REQUEST FOR EXPRESSION OF INTEREST (EoI)

DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND TRAINING OF HD & SLED DIALYSIS MACHINES; DIALYSIS RO PLANT FOR THE DIALYSIS DEPARTMENT; AND SEPARATE ICU RO PLANT WITH DISTRIBUTION LOOP SYSTEM FOR IMSF AT IISc CAMPUS, BANGALORE

EOI DOCUMENT

NO: IMSF/EoI/26-27/01 – DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND TRAINING OF HD & SLED DIALYSIS MACHINES; DIALYSIS RO PLANT FOR THE DIALYSIS DEPARTMENT; AND SEPARATE ICU RO PLANT WITH DISTRIBUTION LOOP SYSTEM

12.05.2026

DIRECTOR,
IISC MEDICAL SCHOOL FOUNDATION, BANGALORE – 560012.

This Expression of Interest (EoI) invites proposals for the supply, installation, testing, commissioning, validation, and user training of Dialysis Machines with Haemodialysis (HD) and Sustained Low Efficiency Dialysis (SLED) capability, Dialysis RO Plant for the Dialysis Department, and a separate RO Plant with, ICU dialysis water distribution system for a modern tertiary care hospital.

The proposed scope shall include HD and SLED-capable dialysis systems, Dialysis RO Plant with associated pretreatment and closed-loop distribution system for the Dialysis Department, separate ICU dialysis RO distribution infrastructure, monitoring systems, accessories, start-up consumables required for commissioning, and all related workflow items necessary to make the system completely functional.

The vendor's scope shall include preparation and submission of coordinated technical drawings, utility load details, piping routing layouts, technical data sheets, and infrastructure coordination inputs required for execution and implementation, wherever applicable. The vendor shall also provide coordinated interface details and technical inputs for Electrical, Plumbing, HVAC, Fire Safety, Structural and ELV services, wherever applicable, for seamless site coordination.

The vendor shall supply, install, test, and commission all dialysis machines, RO systems, distribution loop piping, water treatment components, monitoring systems, accessories, and related items required for safe and efficient dialysis services in both the Dialysis Department and ICU areas.

The proposed systems shall be designed for reliable 24×7 operation with emphasis on patient safety, infection prevention, water quality compliance, workflow efficiency, redundancy, maintainability, and operational reliability.

The vendor shall prepare and submit all required technical documents, validation reports, water quality reports, test certificates, and commissioning records required for project completion and operational handover.

The complete system including dialysis machines, water treatment systems, RO plants, piping distribution systems, and associated infrastructure shall comply with applicable NABH guidelines, AAMI standards, ISO standards, IEC safety standards, BIS requirements, infection control protocols, and other applicable national and international standards.

PROJECT BRIEF:

The Proposed IMSF project is being constructed at Indian Institute of Science Campus, Bangalore - 560 012. The said Project is a combination of RCC and Steel Structure Building and it is 02 Basements + Ground + 9 Storeys + Helipad. Both basements are in RCC - Concrete Structure, but columns and roof framing works are in Structural Steel.
The project details are listed below.

- Total number of Beds: 832 Nos. (General Ward: 326 Nos, ICU/HDU: 222 Nos, Private Ward: 284 Nos)
- Daycare beds: 47 Nos
- Type of Structure: RCC + Structural Steel.
- Total site area: 14.35 Acres.
- Total built up area: 14,67,478.62 Square feet.
- Total number of basements(B): 02
- Building overall length (outer to outer): Length 239.58mtrs x Breadth 90.41 Mtrs.

