

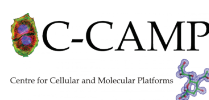
C-CAMP INDIGENISATION OF DIAGNOSTICS PROGRAMME REPORT 2021

On a mission to enable one million indigenous tests per day for COVID-19 in India

A step towards Atmanirbhar Bharat for Molecular Diagnostics



HOST ORGANISATION



SUPPORTED BY



FUNDED BY



COVID-19 PANDEMIC AND INDIGENISATION OF DIAGNOSTICS

In March 2020, as the world was beginning to battle COVID-19, India grappled with its preparedness to manage the pandemic. There was 80% dependence on global markets for diagnostic kits, their components, and reagents. It was imperative that the country's molecular diagnostics community step up to manufacture affordable, accessible, and high-quality indigenous diagnostic kits. In the early days of the pandemic, the cost of each RT-PCR test was about INR 5000. This was not affordable, hence not accessible to a majority of population in a scenario where controlling the pandemic was highly dependent on test-track-isolate approach.

As the virus continued to mutate and spread across the country, more than 30 million cases were reported in India alone till June 2021. In this context, building a support system for indigenous diagnostic manufacturers became a vital step towards developing self-reliance in a range of diagnostic kits. This would facilitate identification and testing of new variants, assuring safety in workplaces.

The CCAMP-InDx programme was conceptualised as a response to the need to support Indian diagnostic manufacturers. The programme was flagged off to establish a strong supply chain network of Indian MSMEs and work side by side with them to ensure that international standards of quality were met and capacities scaled up. The goal was to reach a stage where these manufacturers would be able to produce, supply, and execute one million indigenous diagnostic kits per day.

This programme is funded by The Rockefeller Foundation and executed by the Centre for Cellular and Molecular Platforms (C-CAMP), Bangalore, India, and constitutes a governance team offering strategic directions, a programme management unit with a functional team with operational responsibilities, and the Centres of Excellence (CoEs) for scientific and technical support.

With the onset of the pandemic in India, the first phase was dominated by multiple challenges responsible for falling short of meeting the demands for COVID testing across the country. The four dimensions of the key challenges outlined below were the primary focus areas for the programme.



Cost

Diagnostic kits for SARS CoV2 detection were exorbitant, making them unaffordable for general public. This was largely due to high dependency on global imports as indigenous manufacturers did not have the requisite capacities.



Access

India, with its vast hinterland and population, had severe challenges in offering access to COVID testing. RT-PCR machines and laboratory infrastructure were in short supply when the pandemic started. Increasing capacities for RT-PCR-based tests and creating access was paramount, but alternate point-of-care (POC) testing was also the need of the hour.



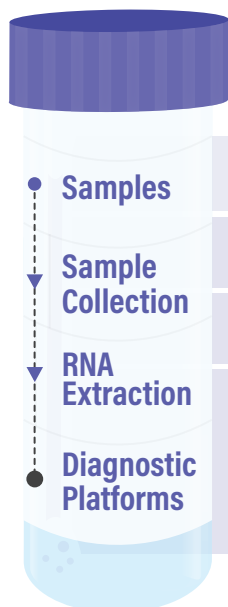
Quality

High demand in the country led to an onslaught of imported kits from multiple countries offering competitive pricing. Meeting the testing needs came with major quality issues. As unbroken cold chains were far and few in between, temperature surges would impact the quality of the testing kits, increasing the risk of false negatives.



