ALL INDIA INSTITUTE OF MEDICAL SCIENCS
ANSARI NAGAR, NEW DELHI-110029

Dated 27.04.2026

The First Secretary
Embassy of India
Japan, Tokyo

Subject: Advertisement for Purchase installation & commissioning of following equipment for AIIMS, Campus, New Delhi, INDIA

Dear Sir,

As per OM dated 14/03/2022 issued by Competent Authority, AIIMS, 'Global Tender' for equipment are Various equipment are being floated with view to avail the possibility of purchasing the latest model available in the International Market. In order to ensure that Global Tenders receive widest possible publicity in the International Market, and to create a good competition, I am directed to approach you to kindly arrange the publication of this tender in some of the leading National Dailies in the country/area of your operations and for the sale of the tenders through your good offices on our behalf there. Soft copy of Tender enquiry document are available on website: www.aiims.edu, www.aiims.ac.in, & www.tenders.gov.in for further details of these tenders:

Sl. No.	Tender Number	Item Name		EMD in INR
1.	XX-09/SO(DO)/B.B./2026-27/M&E	Genotyping reagents/kits for Immunohematology Laboratory on One year Rate Contract basis.	As per specs.	47,600/-
2.	XX-11/SO(DO)/PCCSM/2026-27/M&E	Continuous Renal Replacement Therapy (CRRT)	As per specs.	1,20,000/-
3.	XX-12/SO(DO)/PCCSM/2026-27/M&E	ECMO Machine(Extended Respiratory Support Application)	As per specs.	7,00,000/-

Earnest Money Deposit/ Bid Security should be submitted mentioned as above (payable in favour of "AIIMS MAIN GRANT", AIIMS., New Delhi. The Bid Security is refundable after finalization of the tender. Furthers, it is requested that suitable advertisement may kindly be arranged at your end.

Yours Sincerely.

27-4-2026

Store Officer (DO)

भण्डार अधिकारी (डी.का.)
Stores Officer (D.O.)
आयुर्विज्ञान, अंसारी नगर
A.I.I.M.S., Ansari Nagar
नई दिल्ली-29/New Delhi-29

Encl: As above.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES,

Store Section (DO), 1st Floor, Animal House Building, AIIMS, New Delhi – 110029

ANSARI NAGAR, NEW DELHI-110 029, INDIA.

TENDER ENQUIRY DOCUMENT

(Two Bid System for conclusion of Rate Contract)

ATE No: XX-09/SO(DO)/Blood Bank/2026-27/St.

Rate Contract items : **Genotyping reagents/kits for Immunohematology Laboratory on One year Rate Contract basis..**

Period of Rate Contract : One Year.

SECTION-I

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110 029

NOTICE INVITING TENDERS (NIT)

Advertised Tender Enquiry No : **XX-09/SO(DO)/Blood Bank/2026-27/St.** On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from eligible and qualified firms/manufacturer for supply of following Goods for conclusion of Rate Contract for a period of One Year:-

S. No.	Brief Description of Goods	Estimated Quantity Per Year	Amount of Bid Security/EMD
1.	Genotyping reagents/kits for Immunohematology Laboratory on One year Rate Contract basis.	As Indicated In Section VII	Rs. 47,600/-

CRITICAL DATE SHEET

Published Date & Time	*20-04-2026* at 04.00 pm
Bid Document Download/Sale Start Date	*20-04-2026* at 04.00 pm
Seek Clarification Start Date	*20-04-2026* at 04.00 pm
Seek Clarification End Date	*27-04-2026* at 04.00 pm
Pre Bid Meeting	*NA*
Pre Bid Meeting Place & Address	*NA*
Bid Submission Start Date & Time	*04-05-2026* at 04.00 pm
Bid Submission End Date & Time	*21-05-2026* (Thursday) at 03.00 pm
Bid Opening Date & Time	*22-05-2026* (Friday) at 03.00 pm

Section – VII
TECHNICAL SPECIFICATION

Specifications Genotyping kits for immunohematology

1. Scope of application: Genotyping kits should be able to cover the following RBC group system and human platelet antigen system

