

EXPRESSION OF INTEREST (EOI)

for

TRANSFER OF TECHNOLOGY (ToT) OF 1.5 TESLA INDIGENOUS MAGNETIC RESONANCE IMAGING (IMRI) SYSTEM

Issued by
Society for Applied Microwave Electronics Engineering & Research (SAMEER)
(An Autonomous R&D Institution under the Ministry of Electronics and Information Technology, Government of India)

On behalf of the IMRI Consortium
Society for Applied Microwave Electronics Engineering & Research (SAMEER), Mumbai
Inter-University Accelerator Centre (IUAC), New Delhi
Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram

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Address for Submission	The Director General, SAMEER, IIT Campus, Powai, Mumbai – 400076
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1. Introduction

The Society for Applied Microwave Electronics Engineering & Research (SAMEER) is an autonomous Research & Development institution under the Ministry of Electronics and Information Technology (MeitY), Government of India. SAMEER carries out application-oriented research and technology development in the areas of RF & Microwave Engineering, Medical Electronics, Medical Linear Accelerators, Electromagnetic Compatibility (EMI/EMC), Photonics, Antennas, Communication Systems, Radar Systems, Thermal Engineering and associated software technologies.

The IMRI Consortium refers to a institutional framework established for the development, productization, technology transfer and commercialization of the Indigenous 1.5T MRI technology. SAMEER, Mumbai shall act as the Nodal Agency, responsible for overall coordination, project management, industry engagement, EOI/RFP and Technology Transfer (ToT) processes, system-level integration and monitoring. Inter University Accelerator Centre (IUAC), New Delhi and Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram shall act as Implementing Partner Institutions, contributing their respective technical expertise, technologies, know-how, documentation, training and handholding support for successful transfer and productization of the IMRI technology.

The Indigenous Magnetic Resonance Imaging (IMRI) Programme, initiated under the aegis of the Ministry of Electronics & Information Technology (MeitY), Government of India, and implemented by SAMEER in collaboration with C-DAC and IUAC, has resulted in the indigenous development and integration of several critical technologies required for a 1.5 Tesla MRI system, including RF coils, high-power RF amplifier, FPGA-based spectrometer, control and monitoring systems, pulse sequences, image reconstruction/visualization software, patient couch, and superconducting magnet technologies.

The Indigenous Magnetic Resonance Imaging (IMRI) system has been successfully developed and demonstrated. Competent Indian industries are proposed to be engaged for transforming the indigenous 1.5T IMRI prototype into a regulatory-compliant, production-ready and commercially deployable product. The technology licensing for commercialization will be undertaken through an Expression of Interest (EOI) followed by Request for Proposal (RFP) process.

2. Objective of the EOI

The objective of this Expression of Interest (EOI) is to identify technically competent and financially sound Indian industries for Transfer of Technology (ToT) and commercialization of the indigenous 1.5 Tesla whole-body MRI Scanner developed by the IMRI Consortium under the IMRI Programme. The selected industry shall undertake technology absorption, product engineering, manufacturing, system integration, testing, regulatory compliance, commercial production, deployment, and lifecycle support, with technical handholding from the IMRI Consortium.

Specifically, the EOI seeks participation from Indian industries interested in:

- Acquiring and absorbing the IMRI technology developed by the IMRI Consortium through a structured ToT process;
- Manufacturing and demonstration of 1.5T clinical scanner using IMRI technology with hand holding by the IMRI consortium

3. Eligibility Criteria

"Indian Industry", for the purpose of this EOI, means a company, Limited Liability Partnership (LLP), partnership firm, or any other legal entity that:

- is incorporated or registered in India under the applicable laws of India;
- has its principal place of business and manufacturing/engineering facilities located in India;
- is operational in India and compliant with all applicable statutory requirements, including registration under the Companies Act, 2013 or the Limited Liability Partnership Act, 2008, as applicable;
- has at least 51% ownership and effective control by Indian citizens and/or Indian entities, certified by a Chartered Accountant; and
- is eligible to participate in Government procurement in accordance with the prevailing policies and guidelines of the Government of India.
- must not be involved in the development and/or manufacture of commercial MRI scanners in India or elsewhere.

In addition, applicants shall satisfy the following minimum eligibility requirements, duly supported by documentary evidence:

S.No.	Criteria	Documentary Proof
1	LLP, Company, or Partnership Firm registered and operational in India for at least 5 financial years as of 31 March 2026. Minimum 51% Indian shareholding (CA-certified).	Verifiable supporting documents to be submitted with the EOI
2	Valid GST and PAN registration.	Verifiable supporting documents to be submitted with the EOI
3	Annual turnover of INR 25.0 Crores or more, with positive net profit in each of the last 3 financial years ending 31 March 2026.	Verifiable supporting documents to be submitted with the EOI
4	Minimum 5 years of experience in manufacturing products in the field of Medical Equipment / RF Engineering / Electronics / Software / Mechanical & Heavy Engineering / Medical system integration, commissioning and maintenance.	Verifiable supporting documents to be submitted with the EOI
5	Not blacklisted by any Central/State Government, PSU, or autonomous organization.	Verifiable supporting documents to be submitted with the EOI
6	Not under insolvency or liquidation proceedings.	Verifiable supporting documents to be submitted with the EOI

4. Specifications of IMRI Scanner and Sub-Systems

The following technologies, developed under the IMRI Programme, are available for commercialization through the ToT route.