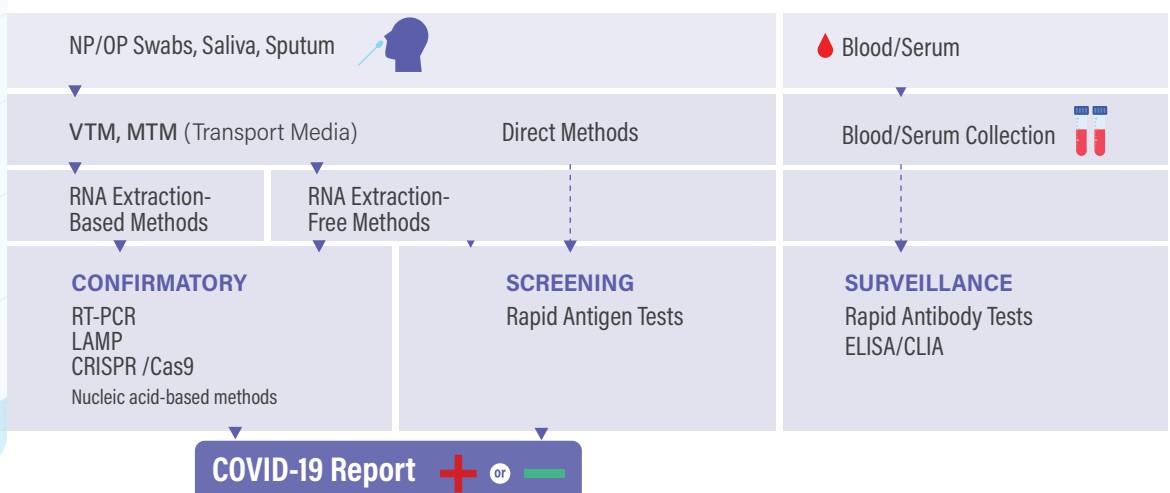
Availability

Diagnostic kits were in high demand due to the pandemic. Supply chain issues arose due to an erratic supply of imported kits, compounded by quality challenges. Hence, the unequivocal call for the programme was to support indigenous manufacturers to build their capacities to quality to meet the countrywide demands.



TEST, TRACK, ISOLATE. BUT HOW?

The current cohort of COVID-19 tests include:



GAPS IDENTIFIED AND ADDRESSED BY CCAMP-InDx

High-quality components and reagents for molecular diagnostic kits that Indian manufacturers depend on the global markets for:

RT-PCR, LAMP - Master mixes, dNTPs, Primers/Probes, Amidites

CRISPR/Cas9 - Paper strips, Enzymes

Rapid Antigen/Antibody Test - LFA strips, Antigens/Antibodies

Additional focus areas - Sample collection devices, RNA Extraction-free methods, alternate sample formats like saliva

CCAMP-InDx is helping fill these gaps through:

1) Indigenisation

2) Optimisation

3) Commercialisation

4) Scale-up

CCAMP-InDx: VOCAL FOR LOCAL

In building the country's self-reliance in molecular diagnostics, CCAMP-InDx is at the forefront uniting local manufacturers, service providers, regulators, government agencies, and, most importantly, research institutions to leverage knowledge and expertise in building quality and capacity for molecular diagnostics.

Impediments to indigenous manufacturing are being removed. Collaborations across the country are being nurtured and Indian companies are beginning to make a global impact.

BOTTLENECKS



Marketplace

Lack of a consortium to bring together all stakeholders in Indian diagnostic space to interact, collaborate, and innovate



Supply chain

Gaps in supply chain for reagents and components, scale-up, and partnering options



Service providers

Absence of an independent agency to provide technical support for quality testing and process development

CCAMP-InDx is addressing these needs and problems with a rigorously formulated three-pronged approach to further the mission of manufacturing globally competitive products.

THREE-PRONGED CCAMP-InDx APPROACH

1

DIGITAL MARKETPLACE

- Establishing supply chain network of indigenous diagnostic ecosystem
- Facilitating negotiation, buying, and selling of products and services



2

OUTREACH

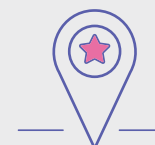
- Reaching out to and onboarding diagnostics manufacturers and service providers into the programme
- Facilitating networking through discussions and round table meetings



3

CENTRES OF EXCELLENCE

- Bringing together subject matter expertise, academic excellence, and state-of-the-art cutting-edge technologies
- Offering scientific and technical support to enhance quality, manufacturing capacities, and clinical validations



GOAL

Enable Indian manufacturers to develop diagnostic kits that would be used in executing 1 million COVID-19 tests per day

CCAMP-InDx DIGITAL PLATFORM

Connecting everyone within
the diagnostic ecosystem

What is CCAMP-InDx Digital Platform?

CCAMP-InDx Digital Platform is an online marketplace for indigenous diagnostic kits, reagents, ancillary products, and supporting services needed by indigenous companies. TCS has developed this platform pro bono.

WHAT CAN IT DO?