Blood groups system	Alleles
1. RBC BLOOD GROUP SYSTEM	
a) ABO	*A, B, O*alleles and their variants
b) RH	*RHD* (including weak & partial D variants) *RHCE* typing (including C, E, c, e, Cw) Fetal RhD (Non-invasive cell free fetal DNA testing for RHD gene) Zygosity testing for RHD gene
c) Kell	*KEL1, KEL2,*
d) Duffy	*FYA, FYB, FYX*
e) Kidd	*JKA, JKB*
f) MNS	*M, N, S, s, U*
g) Rare Blood groups	Kp, Js, Di, Wr, Lu, Do, Co, Yt, Vel, Kn
2. HUMAN PLATELET ANTIGEN SYSTEM (HPA)	
a) HPA	HPA 1, 2, 3, 4, 5, 6, 9, 15 (a/b)

2. Principle: The genotyping kits should be based on RT-PCR method. Kits should include ready to use PCR tubes.

3. Application:

a) Testing for each RBC blood group system can be performed ***separately or combined***. The genotyping kit should be compatible/validated for the existing equipment in the department, or the vendor should validate the kit and finalize the testing protocol before commencing supplies.

b) For human platelet antigen (HPA) genotyping a single or a combined assay should be available. All the reagents and the consumables pertaining to the validation will be the responsibility of the vendor.

c) For training and validation 10 tests each for ABO, RH blood group genotyping andHPAshould be supplied.

4. Result interpretation: Any additional software or middleware required for interpretation of the data should be supplied and installed free of cost.

5. Consumable and accessories: Kits/ and consumables (if any additional requirement) should be supplied with the genotyping kit.

This should include

- Positive controls
- Negative controls
- Calibrators

- Distilled water (without fluorescence)
- Sample reference DNA (Ratio A260/280: 1.8 ± 10%)
- DNA extraction kits
- Any other reagent/consumable required for testing and not mentioned above.

DNA extraction kits for blood samples, with minimum sample volume of ≤200 µl. DNA extraction kits be validated and compatible with the genotyping kits for RBC blood group system and human platelet antigen system

6. Annual requirement: the annual requirement for the genotyping kits is outlined below.

S No	Consumables (genotyping kits)	No of test /year	Cost/Test	No tests/pack	Total no of reagent packs to be used for cumulative no of test	Remarks
1	ABO blood group system • *A, B, O* alleles • A, B, O variants	 *50* *30*				
2	RH blood group system • *RHD* (including weak & partial D variants) • Fetal RhD (Non-invasive cell free fetal DNA testing for RHD gene) • Zygosity testing for RHD gene • *RHCE* typing (including C, E, c, e, Cw)	 *30* *20* *20* *10*				
3	Kell blood group system (allele *KEL1, KEL2)*	*20*				
4	Duffy blood group system (allele *FYA, FYB)*	*20*				
5	Kidd blood group system (allele *JKA, JKB*	*20*				
6	MNS blood group system (allele *M, N, S, s, U)*	*20*				
7	Rare Blood groups (including Kp, Js, Di, Wr, Lu, Do, Co, Yt, Vel, Kn)	*20*				
8	Human platelet antigen system (allele for HPA 1, 2, 3, 4, 5, 6, 9, 15 (a/b)	*50*				
For consumables required for running the tests such as controls (both positive and negative controls), calibrators if any, DNA Extraction kit, Sample reference DNA (Ratio A260/280: 1.8 ± 10%), Distilled water (without fluorescence). Bidders can add additional row.						

NOTE:

For cost comparison among the bidders, cost per test for individual blood group system will be considered. In case of non-availability of kits for individual blood group system, combined panel/kits can be quoted, however, the cost per valid test for said blood group will be considered (undesirable test will be rendered as wastage)

The evaluation for the cost of the reagents shall be inclusive of the controls (both positive and negative controls), calibrators if any, DNA Extraction kit, Sample reference DNA (Ratio A260/280: 1.8 ± 10%), Distilled water (without fluorescence), etc.

Any other reagent/consumable required for testing and not mentioned above shall be supplied free of cost.

7. Shelf life: Minimum shelf life for the kits should be at least 1 year from the date of supply. The kit components should be stored at temperatures less than or equal to -30°C. The shelf-life of the individual components and the entire system should state on the respective label of kit.

8. Quality control: The reagents (and equipment if any) must hold quality certifications such as US-FDA, CE (Europe), or BIS. Quality certificate should come with every kit and must include the specificity table.

9. Information brochure: Instructions for use should come in kit.

Note: The quantity shown in the schedules can be increased or decreased to any extent depending upon the actual requirement.

