REQUEST FOR EXPRESSION OF INTEREST (EoI)
DESIGN OF BLOODBANK, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND USER TRAINING OF BLOOD BANK EQUIPMENT FOR IMSF AT IISc CAMPUS, BANGALORE

EOI DOCUMENT

NO: IMSF/EoI/25-26/06 –DESIGN OF BLOOD BANK LAYOUT, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR BLOOD BANK EQUIPMENT

Date: 18.02.2026

DIRECTOR,
IISC MEDICAL SCHOOL FOUNDATION, BANGALORE – 560012.

This Expression of Interest (EoI) invites proposals for a comprehensive Blood Bank solution for a modern hospital, covering planning, detailed design, statutory drawings, supply, installation, testing, commissioning, validation, user training, and support for regulatory approvals.

The scope includes a complete and integrated system for safe collection, component preparation, testing, storage, inventory management, and issue of blood and blood components to support all critical clinical services.

The vendor shall provide equipment planning, coordinated layout drawings, utility load details, and multidisciplinary shop-drawing inputs required for execution and approvals, along with supply of all medical-grade equipment, IT/LIS, monitoring systems, and start-up consumables.

The vendor shall prepare, submit, and obtain all statutory approvals and ensure compliance with the Drugs & Cosmetics Act & Rules (India), NBTC, NABH, WHO, and relevant ISO 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.

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- Location: IISc Medical School Foundation Campus Bangalore
- Blood Bank total area: 2500 SQF Approximately

DESIGN INPUTS FOR LAYOUT, MEP & EQUIPMENT SUPPLY – BLOOD BANK

1. Regulatory Compliance & Overall Responsibility

- Design and planning of the Blood Centre/Blood Bank with coordinated inputs for Civil, HVAC, Electrical, Plumbing, Fire Safety, Structural and ELV services.
- Compliance with NABH, NABL (ISO 15189), NACO, CDSCO, JCI, WHO and applicable regulations.
- Supply, installation, testing and commissioning of all blood bank equipment and accessories.
- Preparation of drawings, technical documents, validation records and statutory submissions.
- Obtaining blood bank statutory approval from the competent authority.

2. Design & Engineering Deliverables

- Detailed technical specifications and coordinated equipment layouts.
- Utility load calculations and equipment heat load data.
- Room-wise environmental requirements.
- Fully coordinated shop drawings for execution and approvals.
- ELV integration inputs

3. HVAC & MEP Interface Inputs

- Air changes, temperature, humidity and pressure differentials.
- Electrical connected load, UPS, redundancy and earthing requirements.
- Power quality, alarm contacts and communication interfaces.
- Plumbing inlet quality, pressure, flow, drainage and termination points.
- Fire and life-safety interface requirements.
- Data/network connectivity matrix.
- Exhaust airflow and discharge conditions.
- Service clearances, vibration control, heat dissipation and maintenance access.
- Floor loading limited to equipment interface data.

4. Equipment Planning & Supply

- Workflow-based equipment layout for donor, laboratory, component preparation, storage,issue areas and all blood bank areas.
- Submission of equipment GA, utility requirements and anchoring details.
- Supply of medical-grade, energy-efficient equipment suitable for 24×7 operation with realtime temperature monitoring as applicable.
- In-built temperature monitoring, alarms, audit trails and traceability.
- LIS/Blood Bank software compatibility and HIS/EMR/BMS interface readiness.
- Equipment labelling, safety signage and user training.

5. Functional Space Planning

- Donor areas: reception, registration, medical examination, collection and recovery.
- Laboratories: testing, component preparation, quality control and compatibility testing.
- Storage: temperature-monitored areas for blood and components.
- Support areas: washing, biomedical waste holding (with separate exit), staff change rooms and technical service rooms.
- Access-controlled movement with unidirectional workflow and infection control as applicable.
- Others as applicable based on statutory requirements

6. Quality, Performance & Sustainability

- Compliance with approved specifications, applicable codes and GRIHA requirements where specified.
- Performance monitoring through KPIs, audits, statutory inspections and compliance reviews.