- Total height of the building: 49.85 Mtrs. (Including Helipad)
- Total number of Block: 05 along with Core and Atrium areas etc., (A, B, C, D and E)
- Block A and Core areas (2B + GF + 03 upper floors + terrace) @ Height of 17.55 Mtrs
- Block B and Core areas (2B + GF + 09 upper floors + terrace) @ Height of 41.85 Mtrs
- Block C and Core areas (2B + GF + 09 upper floors + terrace) @ Height of 41.85 Mtrs.
- Block D (2B + GF + 07 upper floors + terrace) @ Height of 33.75 Mtrs
- Block E (GF + 05 upper floors + terrace) @ Height of 25.65 Mtrs.
- Atrium and Core areas.
  Basement 2 and 1 Parking Area – Partial areas.

At IISc Medical School Foundation, the planned infrastructure is designed to support a wide range of advanced clinical capabilities essential for patient care, teaching, and research. This comprehensive setup will facilitate the integration of cutting-edge technologies and services across various clinical areas, ensuring optimal outcomes and fostering innovation in healthcare practices.

Site Brief

- The proposed scope includes the supply, installation, testing, commissioning, and user training of HD & SLED Dialysis Machines for a 20-bedded Dialysis Department, along with a dedicated Dialysis RO Plant and a separate ICU RO Plant with distribution loop system at IISc Medical School Foundation (IMSF), IISc Campus, Bangalore. The ICU dialysis RO distribution system shall provide a total of 26 RO exit points across Block B and Block C covering designated ICU isolation rooms and critical care areas.

Technical, Utility and Infrastructure Coordination Requirements For Dialysis Machine, Dialysis Ro plant And ICU Distribution System.

1. Regulatory Compliance & Overall Responsibility

- Supply, installation, testing, commissioning, and user training of Dialysis Machines with HD & SLED capability, Dialysis RO Plant for the Dialysis Department, and ICU RO Plant with distribution loop system.
- Compliance with NABH, AAMI, ISO, IEC, BIS, and applicable healthcare regulations.
- Preparation and submission of technical documents, utility requirements, water quality validation reports, and commissioning documents wherever applicable.
- Integration readiness with HIS/EMR/BMS systems wherever applicable.
- Providing necessary technical inputs and coordination details to the client/project team for successful implementation.

2. Technical & Engineering Deliverables

- Detailed technical specifications and equipment data sheets.
- Utility load details and equipment heat load data.
- RO plant flow schematic and process flow diagrams wherever applicable.

- Distribution loop routing details for Dialysis Department and ICU areas wherever applicable.
- Equipment GA drawings, installation drawings, and utility connection details.
- Technical coordination drawings and documents required for execution and approvals.

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3. HVAC & MEP Interface Inputs

- Electrical connected load, UPS requirements, and earthing details.
- Raw water inlet quality, pressure, and flow requirements.
- Drainage requirements for dialysis stations and RO reject water.
- Plumbing and pex pipe loop interface requirements wherever applicable.
- Alarm contacts and communication interface details wherever applicable.
- Service clearances, maintenance access, and heat dissipation requirements.
- Fire and life safety interface requirements wherever applicable.
- Data and networking connectivity requirements wherever applicable.

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4. Equipment Supply, Installation & Commissioning

- Supply, installation, testing, and commissioning of HD and SLED-capable dialysis machines.
- Supply, installation, testing, and commissioning of Dialysis RO Plant with pretreatment system, RO system, endotoxin filters, UV system, and closed-loop distribution system.
- Supply, installation, testing, and commissioning of separate ICU RO Plant with ICU dialysis water distribution loop system.
- Supply of online monitoring systems for conductivity, pressure, temperature, and water quality parameters with provision for connectivity and integration with the Hospital Building Management System (BMS), wherever applicable.
- Provision of accessories, start-up consumables, and workflow items required for complete functionality.
- User training, operational training, safety labeling, and handover documentation.
- Provision for future scalability and expansion wherever applicable.

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5. Functional Space Planning

- Dialysis machines suitable for continuous operation in Dialysis Department and ICU areas.
- SLED-capable dialysis machines suitable for critical care applications.
- RO systems designed for dialysis-grade water quality compliance as per AAMI standards.
- Closed-loop distribution systems for maintaining water quality and circulation.
- Proper segregation and routing for dialysis water distribution systems wherever applicable.
- Technical service accessibility and maintenance requirements.