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES,

STORE SECTION (DO), 1ST FLOOR, ANIMAL HOUSE,

ANSARI NAGAR, NEW DELHI-110 029, INDIA

TENDER ENQUIRY DOCUMENT

(Two Bid System for Machinery & Equipments)

Advertised Tender Enquiry No.: XX-11/SO(DO)/PCCSM/2026- 27/M&E

Brief Description of Goods	:	Purchase of Continuous Renal Replacement Therapy (CRRT) - 01 No.

SECTION-I

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110 029

TENDERS ENQUIRY DOCUMENTS (TED)

Advertised Tender Enquiry No : XX-11/SO(DO)/PCCSM/2026-27/M&E

On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:

S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD
1.	Purchase of Continuous Renal Replacement Therapy (CRRT)	01 No.	INR Rs. 1,20,000/-

CRITICAL DATE SHEET

Published Date & Time	*21-04-2026* at 04.00 pm
Bid Document Download/Sale Start Date	*21-04-2026* at 04.00 pm
Seek Clarification Start Date	*21-04-2026* at 04.00 pm
Seek Clarification End Date	*27-04-2026* at 04.00 pm
Pre Bid Meeting	*28-04-2026* at 03.00 pm
Pre Bid Meeting Place & Address	*Department of PCCSM, Room No. 2, New Private Ward, 3rd floor, AIIMS New Delhi.*
Bid Submission Start Date & Time	*08-05-2026* at 04.00 pm
Bid Submission End Date & Time	*25-05-2026* (Monday) at 03.00 pm
Bid Opening Date & Time	*26-05-2026* (Tuesday) at 03.00 pm

Instructions:

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

2. The Bidder shall download the Tender Enquiry Document directly from the websites https://eprocure.gov.in/eprocure/app and shall not tamper/modify it including downloaded Price Bid template in any manner. In case if the same is found to be tempered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.

3. The complete bidding process is online. Bidders should be possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above.

4. Bidders are advised to follow the instructions provided in the "Instructions for Online Bid Submission" in Para No. 11 of GIB of Tender Enquiry Document.

5. Bidders are advised to visit this website regularly to keep themselves updated, for any changes/ modifications in the Tender Enquiry Document.

6.Intending bidder are advised to visit CPPP website https://eprocure.gov.in/eprocure/app regularly till closing date of submission of bid, for any corrigendum.

7. The documents to be submitted in their bid may be scanned with 100 dpi with black and white option which helps in fast uploading.

8. The EMD/Bid Security shall be deposited through Bank Guarantee/Demand Draft/FDR drawn in favour of the **AIIMS Main Grant.** The original Earnest Money/Bid Security must be delivered to **Sr. Stores Officer, Store Section (DO), Ist floor, Animal House Building(Near Bio-technology Building) AIIMS, New Delhi-110029** till bid opening date and time as mentioned in "Critical Date Sheet" failing which the bid shall be summarily rejected.

SECTION – VI

LIST OF REQUIREMENTS

Part I

Sl. No.	Name of Equipment	Consignee	Quantity per Deptt. (No.)	Total Quantity per Schedule (No.)	Warranty Period	CAMC period after warranty
1	Continuous Renal Replacement Therapy (CRRT)	Department of PCCSM	01	01	02 year	08 year

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:
180 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date by when it is to be delivered at consignee site. Bidders may quote earliest delivery period.

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:
180 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Bidders may quote the earliest delivery period).

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Part III: Scope of Incidental Services:
Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13.

Part IV: Turnkey Work (if any) as per details in Technical Specification.

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.
Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:
Free Delivery at Consignee's Site(s)

b) For Imported goods directly from abroad:

The foreign bidders are required to quote their rates on CIP (Named Port of Destination Basis) giving breakup of the price as per the Performa prescribed in the Price Schedule. Purchaser will place the order on CIP (Named Port of Destination basis).

Insurance (Local Transportation and Storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Revised Specification of Continuous Renal Replacement Therapy (CRRT)