Create an integrated
supply chain



Identify needs and
challenges



Present options for
indigenous ingredients



Provide visibility to
capacities



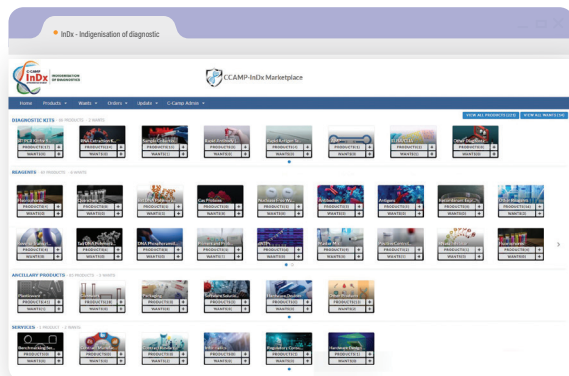
Access to new
technologies

CCAMP-InDx Ecosystem



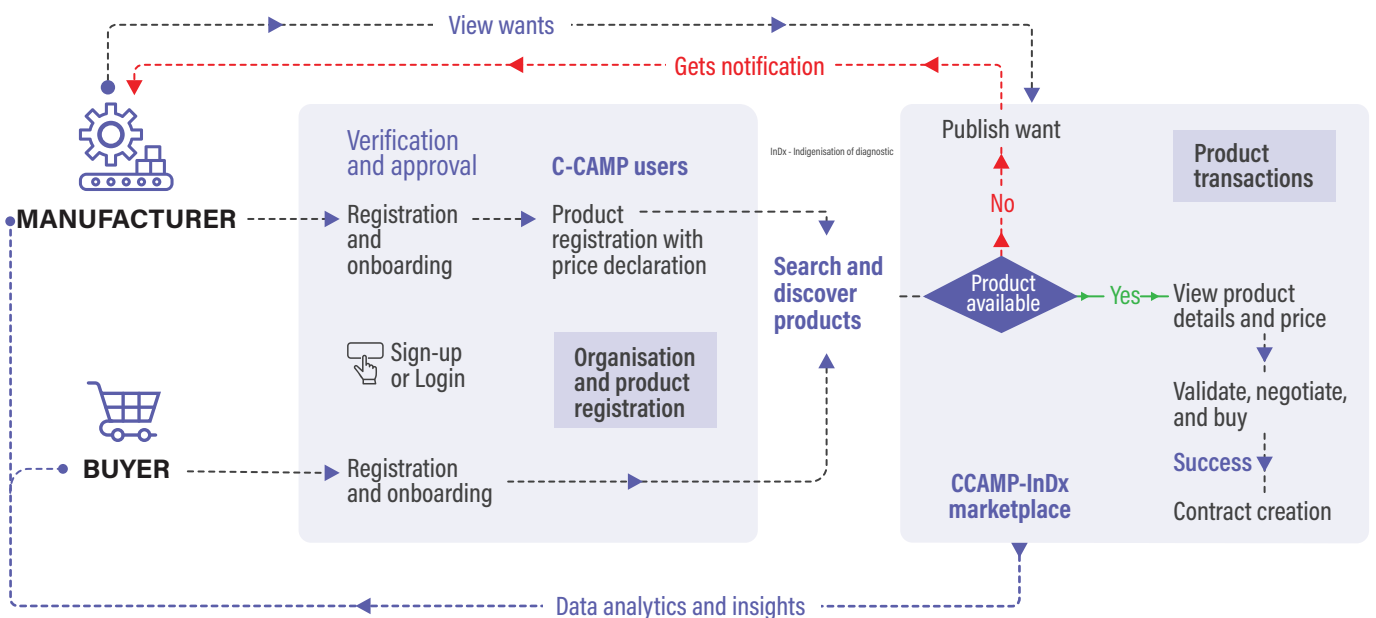
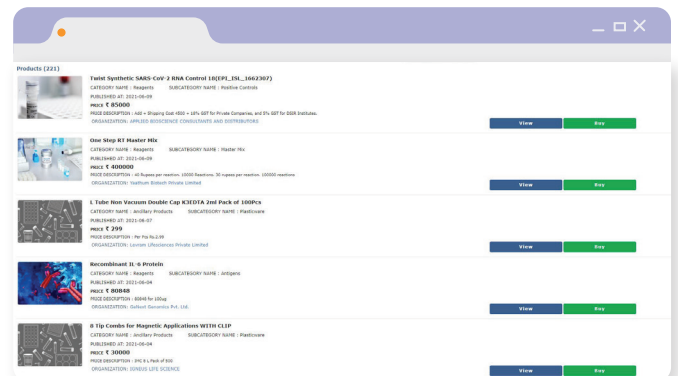
HOW DOES IT WORK?

View of the Homepage



Product/Service Listing

Powered by
tcs TATA
CONSULTANCY
SERVICES





UNITED WE STAND, STRIVE, AND SUCCEED

Bringing institutional expertise, world-class infrastructure, and regulatory rigour to every single indigenous manufacturer to drive affordability, accessibility, and global-quality diagnostics in India.

HOW?

CCAMP-InDx assembled a stellar team of subject matter experts from various areas of science and technology. These teams, spread across eight Centres of Excellence, offer their expertise and laboratory capabilities to support manufacturers in ensuring high-quality materials to produce diagnostic kits.