4.1 1.5T IMRI Scanner Specification

Sr. No.	Parameter	Value
1	Magnetic Field	1.5 Tesla
2	Frequency of Operation	63.87 MHz

Sr. No.	Parameter	Value
3	Bandwidth	600 kHz
4	Transmitted Power	15 kW Peak (max)
5	No. of Rx Channels	16
6	Imaging Coil Types	Body, Head and Knee Birdcage Coil; 12-Channel Head(8)-Neck(4) Coil; 20-Channel Array Coils embedded in the couch assembly (Posterior, 8 Ch) and overlay (Anterior, 12 Ch); Flexible 4-Ch Array Coil; 2", 3" and 5" Single-Channel Coils
7	Imaging Sequences	GRE, SE, IR, STIR, EPI, TSE/FSE, GRAPPA and other standard sequences
8	Main Magnetic Field Homogeneity (45 cm DSV)	< 10 ppm
9	Maximum Field of View	45 cm (isotropic)
10	Minimum Field of View	10 mm
11	Minimum Slice Thickness	2 mm
12	Patient Bore Diameter	~ 60 cm / 70 cm
14	Gradient Amplitude (mT/m, all XYZ axes)	33 (typical)
15	Gradient Slew Rate (mT/m/ms)	120 (typical)
16	Coolant	Helium (< 1500 litre)
17	Power Supply	~80 kVA

4.2 Subsystem Details

S.No.	Technology / Subsystem	Details
1	Whole-Body Superconducting MRI Magnet	1.5T / actively shielded / ± 3.8 ppm homogeneity @ 45 cm FOV / drift < 0.1 ppm per hour / 4.2 K / patient bore > 60 cm including wider-bore option and magnet electronics
2	High Power RF Amplifier	15 kW for body / 4 kW for extremities
3	High Power T/R Switch	T/R Switch for Body Scanning and T/R Switch for Head and Extremities Scanning
4	Front End Receiver	Front End Receivers for Birdcage Coils and Array Coils
5	RF Coils	Body, Head and Knee Birdcage Coil; 12-Channel Head(8)-Neck(4) Coil; 14-Channel Array Coils embedded in the couch assembly (Posterior/Spine Coil, 8 Ch) and overlay (Anterior, 6 Ch); General-Purpose Flexible 4-Ch Array Coil; 2", 3" and 5" Single-Channel Coils
6	Spectrometer	Transmitter & Receiver (FPGA-based), 8/16 channels
7	MRI Control, Monitoring & Interlock System	Amplifier control / Coil control / System control, monitoring and interlock circuit

S.No.	Technology / Subsystem	Details
8	IMRI Software	Pulse sequence — imaging and calibration / Image reconstruction / DICOM viewer / Console / GUI software
9	MRI Couch	Patient couch with control electronics

5. Intellectual Property Rights

The Intellectual Property Rights (IPR) relating to the IMRI technology shall remain with the IMRI Consortium (SAMEER, IUAC and C-DAC). The selected Industry shall use the technology transferred under ToT only for the authorized purposes of the programme and shall ensure confidentiality and protection of the technology. Detailed provisions concerning IPR, confidentiality, permitted use and commercialization, improvements and incremental innovations, licensing and royalty, liability, termination, Force Majeure, and other legal and commercial safeguards shall be defined at the RFP stage.

6. Technology Transfer/Licencing Process

- Eligible Industries will be selected through the EOI process
- Shortlisted Industries will have to submit detail proposal including plan of commercialization of IMRI technology, details industrial partners/sub-contractors along with their technical and financial capabilities in the subsequent RFP stage
- Memorandum of Agreement (MOA) and Non-Discloser Agreement (NDA) to be signed with the industries shortlisted in the RFP.
- Transfer of technical documents, Training and necessary handholding for the commercialization of IMRI Scanner will be provided after signing MOA and in receipt of applicable Technology license fees.
- In addition, a separate Limited Tender shall be published to the shortlisted/selected industries for the supply of three (3) IMRI scanners through a competitive procurement process, in accordance with the applicable Government rules.
- The IMRI Consortium shall provide technical handholding for a maximum period of 30 months from the date of signing of the MoA. Any support required beyond this period shall be considered and processed separately on mutually agreed terms and conditions.

The above framework is intended to ensure a systematic transition of the IMRI technology from the IMRI Consortium to Indian industry, culminating in the establishment of independent indigenous manufacturing, system-integration, commercialization, and lifecycle-support capability for the 1.5T MRI system.

7. Application Process

Interested industries are advised to carefully study this EOI document before submitting their applications. Submission of an application shall be deemed to constitute unconditional acceptance of all terms, conditions, eligibility requirements, instructions and implications contained in this EOI.