Qty: 01 No

S. No.	Technical Specification
1	Description of Function
1.1	Continuous Renal Replacement Therapy (CRRT) Machine provides at least 24-hour continuous (non stop) dialysis therapy used to support patients with kidney failure.
2	Operational Requirements
2.1	Easy to handle and maintain.
2.2	Microprocessor/microcontroller controlled user interactive menu with operating and malfunction removal instruction on display screen
2.3	Should be user friendly
3	Technical specifications
3.1	Should have 4-7 pumps, one each for blood, Dialysis, Replacement fluid and Effluent/Filtrate and for citrate and heparin anticoagulation
3.2	Should be able to perform SCUF, CVVH, CVVHD, CVVHDF
3.3	Should have touch screen/Touch pad TFT Monitor.
3.4	Should have blood pump speed of app. 10-450 ml/min.
3.5	Should have closed bleed circuit to prevent air to blood interface.
3.6	Should have short preparation and priming program and should be ready to start treatment within 10-20 minutes.
3.7	Should have Venous pressure range: (-) 250 mm Hg =/- 50 mmHg.
3.8	Should have Venous pressure range: (-) 350 mm Hg =/- 50 mmHg.
3.9	Should have Pre Filter Pressure : 0 to + 450 mmHg.
3.10	Should have Effluent Pressure : 350 mmHg+/ -50 mmHg.
3.11	Should have Programmable Substitution solution flow rate: 100-8000 mL/Hr
3.12	Should have Dialysate Flow rate: 100-2500 mL/Hr
3.13	Should have Effluent Flow rate: 0-1500 mL/Hr
3.14	Should have Integrated heparin pump with flow rate of 0.5ml-5 mL/Hr. Should have bolus facility range 0.5mL-5mL
3.15	Should have Capability of changing therapies.
3.16	Should have three weighing scales to control the system with balancing accuracy of less than 1% of total turnover in normal conditions and weighing capacity of at least 0-10 kg.
3.17	Should have Fluid/Blood warmer for blood/dialysate warming temp range app 33-38 deg C(+/-0.5 deg C)
3.18	Should have Ultrasonic air bubble detector and Blood leak Detector.
3.19	Should have Alarm in case of blood leak, air in line, pressure limit violation, empty dialysate/replacement bag, full effluent bag and advisory alarms in case of excessive TMP and filter clotting.
3.20	Should have minimum 10 minutes Battery backup for blood pump
3.21	Should have an Rs 232 Port for Data transfer and interface.
3.22	Provision for regional citrate anticoagulation
3.23	Capability to dialyze both adult and pediatric patient (low body weight)
4	System Configuration Accessories. Spares and consumables
4.1	System as specified
4.2	Should be supplied with 10 sets of all essential accessories at no extra cost for 10 procedures
4.3	All media and consumables for setting up and standardization should be provided free of cost in addition to the items supplied in 4.3.
4.4	
5	Standards
5.1	Should have the ISO certification and the copy of the same should be enclosed along with the technical bid
5.2	The unit should have BIS or US FDA or European CE with four digit notified body number certificate for the quoted model and certificate to be submitted OR Should meet IEC 60601-1, IEC 60601-1-2 & IEC 60601-2-16 standards and should submit valid test report for the quoted model from NABL accredited laboratory/ from labs in their country of origin in case of foreign manufacturer

5.3	Should have import/manufacturing license from Central licensing Authority or State licensing authority of CDSCO for Medical Devices and copy of valid license should be submitted for the quoted model. In case the vendor has not yet obtained import/manufacturing license from CDSCO for the quoted model, proof of application for CDSCO medical device license to be submitted in the bid document and valid CDSCO license to be produced at the time of supply/NOA for the quoted model		
S. No	BOQ	Qty	UOM
1.	CRRT machine as specified	1	Nos.
2.	CRRT Fluid 0K	20	Nos.
3.	CRRT Fluid 2K	20	Nos.
4.	Diasafe Plus Filter	5	Nos.
5.	Bibag-5008	5	Nos.
6.	AV Ultraflux Dialyser (Adult)	5	Nos.
7.	HF Female Spike Adaptor	5	Nos.
8.	Multifiltrate AV Cassette	5	Nos.
9.	Multifiltrate Dialsate System	5	Nos.
10.	Multifiltrate Filtrate Bag 10L	5	Nos.
11.	Multifiltrate Substitute Line	5	Nos.

WARRANTY:

- As per AIIMS rules and should be quoted with 2-year comprehensive warranty and another 8 years of maintenance warranty (including all spares, batteries, circuit, other accessories)
- The cost of additional accessories quoted in the price bid which will be used to calculate L1.
- Prices of all the spare/accessories required for maintenance of the equipment should be quoted along with the price bid. If the firm fails to provide price of any part/accessories in the price bid the same will be provide free of cost by the company if required.
- Company will be responsible to maintain equipment and accessories in working condition irrespective of the cause/reasons/conditions/nature for not working of the equipment/accessories. Company will replace all the required parts/spares /accessories, labour/service during WARRANTY/CAMC period without any extra charges/taxes" (including and not limited to physical damage).
- In case of any breakdown, fault, repair should be undertaken within 48 hours of receipt of such information. Failure to do so shall make the company liable for a penalty of Rs.1000/- per day.

