

**REQUEST FOR EXPRESSION OF INTEREST (Eoi)
DSITC OF GROUND FLOOR OT, C SECTION OT, TRANSPLANT
RECIPIENT ICU AND BONE MARROW TRANSPLANT TURNKEY
WORKS FOR IMSF (ON BEHALF OF IISc) AT IISc CAMPUS,
BANGALORE**



**Eoi DOCUMENT
DSITC OF GROUND FLOOR OT, C SECTION OT, TRANSPLANT
RECIPIENT ICU AND BONE MARROW TRANSPLANT TURNKEY WORKS
No: IMSF(ON BEHALF OF IISc)/Eoi/24-25/03 – DSITC OF TURNKEY
WORKS**

**Director,
IISc Medical School Foundation (on behalf of IISc)/,
Bangalore – 560012.**

EoI:OVERVIEW

This Expression of Interest (EoI) invites proposals for a complete turnkey solution for the establishment of a modern Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant. The solution should encompass all construction and infrastructure work, including civil, mechanical, electrical, and plumbing (MEP) works, HVAC systems, and any architectural modifications necessary to support the department, ensuring compliance with relevant regulations and standards to ensure patient safety, infection control, and operational efficiency.

PROJECT BRIEF:

The Proposed IMSF (on behalf of IISc) 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 DSITC of ELV works are to be executed in co-ordination with all other services. The project details are listed below.

- Total number of Beds: 832 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, 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. Further details about IISc and its requirements can be accessed from:

<https://medicine.IISc.ac.in/>

DESIGN AND PLANNING CONSIDERATIONS:

The design and commissioning of the Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant, must focus on achieving optimal functionality while ensuring compliance with relevant regulations and safety standards. Vendors are expected to integrate essential elements, including efficient workflow, proper equipment layout, and robust safety protocols, such as infection control and hazardous material handling.

As part of the workflow, vendors must ensure that essential items, such as scrub stations and laminar hoods, are provided, while ancillary items like OT lights, pendants, and OR integration should also be considered. Additionally, the design should comply with applicable national and international standards, guidelines, and accreditation requirements.

Vendors must clearly specify the standards and guidelines applied to each relevant aspect of the Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant, and other supporting facilities, in their submission. This demonstrates a commitment to creating a safe and functional environment.

KEY CONSIDERATIONS INCLUDE:

- Aesthetically appealing and functional Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant layouts.
- Optimized workflows to enhance operational efficiency.
- Adequate electrical infrastructure to support current electrical load and accommodate future expansion.
- Proper ventilation systems to maintain air quality.
- Integration and compatibility to hospital EMR systems.
- Medical gas pipeline systems as necessary.
- Appropriate plumbing installations and other necessary services for the proper functioning of the Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant.
- Comprehensive civil works, including construction of new structural elements, flooring, wall finishes, and ceilings as applicable, ensuring the Ground floor OT, C-section OT, Transplant recipient ICU and Bone marrow transplant is built to meet healthcare facility standards from the ground up.

SCOPE OF WORK

Sl. No	Group	Scope of Work	Responsibility (Vendor/Client)	Remarks
1	Civil	Plain Cement Concrete	Vendor scope	If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and

				overseeing the execution by the client's onboard contractor.
2		Floor & Wall Tiles	Vendor scope	<p>Floor leveling and flooring is under the scope of turnkey vendor.</p> <p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>
3		Glass Partition	Vendor scope	<p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>
4		Gypsum Partition	Vendor scope	<p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>
5		Wall Paneling	Vendor scope	<p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>

6		Outer Glazing Work	Client scope	
7		Outer Walls with Plastering and Painting	Client scope	Vendor to share main Door dimension to Client as external works outside turnkey perimeter is under the scope of Client.
8		Toilet Walls	Vendor scope	If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
9		Painting	Vendor scope	If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
10		Windows	Vendor scope	If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
11		Doors	Vendor scope	If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
12	Electrical	Power, Lighting &	Vendor scope	Client will provide the main

		Earthing		<p>cable line to the turnkey area distribution panel. Vendor to define load requirements and cable sizes.</p> <p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>
13	Plumbing	Water Supply, Distribution, and Drainage	Vendor scope	<p>Plumbing work must connect to the client's main drain. Vendor to detail trench requirements. Client is responsible for grade slab execution. Treated water at shaft location provided by Client, further connections under vendor scope.</p> <p>If required the turnkey vendor can take support of the contractor who is onboarded by the client for execution of work. But the turnkey vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.</p>
14	HVAC	Air Conditioning, AHU, Chilled Water Lines	Client scope	<p>The vendor shall provide the design and specifications for the AHU, which must meet the following requirements:</p> <ol style="list-style-type: none"> 1. It must be a smart AHU incorporating a heat pipe. 2. Integrated pumps (IP online) should replace traditional two-way valves. 3. Detailed AHU technical

