IIT KANPUR

INCUBATION AND INNOVATION
IIT KANPUR

STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR

MedTech

Brochure

Startup Incubation & Innovation Centre **IIT Kanpur**

www.siicincubator.com

STARTUP INCUBATION AND INNOVATION CENTRE IIT KANPUR

ABOUT US:

SIIC, IIT Kanpur came into existence when in 2000 SIDBI approached IIT Kanpur to form an Incubation centre. The idea was to deepen the entrepreneurship and incubation culture of the institute. SIIC is a startup for startups that supports every budding startup in its growth journey. Our network of experienced academicians, founders, mentors, and team members aim to mold, shape, and provide the right opportunities to young talent with technological goals, investors, and mentor pool.

Mission

The mission of MedTech vertical of SIIC is to foster innovation-driven R&D by creating a supportive environment and encouraging interdisciplinary collaboration. It aims to translate scientific research into commercially viable MedTech products using state-of-the-art infrastructure. The mission also includes promoting skill development through comprehensive training programs and partnerships with industry experts

Vision

We envision ourselves as the torch-bearer of tomorrow's technologically adept healthcare system free from today's challanges and limitations. We, at MedTech IITK aim to be a national leader in fostering and translating cutting-edge medical technology innovations into impactful healthcare solutions, thereby enhancing the quality of life and setting new benchmarks in the MedTech industry.

MEDTECH
Offerings in brief

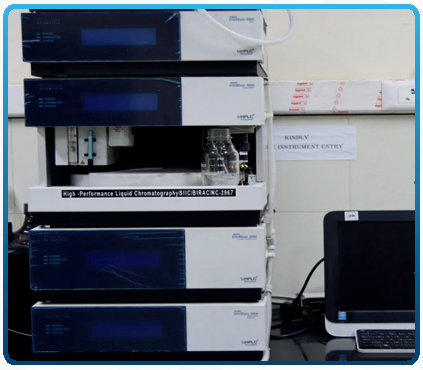
- State-of-the art instruments for rapid prototyping
- Advanced wet-lab facilities and equipments
- Technical guidance from renowned Biomedical scientists at IITK
- Access to a vast mentor pool specialising in healthcare industry
- Excellent networking opportunity with other healthtech startups & investors
- Dedicated office space for incubated startups
- Support in regulatory compliance and clinical validation

INCUBATED STARTUPS

STATE OF ART
MEDTECH INFRASTRUCTURE

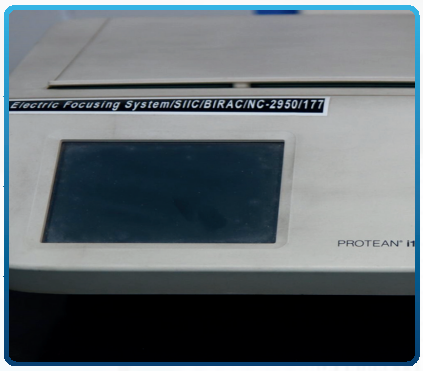
Biosafety Cabinet for Mammalian cell Culture

This Thermo Scientific 1300 series A2 is a Class II laboratory equipment that provides a safe and controlled environment for working with mammalian cells.



High-Performance Liquid Chromatography System (HPLC)

High-performance liquid chromatography (HPLC) is a highly effective analytical technique employed to isolate, identify, and quantify diverse sample constituents such as small molecules, proteins, and polymers.

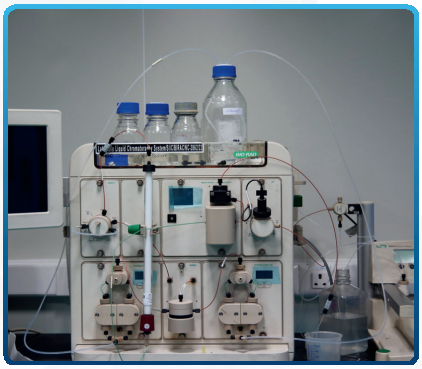


Iso-electric Focussing System

The Bio-Rad Protean i12 IEF System efficiently separates proteins based on their isoelectric points. With its 12-gel capacity, it offers high-resolution and reproducible results, making it suitable for protein purification, characterization, and analysis.