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES,

STORE SECTION (DO), 1ST FLOOR, ANIMAL HOUSE,

ANSARI NAGAR, NEW DELHI-110 029, INDIA

TENDER ENQUIRY DOCUMENT

(Two Bid System for Machinery & Equipments)

शरीरमाद्यं खलु धर्मसाधनम्

Advertised Tender Enquiry No.: XX-12/SO(DO)/PCCSM/2026- 27/M&E

Brief Description of Goods	:	Purchase of ECMO Machine (Extended Respiratory Support Application) - 01 No.

SECTION-I

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110 029

TENDERS ENQUIRY DOCUMENTS (TED)

Advertised Tender Enquiry No : XX-12/SO(DO)/PCCSM/2026-27/M&E

On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:

S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD
1.	Purchase of ECMO Machine(Extended Respiratory Support Application)	01 No.	INR Rs. 7,00,000/-

CRITICAL DATE SHEET

Published Date & Time	*21-04-2026* at 04.00 pm
Bid Document Download/Sale Start Date	*21-04-2026* at 04.00 pm
Seek Clarification Start Date	*21-04-2026* at 04.00 pm
Seek Clarification End Date	*27-04-2026* at 04.00 pm
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Pre Bid Meeting Place & Address	*Department of PCCSM, Room No. 2, New Private Ward, 3rd floor, AIIMS New Delhi.*
Bid Submission Start Date & Time	*08-05-2026* at 04.00 pm
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Bid Opening Date & Time	*26-05-2026* (Tuesday) at 03.00 pm

Instructions:

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3. The complete bidding process is online. Bidders should be possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above.

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7. The documents to be submitted in their bid may be scanned with 100 dpi with black and white option which helps in fast uploading.

8. The EMD/Bid Security shall be deposited through Bank Guarantee/Demand Draft/FDR drawn in favour of the **AIIMS Main Grant.** The original Earnest Money/Bid Security must be delivered to **Sr. Stores Officer, Store Section (DO), Ist floor, Animal House Building(Near Bio-technology Building) AIIMS, New Delhi-110029** till bid opening date and time as mentioned in "Critical Date Sheet" failing which the bid shall be summarily rejected.

SECTION – VI

LIST OF REQUIREMENTS

Part I

Sl. No.	Name of Equipment	Consignee	Quantity per Deptt. (No.)	Total Quantity per Schedule (No.)	Warranty Period	CAMC period after warranty
1	ECMO Machine (Extended Respiratory Support Application)	Department of PCCSM	01	01	02 year	08 year

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:
180 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date by when it is to be delivered at consignee site. Bidders may quote earliest delivery period.

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:
180 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Bidders may quote the earliest delivery period).

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Part III: Scope of Incidental Services:
Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13.

Part IV: Turnkey Work (if any) as per details in Technical Specification.

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.
Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:
Free Delivery at Consignee's Site(s)

b) For Imported goods directly from abroad:

The foreign bidders are required to quote their rates on CIP (Named Port of Destination Basis) giving breakup of the price as per the Performa prescribed in the Price Schedule. Purchaser will place the order on CIP (Named Port of Destination basis).

Insurance (Local Transportation and Storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Section – VII
TECHNICAL SPECIFICATION AND GENERAL POINTS

Technical Specifications for Portable ECMO: Quantity: 01 No.

1. Centrifugal Pump (Console with its Accessories):

a. Should generate 0 to atleast 5000 RPM.

b. Should be able to flow atleast 0 to 8 lits/LPM.

c. To work on power supply 220 to 240 V, 50 Hz to 60 Hz, and 11 V to 28 V DC.

d. Compact, lightweight console

e. Should have LCD touch Screen

f. Should display following parameters continuously or should provide additional monitor for monitoring:

- Total no's of Pressures (Measuring Range – 30- to + 300 mm Hg) measured should be atleast 4 in number –

  Pre pump (centrifugal)

  pre oxygenator

  post oxygenator

  Difference between pre and post oxygenator pressures (ΔP).

- Total no's of Temperatures (Measuring Range+ 10 to 40°C) measured should be atleast 2 in number – Arterial and Venous

- 01 no Venous Blood Oxygen Saturation (SvO2) (measuring Range : 40 to 100%).

- 01 no Haemoglobin (Measuring Range 05 to 15 gm/dl).