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6. Quality, Performance & Compliance

- Compliance with approved specifications and applicable codes and standards.
- Water quality compliance as per AAMI standards.
- Reliability and redundancy for uninterrupted dialysis services wherever applicable.
- Energy-efficient and service-friendly system design.
- Performance validation, testing, commissioning, and compliance documentation..

SCOPE OF WORK MATRIX				
SL. NO	**GROUP**	**SCOPE OF WORK**	**RESPONSIBILITY**	**REMARKS**
1	CIVIL	CIVIL CONSTRUCTION	CLIENT SCOPE	EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
2	CIVIL	FLOORING, WALL FINISHES & DRAIN SLOPES	CLIENT SCOPE	EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
3	CIVIL	EQUIPMENT FOUNDATION & RO PLANT BASE	CLIENT SCOPE	EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
4	CIVIL	SUPPLY & INSTALLATION OF DIALYSIS WALL STATIONS	VENDOR SCOPE	COMPLETE WITH REQUIRED CONNECTIONS & ACCESSORIES
5	ELECTRICAL	POWER, UPS & EARTHING	CLIENT SCOPE	AS PER VENDOR REQUIREMENT
6	ELECTRICAL	DEDICATED POWER FOR HD/SLED & RO SYSTEM	CLIENT SCOPE	AS PER VENDOR REQUIREMENT
7	PLUMBING	RAW WATER INLET & DRAINAGE	CLIENT SCOPE	AS PER APPROVED DRAWINGS
8	PLUMBING	DIALYSIS & ICU RO WATER DISTRIBUTION LOOP	VENDOR SCOPE	COMPLETE SUPPLY, INSTALLATION, TESTING & COMMISSIONING
9	HVAC	AIR CONDITIONING & VENTILATION	CLIENT SCOPE	COORDINATION INPUTS BY VENDOR WHEREVER APPLICABLE
10	MGPS	MEDICAL GAS POINT COORDINATION	CLIENT SCOPE	COORDINATION INPUTS BY VENDOR WHEREVER APPLICABLE
11	ELV	NETWORKING & DATA POINTS	CLIENT SCOPE	COORDINATION INPUTS BY VENDOR WHEREVER APPLICABLE
12	ELV	HIS/BMS INTERFACE READINESS	VENDOR SCOPE	WHEREVER APPLICABLE
13	FIRE	FIRE DETECTION & SAFETY	CLIENT SCOPE	AS PER PROJECT DESIGN
14	INTERIOR	FIXED & LOOSE FURNITURE	CLIENT SCOPE	AS PER FINAL APPROVED LAYOUT
15	OTHERS	WATER QUALITY TEST REPORTS & VALIDATION DOCUMENTS	VENDOR SCOPE	TO BE SUBMITTED DURING COMMISSIONING
16	OTHERS	USER TRAINING & DOCUMENTATION	VENDOR SCOPE	COMPLETE HANDOVER DOCUMENTS

LIST OF MEDICAL EQUIPMENT

SL NO	EQUIPMENT NAME	MAKE	MODEL	COMPLIANCE (YES/NO)	TECHNICAL SPECIFICATIONS OFFERED AND UNIQUE FEATURES
1	Dialysis Machine				
2	Dialysis machine with SLED facility				
3	Chemical Mixture				
4	Dialyser reprocessing unit				
5	RO plant (Dialysis 20-Beded)				
6	RO plant (ICU Distribution)				

DETAILED LOCATION OF ICU DIALYSIS RO-WATER PORTS:

FLOOR	AREA	BLOCK	LOCATION
First	SICU-18 Bed	B	Isolation Room
First	SICU-18 Bed	B	Isolation Room
First	SICU-9 Bed	C	Isolation Room
First	CTVS ICU	C	Isolation Room
First	CCU	C	Isolation Room
Second	PICU	B	Isolation Room
Second	MICU-19	B	Isolation Room
Second	MICU-19	B	Isolation Room
Second	MICU-10	B	Isolation Room
Second	RICU-10	B	Isolation Room
First	SICU-18 Bed	B	1 bed
First	SICU-18 Bed	B	1 bed
First	SICU-9 Bed	C	1 bed
First	CTVS ICU	C	1 bed
First	CCU	C	1 bed
First	TICU	C	3 beds
Second	PICU	B	1 bed
Second	MICU-19	B	1 bed
Second	MICU-19	B	1 bed
Second	MICU-10	B	1 bed
Second	RICU-10	B	1 bed
Sixth	Isolation room (-ve)	C	Isolation Room
Sixth	Isolation room (-ve)	C	Isolation Room
Sixth	Isolation room (-ve)	C	Isolation Room

Sixth	Isolation room (+ve)	C	Isolation Room
Sixth	Isolation room (+ve)	C	Isolation Room

BLOCK-WISE SUMMARY OF ICU DIALYSIS RO EXIT POINTS:

BLOCK	FLOOR	NO. OF RO EXIT POINTS
Block B	First Floor	4
Block B	Second Floor	10
Block B	**Total**	**14**
Block C	First Floor	7
Block C	Sixth Floor	5
Block C	**Total**	**12**

VENDOR QUALIFICATION CRITERIA

To ensure the successful execution of the proposed Dialysis machine and Ro-plant solution, vendors participating in this proposal process must meet the following qualification criteria:

1. The vendor must be a legally registered entity in India with a valid GST registration.
2. The vendor must provide average annual turnover for the last 3 years.
3. Vendors must provide Dialysis machine and Ro-plant management software which should be interoperable with the hospital HIS/ EMR system including Realtime monitoring and recording of temperature sensitive equipment
4. The vendor must maintain adequate technical and skilled manpower for the timely execution of the project, including a dedicated project manager as required by the client.
5. Ability to provide all operation and maintenance manuals, as-built drawings, warranty certificates, and statutory clearances at the time of project handover.
6. The vendor should declare that they have not been blacklisted or debarred by any government, healthcare, or institutional body.
7. Declaration of no ongoing legal disputes that may affect project execution.

The Conditions of EoI are the terms under which IMSF will receive and assess Expressions of Interest (EoI). Non-compliance with these conditions may result in the EoI being disqualified without further review.

The EoI must include all relevant details and information requested in this document. Following the submission of the Expression of Interest (EoI), vendors who meet the initial requirements will be invited to deliver a presentation. This presentation serves as an opportunity for vendors to showcase their proposed solutions, including technical capabilities, product features, and how their offering aligns with the project's objectives. Vendors are required to bring all their Original Equipment Manufacturer (OEM) partners to the presentation and fully demonstrate their complete potential, including all components relevant to the EoI. During the presentation, vendors should also address any questions from IMSF, clarify details of their solution, and demonstrate the suitability of their approach. If necessary, IMSF will communicate any additional specifications or OEM requirements that need to be incorporated into the solution.

After the presentation phase, Selected vendors will be required to submit detailed technical bid, including comprehensive information on the technology, equipment, systems, and services they plan to

provide. The technical bid must also demonstrate compliance with the relevant global and national industry standards. If any updates or modifications are required based on discussions during the presentation, the technical bid may have to be revised as per the points raised in the discussion. Once all the technical criteria are evaluated. The vendors whose technical bid matches with the requirements of IMSF will be asked to submit the financial bid.

These financial bids should outline the financial aspects of their proposals, including costs for equipment, installation, support, and any other related services. The final selection will be based on a combination of technical merit and cost-effectiveness to ensure the best overall solution for IMSF.

TIMELINES AND CONTACT DETAILS

The due date for submission of EoI is **JUNE 3RD , 2026, WEDNESDAY, 5:30 PM**

Enquires, and requests for further information about this RFQ,should be directed to the Contact Officer as follows:

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