CAPABILITIES OF THE CCAMP-InDx CENTRES OF EXCELLENCE (CoEs)



Enhance the **quality** of indigenously manufactured reagents and components



Support with **clinical** development of diagnostic kits



Offer **scale-up** process technologies for enzymes of diagnostic importance



Evaluate **interchangeability** of reagents and components from indigenous sources



Adopt **best practices** in quality and manufacturing to meet global standards

CCAMP-InDx CoEs



- 1 CoE for Chemistry**
CoE Lead: Prof Seergazhi G. Srivatsan
Performs chemical characterisation and qualification of reagents for development and commercialisation of diagnostic kits



- 2 CoE for Clinical Studies**
CoE Lead: Prof Colin Jamora
Conducts clinical studies for the development and commercialisation of diagnostic kits



- 3 CoE for Antigen/Antibody**
CoE Leads: Dr Nalam Madhusudhana Rao, Dr Feroz Musthafa
Design and development of high-quality antigen- and antibody-based diagnostics



- 4 CoE for Biologics**
CoE Lead: Dr Saravanan Palani
Process development for high-quality enzymes and biologics for molecular diagnostics



- 5 CoE for Business Analytics**
CoE Lead: Rashmi (Rohini) Pimpale
Provides business plans for molecular diagnostics enterprises, formulates pricing strategy, and builds economic cases to attract funds



- 6 CoE for Quality**
CoE Lead: Dr Mitali Samaddar
Designs quality control strategy and offers quality testing, interchangeability, analytical validation, and benchmarking studies

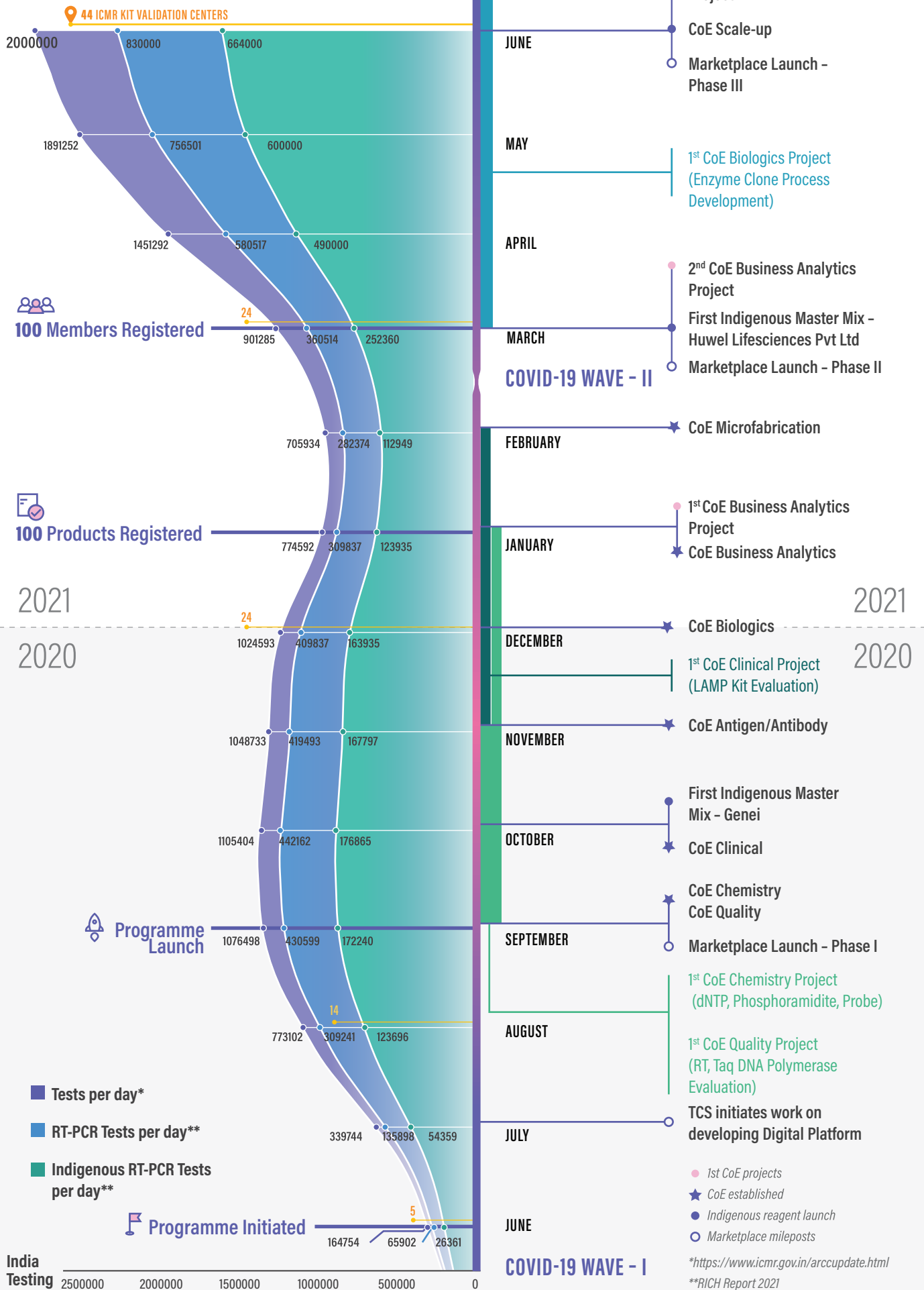


- 7 CoE for Scale-up**
CoE Lead: Dr Vinothkumar Kutti Ragnunath
Scale-up process development for enzymes, antibodies, antigens, and other proteins