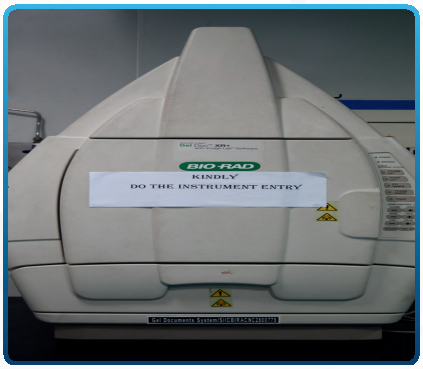
Elisa reader

The Bio-Rad iMark Microplate Absorbance Reader is a highly versatile and dependable microplate reader, designed for enzyme-linked immunosorbent assays (ELISAs) as well as other colorimetric assays. Offering a broad range of wavelengths, speedy read speeds, and heightened sensitivity, it is well-suited for various applications.



Fast Protein Liquid Chromatography (FPLC) System

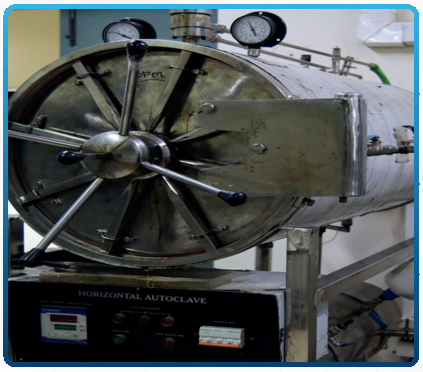
The Bio-Rad NGC Chromatographic System is a highly versatile and efficient liquid chromatography (HPLC) system custom-tailored for protein purification and analysis. Its modular design provides a wide array of configurations, ensuring that it can be used in various applications.



BioRad Gel Document System

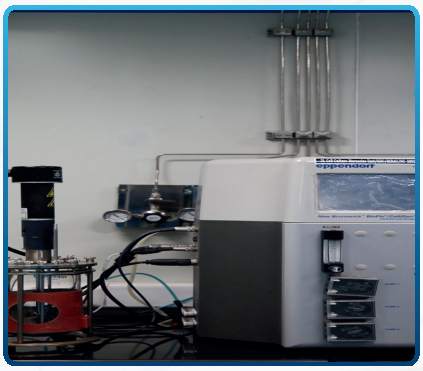
The BioRad GelDoc XR+ is a state-of-the-art gel documentation system that combines high-resolution imaging with powerful analysis software.

STATE OF ART
MEDTECH INFRASTRUCTURE



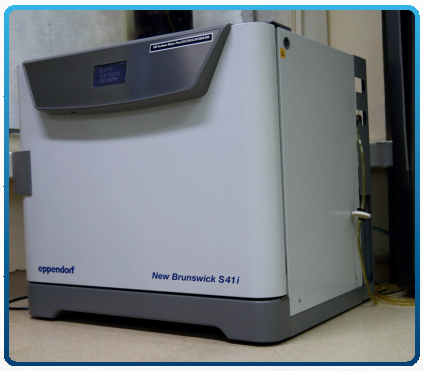
Horizontal Cylindrical Autoclave (220 L)

The horizontal cylindrical autoclave is a large-capacity sterilisation device designed to eliminate microorganisms and sterilise various materials, including glassware, metal instruments, plastics, and culture media. It also includes safety features such as interlocks, pressure relief valves, and automatic shut-off mechanisms to prevent accidents and maintain safe operation.



Small Scale Fermentor

The Eppendorf New Brunswick BioFlo/CellGen 115 fermentor is a benchtop bioreactor designed for microbial and cell culture applications. It features a compact design with a 15-liter working volume, making it suitable for both small-scale research and pilot studies.



New Brunswick S41i CO2 incubator shake

A cell culture incubator is a laboratory equipment designed to provide a controlled environment for growing and maintaining cell cultures. It maintains optimal conditions such as temperature, humidity, and gas composition to support the growth and proliferation of cells. The Eppendorf New Brunswick S41i CO2 incubator shaker combines precise control of temperature and CO2 levels with gentle shaking action .

Inverted microscope with camera

The inverted microscope with a camera is a specialised microscope designed to observe specimens from below. It is used to study live cells and organisms in their natural state. This microscope facilitates quick observation of mammals. Additionally, the camera attachment enables the capture of high-resolution images and videos, allowing for detailed analysis and documentation of the observed specimens.

DMC 63V Deckel MAHO

CNC milling is controlled by a central computer that has been integrated with the modelling environment. Machining needs are met with a complete selection of cutting patterns that include highly automated roughing and finishing approaches as well as curve and edge based machining. Deleon, Mastorcam software is used to generate the CNC code for complex profiles and then transferred to the machine controller.