- 01 no Hematocrit (Measuring range 15 to 50%)

- 01 no flow sensor with integrated Bubble sensor which measures Blood flow rate and bubbles respectively.

- 01 no. Bubble sensor measuring Bubbles in the Blood Stream.

g. Portable Emergency Hand Crank.

h. Back Flow Prevention mode. (Zero Flow Mode).

i. Recording of Data in the unit (interval – 3 sec.'s to 10 min.'s) and retrieval of the same into a USB memory stick or into a Computer.

j. Two modes of operation atleast – ICU mode and Transport mode

k. 01 no. of Countdown Timer.

l. 02 modes of Control:

- LPM mode
- RPM mode

m. Battery Backup 60 - 90 mins.

n. Should have Road and Air Transport Approval.

2. **Heating Unit with its accessories:**

a. Temperature range setting form 35°C to 39°C.

b. Digital display for set temperature and outlet temperature.

c. To work on power supply 230 V, 50 Hz.

d. Should generate 03 to 05 LPM, 0.34 bar pressures.

e. Water Capacity 0.7 to 1.4 Ltrs.

f. Heat resistant Tubings with Hansen Coupling for quick connection.

3. **Sprinter Cart:**

a. Advanced cart design maximizing safety and convenience to move complete anywhere.

b. Infusion pole mast (Height adjustable).

c. Gas Cylinder holder for better portability.

4. **Air-Oxygen Blender:**

a. Mechanical air oxygen blender with hoses.

5. **Disposables: 10 kits to be provided at the time of purchase**

Each Kit should include or should be provided with:

a. Hollow fiber Diffusion membrane oxygenator (Poly Methyl Pentene Fiber) with 30 day US FDA/ CE certification for usage.

b. Centrifugal Pump Head.

c. PVC tubings which make a circuit with 30 day US FDA/ CE certification of usage.

d. Tip to tip Bioline Coating (Albumin + Heparin) or any biological Coating.

e. Oxygenator unit includes a hollow fiber Heat Exchanger with very less pressure drop.

f. Circuit minimized to its basic minimum components.

g. De-airing membrane in oxygenator.

h. Integrated Sensors for Pressures (Venous, Arterial and Internal) and Temperature (Arterial and Venous) monitoring.

i. Should have integrated Measuring Cell for Venous probe to measure Venous Oxygen saturation (SvO2), Hemoglobin, Hematocrit and Venous Temperature.

6. 10 arterial (19 Fr & 21 Fr – 5 each) canulas with individual insertion kits which should be heparin coated and with a warranty of atleast 2 years.

7. 10 venous (23 Fr & 25 Fr – 5 each) canulas with individual insertion kits which should be heparin coated and with a warranty of atleast 2 years.

8. The user department may request the vendor to replace the supplied canulas with a different size (smaller or larger) as per need within the warranty period of the cannula.

9. The vendor should give an undertaking that in case the kits (including cannulas) are not used and risk expiry, the vendor will replace the kits free of cost with new kits.

10. The quoted price should include the cost of the basic unit, 10 sets of disposable kits, 10 arterial (19 Fr & 21 Fr – 5 each) cannulas and 10 venous (23 Fr & 25 Fr – 5 each) cannulas.

11. All essential components and any other accessory required for smooth functioning of ECMO needs to be provided with the machine for atleast 10 patients as part of the ECMO kits.

12. Rates of the disposables should be quoted for a total period of 5 years and should be frozen for that duration.

13. The equipment should have BIS/USFDA/CDSCO certifications.

WARRANTY

a) As per AIIMS rules and should be quoted with 2-year comprehensive warranty and another 08 years of maintenance warranty (including all spares, batteries, circuit and other accessories).

b) The cost of additional accessories should quoted in the price bid which will be used to calculate L1.

c) Prices of all the spare/accessories required for maintenance of the equipment should be quoted along with the price bid. If the firm do not provide price of any part/accessories in the price bid the same will be provide free of cost by the company if required.

d) Company will be responsible to maintain equipment and accessories in working condition irrespective of the cause/reason/conditions/nature for not working of the equipment/accessories. Company will replace all the required parts/spares/accessories, labour/service during WARRANTY/CAMC period without any extra charges/taxes" (including and not limited to physical damage).

e) In case of any breakdown, fault, repair should be undertaken within 48 hours of receipt of such information. Failure to do so shall make the company liable for a penalty of Rs. 1000/- per day.

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