact measurement of arterial pressure via inbuilt dome.

11.B.3. Trouble free air detection should be enabled directly on system tube.

11.B.4. Sterilization –beta sterilization by accelerated electrons (e-beam), fewer material alterations of comparison to gamma irradiation, no radioactive source of radiation.

11.B.5. Inner diameter of pump segment should be 8 mm, Diameter of venous bubble catcher 22 mm.

12. Dialyzers

12A. Adult Low flux (10-16) dialyser of surface area 1.4 to 1.6 m²

12A.1. Membrane material should be made up of Polysulfone/ Polyneprhone/ Polyflux (a blend of Polyarylethersulfone, Polyvinylpyrrolidone, and Polyamide) with a thickness of wall (membrane wall) 32 to 40 µmol. Inner diameter of lumen to be limited to 190 to 220 µmol range.

12A.2. Sterilization method of dialyzer: inline steam/ beta or gamma ray (including dry gamma) with potting compound to be made up of only polyurethane and Housing material to be made up of only polypropylene/ polycarbonate.

12A.3. Dialyzer has to be Biocompatible with high endotoxin retention capabilities with No chemical residuals and Low rinsing volumes.

12A.4. Dialyzer should allow TMP 450 to 500 mm of hg for low flux, 450 to 550 mm of hg for middle flux and 550 to 650 mm of hg for high flux.

12A.5. KUF (ml/h/mm of hg) low flux 10-16.

12A.6. Dialyzers are to be produced to meet international safety regulations.

12B. Adult High flux (40-50) dialyser of surface area 1.4 to 1.6 m²

12B.1. Membrane material should be made up of Polysulfone/ Polyneprhone/ Polyflux (a blend of Polyarylethersulfone, Polyvinyl pyrrolidone, Polyamide) with a thickness of wall (membrane wall) 32 to 40 µmol. Inner diameter of lumen to be limited to 190 to 220 µmol range.

12B.2. Sterilization method of dialyzer: inline steam/ beta or gamma ray (including dry gamma) with potting compound to be made up of only polyurethane and Housing material to be made up of only polypropylene/ polycarbonate.

12B.3. Dialyzer has to be Biocompatible with high endotoxin retention capabilities with No chemical residuals and Low rinsing volumes.

12B.4. Dialyzer should allow TMP 450 to 500 mm of hg for low flux, 450 to 550 mm of hg for middle flux and 550 to 650 mm of hg for high flux.

12B.5. KUF (ml/h/mm of hg) high flux 40-50.

12B.6. Dialyzers are to be produced to meet international safety regulations.

12C. Paediatric Low flux (8-10) dialyser of surface area 0.7 to 0.9 m²

12C.1. Membrane material should be made up of Polysulfone/ Polyneprhone/ Polyflux (a blend of Polyarylethersulfone, Polyvinylpyrrolidone, and Polyamide) with a thickness of wall (membrane wall) 32 to 40 µmol. Inner diameter of lumen to be limited to 190 to 220 µmol range.

12C.2. Sterilization method of dialyzer: inline steam/ beta or gamma ray (including dry

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gamma) with potting compound to be made up of only polyurethane and Housing material to be made up of only polypropylene/ polycarbonate.

12C.3. Dialyzer has to be Biocompatible with high endotoxin retention capabilities with No chemical residuals and Low rinsing volumes.

12C.4. Dialyzer should allow TMP 450 to 500 mm of hg for low flux, 450 to 550 mm of hg for middle flux and 550 to 650 mm of hg for high flux.

12C.5. KUF (ml/h/mm of hg) low flux 8-10.

12C.6. Dialyzers are to be produced to meet international safety regulations.

13. Plasma Filter

13A & 13B. Plasma Filter- Adult Size & Paediatric size

13A.1. Plasma filter must be made up of Poly(ether)sulfone/Plasma sulfone with material effective surface area: 0.45-0.6 m², sieving coefficient of albumin, Immunoglobulin and lipoproteins should be 1.