SCOPE OF WORK MATRIX				
SL. NO	GROUP	SCOPE OF WORK	RESPONSIBILITY (VENDOR/CLIENT)	REMARKS
	CIVIL	CIVIL CONSTRUCTION	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
1		PLAIN CEMENT CONCRETE	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
2		FLOOR & WALL TILES	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
3		GLASS PARTITION	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
4		GYPSUM PARTITION	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
5		WALL PANELLING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
6		OUTER GLAZING WORK	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
7		OUTER WALLS WITH PLASTERING AND PAINTING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
8		PAINTING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
9		WINDOWS	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
10		DOORS	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
		CEILING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR

		FURNITURE	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
11	ELECTRICAL	POWER, LIGHTING & EARTHING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
12	PLUMBING	PLUMBING WORK (SUPPLY, DISTRIBUTION & DRAIN)	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
13	HVAC	AIR CONDITIONING, AHU, CHILLED WATER LINES	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
14		EXHAUST POINT AT THE REQUIRED PLACES.	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
15	MGPS	GAS WORK	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
16	ELV	NETWORKING AND DATA BOARDS	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
		CCTV FOR CENTRAL MONITORING	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
		CCTV FOR WORKFLOW	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
17		INTERNET CONNECTION	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
18	FIRE	FIRE DETECTION SYSTEM	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR

19		FIRE SUPPRESSION SYSTEM (WATER BASED)	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
20		FIRE SUPPRESSION SYSTEM (GAS BASED)	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
21	INTERIOR	FIXED FURNITURE (CUPBOARDS, ETC.)	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
22		LOOSE FURNITURE (CHAIRS)	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
23		SIGNAGE	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
24		WORKFLOW ITEMS	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR
25	OTHERS	PNEUMATIC CHUTE WORK	CLIENT SCOPE	PROVIDING NECESSARY TECHNICAL INPUT FOR EXECUTION BY CLIENT'S ONBOARD CONTRACTOR

LIST OF MEDICAL EQUIPMENT

SL NO	DEPT NAME	EQUIPMENT NAME	QTY	COMPLIANCE(YES/NO)	TECHNICAL SPECIFICATIONS OFFERED AND UNIQUE FEATURES
1	APHERESIS ROOM	APHERESIS MACHINE (TRIMA)	4		
2	APHERESIS ROOM	DONOR COUCH	4		
3	BLOOD COMPONENT ROOM	TUBE SEALER	2		
4	BLOOD COMPONENT ROOM	BLOOD BANK REFRIGERATED CENTRIFUGE	2		
5	BLOOD COMPONENT ROOM	ANALYTICAL DIGITAL BALANCE	1		
6	BLOOD COMPONENT ROOM	-35 DEEP FREEZER	2		
7	BLOOD COMPONENT ROOM	-80 DEEP FREEZER	2		
8	BLOOD COMPONENT ROOM	PLATELET INCUBATOR & AGITATOR	2		