- 8 CoE for Informatics**
CoE Lead: Nimisha Gupta (G-KnowMe Consulting)
Strengthens, validates, and integrates informatics solution components developed by InDx stakeholders

THE JOURNEY SO FAR



SMALL CHANGE, BIG IMPACT

CCAMP-InDx has created history as an enabler of change by providing a platform for suppliers, MSMEs, and developers to avail local, indigenous products for the manufacture of RT-PCR and other molecular diagnostic kits. This, in turn, has increased the capacity for daily testing.

CCAMP-InDx PARTNERS

70 diagnostic kit manufacturers
4 academic technology developers
23 reagent manufacturers
30 service providers
15 ancillary products



CCAMP-InDx PORTFOLIO

78 diagnostic kits
73 reagents
92 ancillary products
7 services



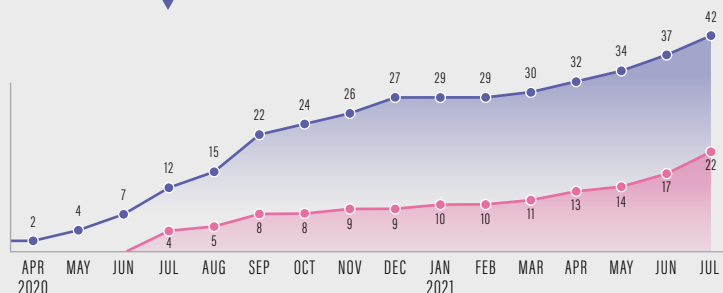
CCAMP-InDx PROJECTS

53 CoE projects, diagnostic kits, master mixes, enzymes, primers/probes, dNTPs, amidites, 13 tech transfers

THE ECOSYSTEM IS GROWING

42 indigenous RT-PCR Kit manufacturers are associated with CCAMP-InDx programme from around 100 diagnostic kit manufacturers in the country.

- Indigenous RT-PCR kit manufacturers
- No of indigenous RT-PCR kit manufacturers partnering with CCAMP-InDx



₹1800
June 2020

₹50
June 2021

Kits price/test **

₹72
June 2020

₹10
June 2021

Primers & Probes
cost/test

PRICE REDUCED

₹125
June 2020

₹15
June 2021

Master Mixes
cost/test

₹700
June 2020

₹400
June 2021

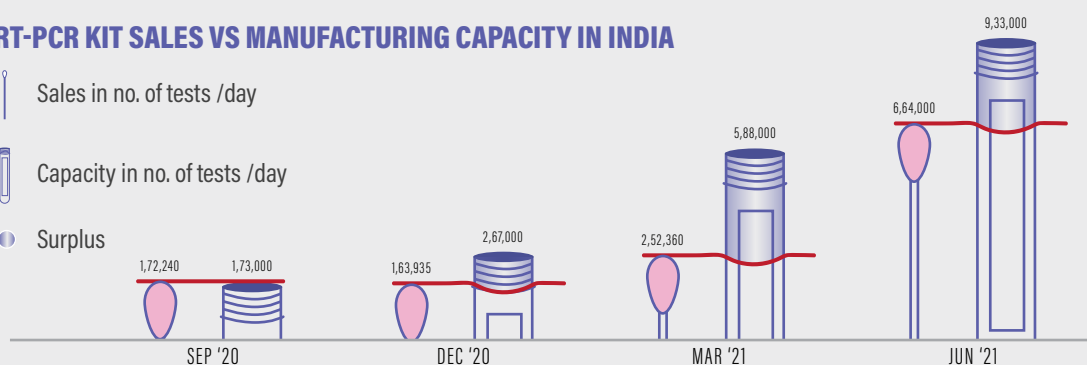
Amidite cost/gm

RT-PCR KIT SALES VS MANUFACTURING CAPACITY IN INDIA

● Sales in no. of tests /day

● Capacity in no. of tests /day

● Surplus



**Avg government procurement price.

BUILDING A SELF-RELIANT DIAGNOSTICS ECOSYSTEM



Mr Hasmukh Rawal
Managing Director
Mylab Discovery Solutions Pvt Ltd



"CCAMP-InDx is a brilliant example of the platform, infrastructure, and network needed to build large-scale, global diagnostics companies from India. The centers of excellence, the digital marketplace, and the network of suppliers and service providers will go a long way in establishing solid foundations for molecular diagnostics in India. We are truly proud to be associated with the effort. More power to CCAMP"



Dr Rachana
Dr Shesheer
Directors
Huwel Lifesciences Pvt Ltd



"CCAMP-InDx is an excellent idea; this idea needs to be extended to all molecular diagnostics platforms. It will help in making India a global hub for diagnostics."