13A.2. Filling volume blood side 50 -70 ml, Plasma side 125 ml, with PVC made outer body.

13A.3. Internal fiber diameter 300-400 µm, Inner wall thickness 70-100 µm, Maximum TMP 80-100 mmHg, Maximum blood flow 180-250 ml/min

13A.4. Housing: polycarbonate, Potting: polyurethane

13A.5. The plasma filter is sterilized with ethylene-oxide or inline steam method and only for single use.

14. Standard Water Filter

14A. Standard Water Filter 10 Micron (Compatible with portable RO Aqua WTU)

14A.1. It must be of sediment filter type.

14A.2. It should be made up of Polypropylene.

14A.3. It should have three-layer structure cartridge of high contaminant holding capacity.

14A.4. It should fit all standard 10" filter housings, reverse osmosis systems under sink systems flow rate: 1 GPM.

14A.5. Cartridges must be individually shrink wrapped.

14A.6. Size of fibres: 10-Micron, Micro-Denier melt-blown filtration fibres of high removal rating formed by thermal bond without use of any binders and adhesives.

14A.7. Maximum operating pressure: 125 PSI, operating temperature: 40-100F, and maximum Flow Capacity: 1-6 GPM.

14B. Standard Water Filter 20 Micron (Compatible with portable RO Aqua WTU)

14B.1. It must be of sediment filter type.

14B.2. It should be made up of Polypropylene.

14B.3. It should have three-layer structure cartridge of high contaminant holding capacity.

14B.4. It should fit all standard 10" filter housings, reverse osmosis systems under sink systems flow rate: 1 GPM.

14B.5. Cartridges must be individually shrink wrapped.

14B.6. Size of fibres: 20-Micron, Micro-Denier melt-blown filtration fibres of high removal rating formed by thermal bond without use of any binders and adhesives.

14B.7. Maximum operating pressure: 125 PSI, operating temperature: 40-100F, and maximum Flow Capacity: 1-6 GPM.

15. Jumbo Water Filter

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15A. Jumbo Water Filter 5 micron (For Main RO System)

- 15A.1. It must be of sediment filter type.
- 15A.2. It should be made up of Polypropylene.
- 15A.3. It should have three-layer structure cartridge of high contaminant holding capacity.
- 15A.4. It should fit all standard 20" filter housings, reverse osmosis systems under sink systems flow rate: 1 GPM.
- 15A.5. Cartridges must be individually shrink wrapped.
- 15A.6. Size of fibres: 10-Micron, Micro-Denier melt-blown filtration fibres of high removal rating formed by thermal bond without use of any binders and adhesives.
- 15A.7. Maximum operating pressure: 125 PSI, operating temperature: 40-100F, and maximum Flow Capacity: 1-6 GPM.

15B. Jumbo Water Filter 10 micron (For Main RO System)

- 15B.1. It must be of sediment filter type.
- 15B.2. It should be made up of Polypropylene.
- 15B.3. It should have three-layer structure cartridge of high contaminant holding capacity.
- 15B.4. It should fit all standard 20" filter housings, reverse osmosis systems under sink systems flow rate: 1 GPM.
- 15B.5. Cartridges must be individually shrink wrapped.
- 15B.6. Size of fibres: 10-Micron, Micro-Denier melt-blown filtration fibres of high removal rating formed by thermal bond without use of any binders and adhesives.
- 15B.7. Maximum operating pressure: 125 PSI, operating temperature: 40-100F, and maximum Flow Capacity: 1-6 GPM.

16. Kidney Biopsy Gun

16A. (16 G x 16 cm)

- 16A.1 It should have one handed cocking and lightweight ergonomic design
- 16A.2 Penetration depth should be 22mm
- 16A.3 It should have two firing buttons
- 16A.4 There should be colour coding to permit accurate needle gauge identification

16B. 18 G x 16 cm

- 16B.1 It should have one handed cocking and lightweight ergonomic design
- 16B.2 Penetration depth should be 22mm
- 16B.3 It should have two firing buttons
- 16B.4 There should be color coding to permit accurate needle gauge identification

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