9	BLOOD COMPONENT ROOM	BLOOD BANK REFRIGERATOR-300LITRE	2		
10	BLOOD COMPONENT ROOM	PLASMA EXPRESSOR (MANUAL)	3		
11	BLOOD COMPONENT ROOM	PLASMA THAWING BATH	1		
12	BLOOD COMPONENT ROOM	DOUBLE PAN BALANCE (WEIGHING SCALE FOR BLOOD BAG)	1		
13	BLOOD COMPONENT ROOM	STRIPPER	2		
14	BLOOD COMPONENT ROOM	BLOOD BANK REFRIGERATED CENTRIFUGE	1		
15	BLOOD COMPONENT ROOM	LAMINAR AIR FLOW WORKSTATION	1		
16	BLOOD COMPONENT ROOM	PLASMA EXPRESSOR (SEMI/FULLY AUTOMATED)	1		
17	BLOOD COMPONENT ROOM	CRYO BATH	1		
18	CAMP	HAEMOGLOBINOMETER	1		
19	CAMP	WEIGHING SCALE	1		
20	CAMP	TUBE SEALER	1		
21	CAMP	STRIPPER	1		
22	CAMP	BLOOD COLLECTION MONITOR	6		
23	DONOR ROOM	DONOR COUCH	7		
24	DONOR ROOM	BLOOD COLLECTION MONITOR	7		
25	DONOR ROOM	TUBE SEALER	1		
26	DONOR ROOM	STRIPPER	1		
27	EXAMINATION ROOM	HAEMOGLOBINOMETER	1		
28	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	CENTRIFUGE MACHINE	2		
29	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	GEL SYSTEM FOR BLOOD BANK (CENTRIFUGE, INCUBATOR, READER)/ FULLY AUTOMATED BLOOD GROUPING AND CROSS MATCHING	1		
30	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	STERILE CONNECTING DEVICE	1		
31	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	AUTOMATIC COMPONENT PROCESSOR	1		

32	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	BLOOD BANK REFRIGERATOR-300LITRE	3		
33	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	VORTEX MIXERS	1		
34	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	WATER BATH	1		
35	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	PLASMA THAWING BATH	1		
36	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	PLATELET INCUBATOR & AGITATOR	1		
37	LAB FOR TTD	VDRL SHAKER	2		
38	LAB FOR TTD	CENTRIFUGE MACHINE	1		
39	LAB FOR TTD	ELISA READER AND WASHER	1		
40	NAT LAB	NUCLEIC ACID EXTRACTOR	1		
41	NAT LAB	RT PCR MACHINE	1		
42	NAT LAB	BIOSAFETY CABINET	1		
43	NAT LAB	CENTRIFUGE MACHINE	1		
44	NAT LAB	VORTEX MIXERS	1		
45	NAT LAB	THERMAL CYCLER	1		
46	NAT LAB	DEEP FREEZER (4'C, -20, -80)	1		
47	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	CELL COUNTER/HEMATOLOGY ANALYZER	1		
48	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	AUTOMATED CHEMILUMINESCENCE-BASED IMMUNOASSAY SYSTEM	1		
49	LAB FOR BLOOD GROUPING SEROLOGY/CROSS MATCH AND ISSUE ROOM	COAGULOMETER	1		
50	QC ROOM	PH METER	1		
51	QC ROOM	LAMINAR AIR FLOW WORKSTATION	1		

52	QC ROOM	WATER BATH	1		
53	QC ROOM	CENTRIFUGE MACHINE	1		
54	QC ROOM	ANALYTICAL DIGITAL BALANCE	1		
55	QC ROOM	STRIPPER	1		
56	REFRESHMENT ROOM	REFRIGERATOR	1		
57	STERILIZER/WASHING AREA	AUTOCLAVE MACHINE-VERTICAL	1		
58	WASH AND STERILIZATION ROOM	INCUBATOR-SMALL	1		
59	WASH AND STERILIZATION ROOM	HOT AIR OVEN	1		
60	OTHER WORKFLOW ITEMS INCLUDING BUT NOT LIMITED TO DISPLAY FOR ROOM TEMPERATURE,PRESSURE GRADIENT & HUMIDITY LEVEL ETC AS REQUIRED		AS REQUIRED AS REQUIRED		
62	ADDITIONAL ITEMS REQUIRED TO MAKE THE BLOOD BANK COMPLETELY FUNCTIONAL AND TO ENHANCE ITS OVERALL PERFORMANCE ARE TO BE PROVIDED BELOW				

Note:The above list is indicative that vendors can provide recommendations based on their design input.

VENDOR QUALIFICATION CRITERIA

To ensure the successful execution of the proposed blood bank 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 blood bank 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 IMS 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 th **11th March 2026, Wednesday, 5:30 pm Indian Standard Time.**

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

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