Dr Prabhakar Kulkarni
Co-Founder, Director
NeoDx Biotech Labs Pvt Ltd



"CCAMP-InDx has been a hub for indigenisation and clinical testing for us. We finally have a diagnostics platform in India that will catapult us to global markets."



Mr Harkaran Dhingra
Director
DSS TAKARA Bio India Pvt Ltd



"A truly remarkable effort that brings together so many companies actively working in the diagnostics area. The weekly round table meets are a great opportunity to network, learn, and find partners."



Dr Sudeshna Adak
CEO & Founder
OmiX Research and Diagnostics Laboratories Pvt Ltd



"We developed a novel LAMP-based detection platform for COVID-19 that combines easy-to-use kits with a colorimetric detection device. This reduces both the requirement for skilled manpower and cost."

CCAMP-InDx's support has been essential in the development of our novel LAMP platform and we look forward to their support in ensuring the kits can be manufactured at low cost with indigenisation of its components."



Dr S Chandrashekar
Managing Director
GeNei Laboratories Pvt Ltd



"Genei is working with CCAMP-InDx on the characterisation of enzymes – Taq DNA Polymerase, Reverse Transcriptase, and Bst. We have successfully launched an indigenous master mix with support from CCAMP-InDx and are looking forward to launching a 100% indigenous RT-PCR Kit. The process and performance at InDx are truly of global standards. This is the kind of effort that will help indigenise and globalise Indian diagnostics."



Dr Paidi Yella Reddy
President, CEO
Sapala



"It is our pleasure to be part of Atmanirbhar Bharat. The CCAMP-InDx programme is a great initiative by C-CAMP for promoting indigenous sourcing of materials for diagnostic purposes and we are proud to be a part of it."

The CCAMP-InDx programme has helped in disseminating our capabilities and strengths to the Indian scientific community. It has helped us in supplying key nucleic acid reagents to promote the global cause for indigenous diagnostic kits to meet our country's needs."

BROAD ENGAGEMENT, DEEP IMPACT

125 partners and counting as of May 2021

DIAGNOSTIC KITS: Partnering with developers and manufacturers of diagnostic kits; enhance India's testing capacity





REAGENTS: Spearheading indigenisation of diagnostics by bringing together and supporting manufacturers and developers



ANCILLARY PRODUCTS: Bringing together indigenous solutions and ancillary products



SERVICES: Providing access to services at every stage in development of diagnostics



THE WAY FORWARD

Catalysing sustainable growth for future preparedness

India, with a high prevalence of infectious and chronic diseases, needs to build a strong ecosystem of indigenous diagnostics with a sustainable balance of quality, affordability, and access. Combining the country's prowess in creating scalable, large informatics and digital solutions with the foundation of predictive and preventive diagnostics companies can usher in an era of democratisation of healthcare.

Indigenous molecular diagnostics, an emerging industry in the country, requires sustained scientific and technical support across the product development value chain to catalyze growth and global competitiveness. The CCAMP-InDx programme will continue to play a significant role as outlined here.

- 1** Supporting exploratory research, development, analytical/clinical validations, and commercialization of:
 1. Next generation of COVID-19 diagnostics
 2. SARS CoV2 variant specific tests
 3. Biomarkers in COVID-19 disease management
- 2** Fostering innovative technologies and point-of-care devices to the market
- 3** Evolving assurance testing methods for resuming schools, physical workplaces, and travel
- 4** Envisaging to build a quality framework to ensure harmonisation and consistency of diagnostic kit performance

ENGAGE

Interactive Digital Platform



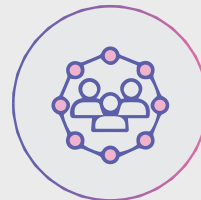
EXCEL

Global Standards



EXPAND

COVID and Beyond



ENDURE

Global Market Reach



CCAMP-InDx is by far the largest effort ever undertaken for advancing the molecular diagnostics industry in India. It has brought about a paradigm shift in this industry by building autonomy in terms of capability and capacity for not only COVID-19 diagnostics but also for mitigating future pandemics.