The following instructions shall be adhered to by all prospective applicants:

- This EOI to be published on the websites of SAMEER, C-DAC, IUAC, MeitY and on the national leading newspapers. Any corrigendum, addendum, clarification or amendment to this EOI shall be published

only on these websites. Applicants are advised to regularly visit these websites for updates until the closing date of the EOI.

- Each applicant shall submit a detailed Company Profile on its official letterhead, including the organization's background, business activities, manufacturing capabilities, quality certifications, relevant experience, and the contact details of the authorized representative. Refer Annexure A.
- The completed EOI application, together with all documentary evidence in support of the eligibility criteria specified in Section 3, shall be submitted in a sealed envelope superscribed "Expression of Interest (EOI) for Transfer of IMRI Technology." The sealed envelope shall be deposited in the Tender Box at the address indicated on or before the prescribed due date and time.
- Applications received through e-mail, fax, courier, or any other electronic mode, or those received after the stipulated deadline, shall not be accepted and are liable to be rejected without further correspondence.
- Applicants shall ensure that all information furnished in the EOI is complete, accurate and supported by valid documentary evidence. SAMEER reserves the right to seek additional information or clarification, if required, during the evaluation process.
- Applicants may visit SAMEER/IUAC/C-DAC, with prior intimation and approval, for technical discussions and/or clarifications before submission of their EOI response. Prior to any such visit or exchange of technical information, the applicant must sign a Non-Disclosure Agreement (NDA) with the respective organization (SAMEER/IUAC/C-DAC) being visited.

Address for Submission

The Director General
Society for Applied Microwave Electronics Engineering & Research (SAMEER)
IIT Campus, Powai
Mumbai – 400076

8. General Terms and Conditions

The following terms and conditions shall apply, in addition to the submission process set out in Section 7 for evaluation of applications received against this EOI:

- The decision of the IMRI Consortium regarding the evaluation and shortlisting of applicants shall be final. No correspondence regarding the evaluation process shall be entertained.
- Participation in this EOI does not guarantee selection, and does not confirm any commitment on the part of SAMEER, the IMRI Consortium, or MeitY.
- SAMEER reserves the right to accept or reject any or all applications without assigning any reason, and reserves the right not to proceed with the processing of EOI applications at any stage.
- Applicants shall not publish or advertise their EOI participation or related official communication on social media, news platforms, or any other website.
- All costs and expenses incurred by an applicant in the preparation, submission, presentation and clarification of its EOI application — including travel, meetings, site visits and due-diligence activities — shall be borne solely by the applicant. SAMEER, C-DAC, IUAC, and MeitY will accept no liability for any such costs, irrespective of the outcome of the EOI.

- If required, SAMEER and its authorized representatives reserve the right to inspect the facilities of the applicant during the EOI process.
- An application/proposal is liable to be disqualified for non-compliance in the eligible criteria, incomplete submission, late submission, misrepresentation or furnishing of false information, or any attempt to influence the evaluation process through unlawful or corrupt means.
- This EOI supersedes all prior agreements related to IMRI project issued by SAMEER/ C-DAC/ IUAC.
- An applicant shall not, in its own name or through any third party, file any patent, trademark, design or copyright application anywhere in the world in respect of the background know-how or technology made available or disclosed by SAMEER/ C-DAC/IUAC/ or MeitY in connection with this EOI.
- The selected industry shall comply with all applicable laws, rules, regulations, standards and guidelines throughout.
- The details of technology transfer/licensing fees and royalty mechanism will be provided in the RFP stage.
- The courts at Mumbai shall have exclusive jurisdiction over any disputes arising out of or in connection with this EOI.

Contact Details

For any clarification regarding this EOI, applicants may contact:

Mr. Tapas K. Bhuiya, Scientist 'F'
Society for Applied Microwave Electronics Engineering & Research (SAMEER)
IIT Campus, Powai, Mumbai – 400076
Email: tapas@sameer.gov.in

Annexure A — Application / Statement of Interest Cover Sheet

EoI Reference Number:

(To be submitted on the applicant's official letterhead, along with the Statement of Interest in Section 8 and documentary evidence against the eligibility criteria in Section 3.)

Name of Organization / Consortium Lead	
Legal Status (Company / LLP / Partnership Firm)	
Date of Incorporation / Registration	
Registered Office Address	
PAN	
GSTIN	
Annual Turnover — Last 3 Financial Years (INR Cr.)	
Relevant experience in years in manufacturing products in the field of Medical Equipment / RF Engineering / Electronics / Software / Mechanical & Heavy Engineering / Medical system integration, commissioning and maintenance.	
Name & Designation of Authorized Representative	
Contact Number	
Email Address	

Declaration

We confirm that the information furnished above and in the accompanying documents is true and correct to the best of our knowledge, and we agree to be bound by the terms and conditions of this EOI in the event of shortlisting.

Signature of Authorized Representative
Name, Designation & Company Seal