CNC Lathe- CTX GILDMEISTER TURNING CENTER

CNC turning is controlled by a central computer that has been integrated with the modelling environment. Machining needs are met with a complete selection of cutting patterns that include highly automated roughing and finishing approaches as well as curve and edge based machining. Delcam. Mastercam software Is used to generate the CNC code for complicated profiles and then transferred to the machine controller.

STATE OF ART
MEDTECH INFRASTRUCTURE

The Markforged Sinter-2

It is a desktop metal 3D printer that uses a powder bed fusion process to create high-quality metal parts. It is designed for use by engineers, designers, and manufacturers who need to produce complex metal parts quickly and affordably. The Sinter-2 is capable of printing a wide range of metals, including stainless steel, aluminium, and titanium.

The SIL Accucut 1212

The SIL Accucut 1212 is a precision CNC laser cutter for various materials. It has a 1200 x 600 mm cutting area, 250 W laser power, and a 2.5 m/min cutting speed. It features closed-loop servo control, automatic focus control, and smoke/dust extraction. It's compatible with CAD/CAM software for importing complex designs.

The Emco Concept Mill 105

The Emco Concept Mill 105 is a compact CNC milling machine for education and hobbyists. It has a rigid frame, precise T-slots, and a powerful spindle motor. The machine can handle various materials and is compatible with a variety of tooling. It's easy to operate and comes with user-friendly software for creating and executing machining programs.

The FEI Titan G2 60-300

The FEI Titan G2 60-300 is an advanced scanning transmission electron microscope (STEM/TEM) designed for atomic-level characterization and chemical analysis of various materials and nanostructures. It features a high-brightness Schottky-field emission electron source, a high-resolution Gatan Imaging Filter (GIF), and X-ray energy dispersive spectroscopy (EDS) for high spatial resolution elemental and chemical analysis

LPKF plating unit

The LPKF S4 machine is a high-precision laser system designed for a wide range of micromachining applications, including cutting, structuring, and drilling. It features a compact and modular design, making it easy to integrate into existing production lines. The LPKF S4 machine is equipped with a high-power laser source and advanced optics, enabling precise and repeatable processing metals, ceramics, and polymers.

100kN BiSS Universal Testing Machine

The 100kN BiSS Universal Testing Machine, with maximum load capacity of 100kN and a resolution of 0.5N, is a valuable tool for medical device manufacturers and researchers, as it enables them to evaluate the mechanical properties of their products and ensure compliance with industry standards.

LENEK TECHNOLOGIES

Lenek is developing an affordable, and AI-enabled handheld x-ray device. The aim is to support the country's fight against TB, by providing a lightweight and battery-powered tool that can be taken from home to home for TB detection.

SIIC join hands with Boehringer Ingelheim. Lenek Technologies aims to eradicate Tuberculosis (TB) by improving the screening process through its innovative handheld X-ray device, which has the potential to bring about a significant change in TB screening in areas where resources are limited.

SWASA

E-SPIN NANOTECH

E-Spin Nanotech Pvt Ltd, a spin off of IIT Kanpur, was founded in 2010 with an aim to tap on the immense potential of nanotechnology for commercial applications & societal benefits. Spearheaded by a team of nanotechnology experts and researchers, we are now established as a global leader in the field of nanofiber membrane technology with advanced manufacturing facilities.


Swasa by E-spin Nanotech | INDIA'S NATIONAL N95 MASK Developed @ IIT KANPUR

'Swasa' N95 mask worn by PM Modi at Bhoomi Pujan sees high demand

The IIT- Kanpur backed start-up -- Espin Nanotech Private Limited -- is currently producing around 30,000 face masks a day

Published: 14th August 2020 09:46 PM | Last Updated: 14th August 2020 09:46 PM

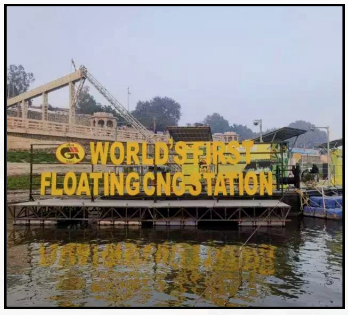
Prime Minister Narendra Modi performs Bhoomi Pujan at Ram Janmabhoomi Mandir, in Ayodhya (File