CCAMP-InDx programme is a firm foundation built to bring affordable and accessible diagnostics across many disease areas. CCAMP-InDx will herald a self-reliant, innovative molecular diagnostic industry in India.



CCAMP-InDx PROGRAM

CCAMP-InDx cohort's Regulatory approved Kits and Reagents

Inviting Govt./Private hospitals and Testing agencies to leverage the capabilities and capacities of this cohort

ICMR-CDSCO Approved RT PCR Kits



*CRISPR Kit



Reagents

Master Mix and Enzymes



BioBharati LifeScience Pvt. Ltd.
Developing Best Products for Quality Research of Significance



Primers and Probes



dNTPs



Phosphoramidites



For inquiries, write to indx-support@ccamp.res.in
CCAMP-InDx Marketplace - <https://indx.ccamp.res.in>
Website - <https://www.ccamp.res.in/indx-indigenous-diagnostics>

Contact Details of CCAMP-InDx Partners

ICMR-CDSCO Approved list of RT PCR Kit Manufacturers

Manufacturer	Point of Contact	Contact Number	Email ID
Achira Labs Pvt. Ltd.	S. Manjunath	8095680010	manjunath@achiralabs.com
Affigenix Biosolutions Pvt. Ltd.	A. Muruganandam	9632481000	anand@affigenix.com
Bhat Biotech India Pvt. Ltd.	Shama bhat	9341257708	bhatbiotech@gmail.com
BioGenomics Ltd.	Ritesh Khandelwal	9820185557	business.development@biogenomics.co.in
Cosara Diagnostics Pvt. Ltd.	Chirag Patel	9898047209	cpatel@cosara.in
DNA Xperts Pvt. Ltd.	Rabia	9354937186	info@dnaxperts.com
Epygen Biotech Pvt. Ltd.	Dinakar Panati	9880722877	dinakar@epigen.com
Genes2Me Pvt. Ltd.	Akhil Gupta	9899062009	contact@genes2me.com
GenePath Diagnostics India Pvt. Ltd.	Kavita Khatod	020-48566661	kavita.khatod@genepathdx.com
Genetix Biotech Asia Pvt. Ltd.	Michelle Vaz	9741283442	michelle@genetixbiotech.com
Himedia Laboratories Pvt. Ltd.	Kavita Balakrishnan	9320136229	k.bala@himedialabs.com
Huwell Lifesciences Pvt. Ltd.	Bhishma Baru	9248037316	bhishma@huwelllifesciences.in
InnoDx Solutions Pvt. Ltd.	Nakul Ranjan	9811705046	nakul@inno-dx.com
Karwa Enterprises Pvt. Ltd.	Subir Dey	7506191437	subir.dey@rdgc.in
Lab-Care Diagnostics (I) Pvt. Ltd.	P. B. Bhatia	9821056409	pbbhatia@labcareagnostics.com
Medsorce Ozone Biomedicals Pvt. Ltd.	Manan Mittal	9810163415	mananmittal@gmail.com
Mylab Discovery Solutions Pvt. Ltd.	Mohit Agarwal	9930375502	mohit@mylabdiscoveryolutions.com
NeoDx Biotech Labs Pvt. Ltd.	Charu Krishnamoorthy	8123499429	enquiry@neodx.in
POCT Services Pvt. Ltd.	Shashi Ranjan	9953354491	shashi.ranjan@pocservices.com
Svashmi Genotech Pvt. Ltd.	Lakshmi Bhaskar	8110413800	lakshmi.b@stellencepharmscience.com
Tata Medical and Diagnostics Ltd.	Gautam Banerjee	9945090454	gautam.banerjee@tatamd.com
TranScience Innovative Technologies Pvt. Ltd.	Thooyavan G	7358097434	thooyavan@transcience.in
Trivitron Healthcare Pvt. Ltd.	Amit Arora	9871007298	amit.arora@trivitron.com
Ubio Biotechnology Systems Pvt. Ltd.	Sumi Sivaraman	9562207770	sumi@ubio.co.in