				<p>specifications must be included.</p> <ol style="list-style-type: none"> 4. The cooling coil should be designed per the project needs. 5. The total AHU capacity must be specified. 6. The GPM (gallons per minute) flow rate should be indicated. 7. The recirculation flow rate should be detailed. <p>The vendor is responsible for providing the ducting design from the AHU, offering the necessary technical input, and overseeing the execution by the client's onboard contractor</p>
15		Exhaust Points	Client scope	The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
16	MGPS	Medical Gas Work	Client scope	The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
17	ELV	Networking and Data Boards	Client scope	Turnkey vendor to specify required network port locations. The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
18		Internet Connection	Client scope	Turnkey vendor to specify required port locations. The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.

19	Fire	Fire Detection System	Client scope	Vendor to recommend layout; Client to execute based on approved designs. Necessary openings in false ceiling to be provided by the vendor. The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
20		Fire Suppression System	Client scope	Includes pipe routing and placement of sprinklers/detectors. Client to execute per approved vendor design. The vendor is responsible for providing the necessary technical input, and overseeing the execution by the client's onboard contractor.
21	Interior	Medical Furniture	Client scope	As applicable
22		Fixed Furniture (Cupboards, etc.)	Vendor scope	As applicable
23		Loose Furniture (Chairs)	Vendor scope	As applicable
24		Signage	Vendor scope	As applicable
25	Others	Pneumatic Chute Work	Client scope	

Note: All approved makes will be shared by the Client for relevant items as defined in the scope.

PROPOSAL REQUIREMENTS:

Interested vendors must account for all aspects of the project, including packing, transportation, handling (loading, unloading, lifting, storing), scaffolding, and coordination with other contractors. Furthermore, the contractor shall provide a defects liability period of two years post-commissioning to guarantee service reliability.

SUPPLIER ELIGIBILITY:

1. Turnkey service providers must have a presence in India for over 10 years.
2. Materials sourced from countries sharing land borders with India will be excluded from

- this Expression of Interest (EoI).
3. Vendors must provide a complete turnkey solution as a package, ensuring all systems are integrated and operational. The organization will determine the specific requirements for a comprehensive turnkey solution, which the vendor must provide as a fully integrated and operational package.
 4. Suppliers should have a registered office in Bangalore with trained engineers, spare parts availability, calibration equipment, and installation references.
 5. Turnkey service providers must demonstrate experience in providing modular OT solutions and services, supported by a proven track record in similar projects.
 6. Turnkey service providers may partner with other suppliers to fulfill the requirements, and it is not necessary for all items to be supplied directly by the primary vendor. However, the complete responsibility of the completion of all the tasks will be that of the primary vendor.
 7. Any eligible company as per Make in India-PPP (domestic bidder) may submit the EoI.

THE LIST OF UNIQUE ROOM/AREA UNDER THE SCOPE OF DSITC OF TURNKEY WHICH INCLUDES, BUT NOT LIMITED TO THE FOLLOWING

SL. No	AREA/ROOM	SCOPE OF WORK INCLUDING BOQ FOR EACH AREA	Remarks
1	Ground floor OT 1: Ophthalmic OT		
2	Ground floor OT 2: DAYCARE OT		
3	Sterile store		
4	Sterile and non-sterile corridor		
5	Transplant ICU bed		
6	Ante space		
7	Toilets		
8	C section OT 1: OBG/GYN		
9	C section OT 2: OBG/GYN		
10	Resuscitation bay		
11	Sterile store		
12	Store		
13	Sterile and non-sterile corridor		
14	Post observation room		
15	Equipment room		
16	Medication Rooms		
17	Clean Utility (CU)		
18	Dirty Utility (DU)		
19	Patient and Staff Toilets (Multiple Locations)		
20	Nurse Duty Room		

21	Sterile and Non-Sterile Corridors		
22	Ante space (Multiple Locations)		
23	Meeting room		
24	Doctor Room		
25	Staff room (Multiple Locations)		
26	Observation room (Multiple Locations)		
27	Counseling/ duty room		
28	Pantry		
29	Reception and billing		
30	Future Expansion		
31	Change room (Multiple Locations)		
32	Staff room		
33	Observation room		

The Conditions of EoI are the terms under which IMSF (on behalf of IISc) 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 (on behalf of IISc), clarify details of their solution, and demonstrate the suitability of their approach. If necessary, IMSF (on behalf of IISc), 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 (on behalf of IISc), 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 (on behalf of IISc).

The due date for submission of EoI is 20th Jan 2025.

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

Contact Officer: Mrs. Dhanyasree S., Admin Executive
IISc Medical School Foundation / Office of Admin, Deans Main Building
IISc, Bangalore – 560 012

Contact No: 08022933584

Email Id: office@iiscmedicalschoolfoundation.org