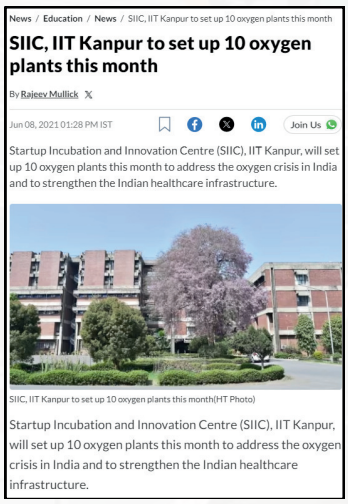
ACQUAFRONT

WORLD FIRST FLOATING CNG STATION IN VARANASI

ACQUAFRONT INFRASTRUCTURE

Integrating reinforced-cement concrete (RCC) based floats with solar cells and electric-powered boats using Steel Integrated Floating Jelly (SIFJ) technology to avoid the impact of using plastic floats and also to reduce the noise and air pollution caused by diesel boats.





News / Education / News / SIIC, IIT Kanpur to set up 10 oxygen plants this month

SIIC, IIT Kanpur to set up 10 oxygen plants this month

By Rajeev Mullick

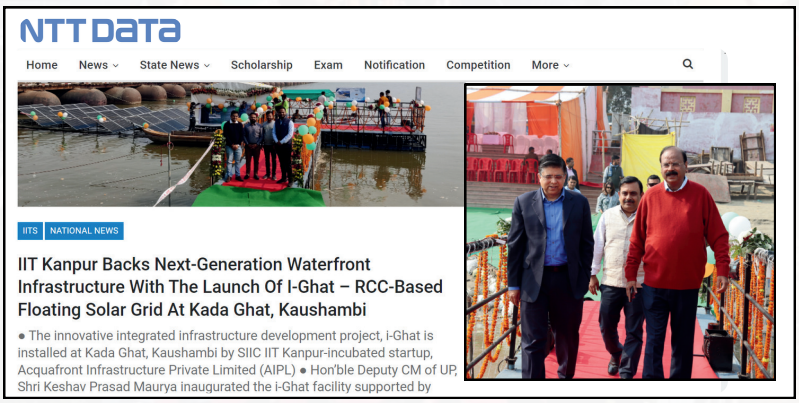
Jun 08, 2021 01:28 PM IST

Join Us

Startup Incubation and Innovation Centre (SIIC), IIT Kanpur, will set up 10 oxygen plants this month to address the oxygen crisis in India and to strengthen the Indian healthcare infrastructure.

SIIC, IIT Kanpur to set up 10 oxygen plants this month(HT Photo)

Startup Incubation and Innovation Centre (SIIC), IIT Kanpur, will set up 10 oxygen plants this month to address the oxygen crisis in India and to strengthen the Indian healthcare infrastructure.



NTT DATA

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IITS NATIONAL NEWS

IIT Kanpur Backs Next-Generation Waterfront Infrastructure With The Launch Of I-Ghat – RCC-Based Floating Solar Grid At Kada Ghat, Kaushambi

• The innovative integrated infrastructure development project, i-Ghat is installed at Kada Ghat, Kaushambi by SIIC IIT Kanpur-incubated startup, Acquafront Infrastructure Private Limited (AIPL) • Hon'ble Deputy CM of UP, Shri Keshav Prasad Maurya inaugurated the i-Ghat facility supported by

CURADEV
Let science do the talking

CURADEV

Curadev Pharma Private Limited was founded in 2010 by a team of professionals from the pharmaceutical and biotech sectors with the mission to enhance the quality of human life and increase its expectancy by accelerating the discovery and delivery of new drugs. Through a decade of mining Indian scientific talent, Curadev has attracted an elite team of scientific investigators fully capable of handling the breadth of activities involved in drug discovery and delivery.

Curadev Pharma announces the formation of its Clinical Advisory Group

Curadev Pharma announces the formation of its Clinical Advisory Group

ANI | Updated: Jan 04, 2023 12:07 IST

Noida (Uttar Pradesh) [India], January 4 (ANI/PRNewswire): Curadev Pharma has created a Clinical Advisory Group (CAG) comprising eminent oncologists to provide guidance in the design and execution of immune-oncology clinical trials with CRD3874, its lead non-nucleoside, allosteric small molecule STING agonist. Curadev recently received permission from the US FDA to commence FIH trials with systemically administered CRD3874 in patients with advanced/metastatic solid cancers.

