



Ministry of Electronics and
Information Technology
Government of India



**VIRTUAL SUMMIT
WITH INDUSTRY / STARTUPS**

ON

**INDIGENOUS MAGNETIC RESONANCE
IMAGING (IMRI) - A NATIONAL MISSION**

Swadeshi Chumbakiya Anunaad Chitran Ek Rashtriya Abhiyaan
(SCAN - ERA)

December 04th, 2020 at 10:00 AM

Society for Applied Microwave Electronics Engineering & Research,
Ministry of Electronics & Information Technology
Government of India



Healthcare is one of the key focus area of Government and a sustained R&D programme is essential for the development of indigenous technology. Therefore, under the Medical Electronics and Health Informatics Programme, the Government encourages the businesses, R&D institutions and academia to use innovation and new technology to develop new systems as well as to bring down costs of technology and make it more accessible. Ministry of Electronics and IT has sponsored many R&D projects in the area of Medical Electronics & Health Informatics which inter-alia includes development of 1.5 Tesla MRI system. MeitY has undertaken the IMRI project with the objective to design and develop 1.5 Tesla MRI scanner, implemented at SAMEER Mumbai, CDAC-Kolkata, CDAC-Thiruvananthapuram, IUAC New Delhi and DSI-MIRC, Bangalore. SAMEER Mumbai is nodal agency for IMRI and has research collaboration with reputed International Institutes working in MR domain such as University of Minnesota, University of Freiburg (Germany), Columbia | Zuckerman Institute (New York) as well as top hospitals such as Massachusetts General Hospital, Nanavati Hospital (Mumbai), Fortis Memorial Research Institute (Gurugram), Sree Chitra Tirunal Institute for Medical Sciences and Technology (Thiruvananthapuram), Tata Medical Center (Kolkata).

Under the IMRI project, 16 kW RF Amplifier, RF Coils, Couch, Spectrometer, Pulse Sequence, Softwares – Image visualization and construction etc have been designed, developed and tested. Indigenous magnet being developed under the project is expected to be ready by end of this year and the same will be integrated with sub-systems to achieve the objective of Indigenous MRI by 2021. The Project team has received ethical clearances for animal trials; it is expected to begin very soon.

The proposed industry interaction is organised to seek the support and interest of industry in taking technology forward to make it commercially available in India. The initiative is expected to improve affordable healthcare access in India and have potential to generate jobs with indigenization of technology.

TIME	SESSION	SPEAKER
10:00 AM - 10:15 AM	Welcome Address and IMRI program - SAMEER vision	Dr. Sulabha Ranade DG, SAMEER
10:15 AM - 10:30 AM	Inaugural Note – IMRI – A step towards “Atma Nirbhar Bharat”	Dr. Arvind Kumar Group Coordinator, R&D Electronics, MeitY
10:30 AM - 10:45 AM	Keynote Address –Driving Indigenous Medical Technologies	Dr. N. R. Jagannathan (Chairman NSC) FNA, FASc, FNASc, FAMS, FISC, FISMRM (USA) Professor of Eminence of Radiology, Chettinad Academy of Research & Education, Kelambakkam, TN Former Professor & Head, Dept. of NMR & MRI Facility, AIIMS Delhi
10:45 AM - 11:00 AM	Journey with Indian MRI Project	Prof. V. M. Gadre (Chairman TRAC), IIT Bombay
11:00 AM - 11:15 AM	Role of MRI in imaging stroke and brain tumours: An update to our journey so far	Dr. D. P. Patkar (Member NSC & TRAC) President, Indian Radiological & Imaging Association and Director & Head Imaging, Nanavati Super specialty Hospital
11:15 AM - 11:30 AM	MRI-Standards, Prototyping and Production	Dr. Jitendar Sharma MD & CEO AMTZ
11:30 AM - 11:45 AM	Conduction Cooled Superconducting Magnet for MRI	Dr. Sanjay Malhotra, Outstanding Scientist, DAE HoD, EA & Instrumentation Division, & ADS Target Development section, BARC
11:45AM – 12:15 PM	Indian MRI Mission, Achievement & Way forward	Shri. Rajesh Harsh Chief Investigator, Indian MRI Project
12:15 PM - 01:00 PM	Panel discussion & Industry Interaction	
01:00 PM - 01.10 PM	Concluding Remarks & Vote of Thanks	Mrs. Sunita Verma Sci G & HoD R&D MeitY



Dr. Arvind Kumar
*IMRI - A step towards
"Atma Nirbhar Bharat"*



Dr. N. R. Jagannathan
*Driving Indigenous
Medical Technologies*



Dr. Sulabha Ranade
*IMRI Program -
SAMEER Vision*



Dr. D. P. Patkar
*Role of MRI in Imaging Stroke &
Brain Tumour: An update to our
Journey so far*



Prof. V. M Gadre
*Journey with Indian
MRI Project*



Dr. Jitendar Sharma
*MRI-Standards, Prototyping
and Production*



Rajesh Harsh
*Indian MRI Mission,
Achivement & Way forward*



Dr. Sanjay Malhotra
*Conduction Cooled
Superconducting Magnet for MRI*

**To register, please visit -
<https://imrisummit.sameer.gov.in>**

To engage with IMRI Mission, Contact -

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