Roche, Curadev Collaborate to Develop Cancer Immunotherapeutic in $555M+ Deal

April 20, 2015

New Delhi-based Curadev Pharma inked an exclusive license agreement with Roche for the development and commercialization of IDO1 and TDO inhibitors in a deal that could net the Indian company more than $555 million. The agreement covers the development of the lead preclinical immune tolerance inhibitor and a collaboration with Roche's research and early development organization to further extend Curadev's findings.

News | March 24, 2020

Bayer signs drug development and licensing deal with Curadev

German healthcare company Bayer has entered into a research collaboration and licence agreement with India-based drug discovery firm Curadev.

Bayer partnered Curadev to discover drug candidates across various inflammatory disease indications. Credit: © Bayer AG.

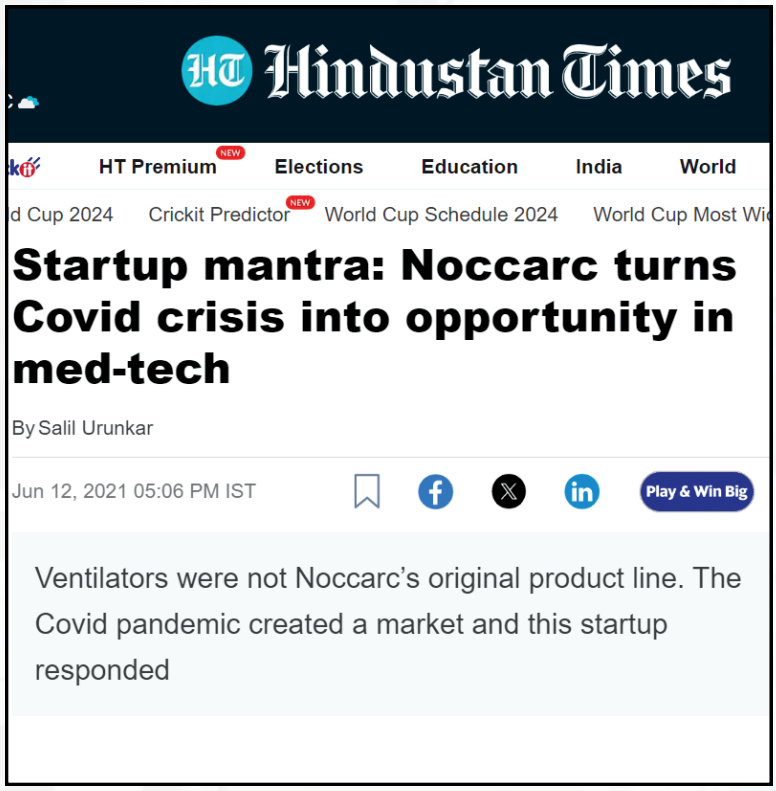
German healthcare company Bayer has entered into a research collaboration and licence agreement with India-based drug discovery firm Curadev.

The deal is for the use of Curadev's small molecule Stimulator of Interferon Genes (STING) antagonist programme to identify new drug candidates across lung, cardiovascular and other inflammatory disease indications.

noccarc

NOCCARC

Noccarc stands proudly at the forefront of Medical Technology innovation in India. Our journey, deeply entrenched in a commitment to improving healthcare outcomes, showcases our passion for excellence and vision for the future. Our core mission revolves around merging advanced technology seamlessly with healthcare, ensuring solutions that are not only cutting-edge but also reliable and accessible. With offerings that push the envelope, Noccarc doesn't just aim to shape the future of medical care in India — we envision elevating standards globally.



Hindustan Times

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Startup mantra: Noccarc turns Covid crisis into opportunity in med-tech

By Salil Urunkar

Jun 12, 2021 05:06 PM IST

Play & Win Big

Ventilators were not Noccarc's original product line. The Covid pandemic created a market and this startup responded

THE TIMES OF INDIA

Business | Budget 2024 | Financial Literacy | India Business | International Business | Markets | Videos

NEWS / BUSINESS NEWS / Noccarc Aims 10-Fold Revenue Growth In Current ...

TRENDING | India Stock Value | Infosys | Pan India Fraud | Retirement Planning | SIP Ca

THIS STORY IS FROM JULY 27, 2021

Noccarc aims 10-fold revenue growth in current fiscal

PTI / Jul 27, 2021, 15:40 IST

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Noccarc Robotics receives Rs 3.94 Cr from DST to commercialise digital ICU ventilator

09 August 2023 | News

Post | Share 0 | Share

IIT Kanpur-incubated startup receives TDB-DST funding

Access to Excellent Technical Mentors at IIT Kanpur

Gain technical insights and expertise from distinguished professors of IIT Kanpur in exhaustive areas of Medical technologies

Focus Areas

- Telemedicine and Robotics
- AI in Healthcare
- Therapeutics
- Materials in Medicine
- Metabolic Disorders
- Point of care diagnosis
- Cardiovascular and pulmonary disease research
- Non-invasive imaging & Diagnostics
- Neuroscience,neurotechnology and mental health
- Cancer Research
- Tropical & Infectious Diseases

"If you look at history, innovation doesn't come just from giving people incentives; it comes from creating environments where their ideas can connect"

Access to Expertise
of our collaborators

Get an oppurtunity to work with our esteemed collaborators

Uttar Pradesh University of Medical Science, Lucknow

Regional Centre For Biotechnology

Uttarakhand Biotechnology Council

KD Medical College

KD Medical College

Government Institute of Medical Sciences (GIMS), Noida

> *Alone we can do so little; together we can do so much.*
> *— Helen Keller*

Testimonials

ANKIT AGARWAL
CEO, Phool

SIIC IIT-K has helped Phool.co achieve the highest possible growth since incubation. Through the ecosystem, we have been able to recruit quality talent from the IIT-K campus, leverage dedicated infrastructure, and receive advocacy in every possible fora.

ARUNAVA KARMAKAR
CEO, Invariance Automation

SIIC, has given us the platform to build our identity as a start-up.Dr Amitabha & his team pushed us in the right direction whenever we needed any insight, financial help, or any source of information. Associating with SIIC acted as a motivation & an inspiration to grow & flourish in our domain.

NIKKY KUMAR JHA
CEO, Saptkrishi

The highly constructive team at SIIC promotes the holistic development of their incubated startups. Particularly in our case Saptkrishi Scientific Pvt Ltd., the team gave us access to technical support within the IIT-Kanpur Ecosystem in addition to the business mentoring and investor connections.

ECO-SYSTEM

ENABLERS

CSR

HDFC BANK
ICICI Securities
Godrej
infoedge
CUGL Central U.P. Gas Limited
MCX METAL & ENERGY Trade with Trust
citi
CAPRI GLOBAL CAPITAL LIMITED
आर ई सी REC
ETS-LINDGREN An ESCO Technologies Company
standard chartered
The Consumer Goods FORUM
NTT DATA
Ansys
DANA
GREEN GAS LIMITED
NATIONAL INFORMATICS CENTRE SERVICES INCORPORATED
SKODA | VOLKSWAGEN
Boehringer Ingelheim
SAFEXPRESS Distribution Redefined
PREMJI INVEST

FUNDING & MONITORING

DSIR Department of Scientific and Industrial Research
Department of Biotechnology Ministry of Science & Technology Government of India
Ministry of Electronics and Information Technology Government of India
Ministry of Housing and Urban Affairs Government of India
बाइरैक birac Biotechnology Industry Research Assistance Council
Government of Uttar Pradesh
START INUP A Government of UP Initiative
सत्यमेव जयते Department of Science and Technology Ministry of Science and Technology Government of India
iDEX Innovations for Defence Excellence
SIDAC
MeitY Startup Hub
icmr INDIAN COUNCIL OF MEDICAL RESEARCH Serving the nation since 1911
NIDHI by DST Entrepreneur-in-Residence Powered by Venture Center
SBI
sidbi

KNOWLEDGE

futureskills prime A MeitY - NASSCOM Digital Skilling Initiative
DWIH New Delhi Land of Ideas

INDUSTRY

FICCI
AIMED Encouraging Responsible Manufacturing Association of Indian Medical Device Industry

AI ENABLEMENT

PELTARION

SERVICE

aws
exotel
freshworks

CLINICAL

आत्मना सर्गो जितः
AIG HOSPITALS
NH Narayana Health Health for all. All for health.
Ruby Hall Clinic

INTERNATIONAL

iit STARTUPS
Singapore Indian Chamber of Commerce & Industry
TORONTO BUSINESS DEVELOPMENT CENTRE

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STARTUP
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INNOVATION CENTRE
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SCAN QR TO KNOW OUR STARTUPS

GET IN TOUCH

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