Reagent Manufacturers

Manufacturer	Point of Contact	Contact Number	Email ID
Aura Biotechnologies Pvt. Ltd.	Pazhani Muthu	8056738421	pazhanimuthu@aurabiotech.com
Biobharati LifeScience Pvt. Ltd.	Arjun Ghosh	9836508080	biobharati@gmail.com
Bioserve Biotechnologies India Pvt. Ltd.	Sunil Bhardwaj	7842288891	rsunil@reprocell.com
Chromous Biotech Pvt. Ltd.	Biswajit Roy	9880042238	biswajit@chromous.com
DSS Takara Bio India Pvt. Ltd.	Karan Sharma	9810036836	karan_sharma@dsstakarabio.com
Edna Biolabs Pvt. Ltd.	Nikhil Kateja	7827925781	info@ednabiolabs.com
GeNei Laboratories Pvt. Ltd.	Annie Jerald	7892209500	techsupport@geneilabs.com
Huwell Lifesciences Pvt. Ltd.,	Bhishma Baru	9248037316	bhishma@huwelllifesciences.in
Innovasynth Technologies (I) Pvt Ltd	Dr Vipul Rana	9881451957	vrana@innovasynth.com
Sapala Organics Pvt. Ltd.	Madika Chandrakanth	8978010123	chandra@sapalaorganics.com
Sisco Research Laboratories Pvt. Ltd.	Akash Agarwal	9821225772	marketing@srchem.com
Swagene Pvt. Ltd.	Sooraj R	8939414717	care@swagene.com
Trivitron Healthcare Pvt. Ltd.	Amit Arora	9871007298	amit.arora@trivitron.com
VNIR Biotechnologies Pvt. Ltd.	Jagadeesh Daler	7972669852	jagadeesh@vnir.life
Yaathum Biotech Pvt. Ltd.	Arivan Thiruvalluvar	9566288369	ask@yaathumbiotech.com

Find them and more on the CCAMP-InDx Markeplace:
<https://indx.ccamp.res.in>



CCAMP-InDx PROGRAM

CCAMP-InDx cohort's Regulatory Approved Kits

Inviting Govt./Private hospitals and Testing agencies to leverage the capabilities and capacities of this cohort

ICMR-CDSCO Approved Rapid Antigen Kits



AGAPPE
YOUR BEST PARTNER IN DIAGNOSTICS



PATHKITS



Premier Medical Corporation Private Limited



ICMR-CDSCO Approved Rapid Antibody Kits



Premier Medical Corporation Private Limited



ICMR-CDSCO Approved ELISA Kits



Reagents & Ancillary products

SARS CoV2 Antigens



Antibodies



Nitrocellulose Paper



BioBharati LifeScience Pvt. Ltd.
Developing Best Products for Quality Research of Significance

For inquiries, write to indx-support@ccamp.res.in
CCAMP-InDx Marketplace - <https://indx.ccamp.res.in>
Website - <https://www.ccamp.res.in/indx-indigenous-diagnostics>

Contact Details of CCAMP-InDx Partners

ICMR-CDSCO Approved Rapid Antigen Kits

Manufacturer	Point of Contact	Contact Number	Email ID
Adv Chemical Pvt. Ltd.	Karan Kalra	9891166997	info@advchemical.com
Agappe Diagnostics Ltd.	Sreejith P R	9388754235	sreejith.pr@agappe.in
Lab-Care Diagnostics (I) Pvt. Ltd.	P. B. Bhatia	9821056409	pbhatia@labcarediagnostics.com
Mylab Discovery Solutions Pvt. Ltd.	Mohit Agarwal	9930375502	mohit@mylabdiscovery.com
Pathkits Healthcare Pvt. Ltd.	Kunal Chopra	7303429198	info@pathkits.com
Premier Medical Corporation Pvt. Ltd.	Nilesh Mehta	9791938340	nilesh@premiermedcorp.com
Strumed Solutions Pvt. Ltd.	Muthu Arumugam	6379454154	muthu@strumed.com
Trivitron Healthcare Pvt. Ltd.	Amit Arora	9871007298	amit.arora@trivitron.com
Ubio Biotechnology Systems Pvt. Ltd.	Sumi Sivaraman	9562207770	sumi@ubio.co.in

ICMR-CDSCO Approved Rapid Antibody Kits

Manufacturer	Point of Contact	Contact Number	Email ID
Adv Chemical Pvt. Ltd.	Karan Kalra	9891166997	info@advchemical.com
Lab-Care Diagnostics (I) Pvt. Ltd.	P. B. Bhatia	9821056409	pbhatia@labcarediagnostics.com
Med Source Ozone Biomedicals Pvt. Ltd.	Manan Mittal	9810163416	manan@ozonebio.com
POCT Services Pvt. Ltd.	Shashi Ranjan	9953334491	shashi.ranjan@pocservices.com
Premier Medical Corporation Pvt. Ltd.	Nilesh Mehta	9791938340	nilesh@premiermedcorp.com
Ubio Biotechnology Systems Pvt. Ltd.	Sumi Sivaraman	9562207770	sumi@ubio.co.in
Vanguard Diagnostics Pvt. Ltd.	Sapna Choudhary	9910510291	sapna.choudhary@vanguarddiagnostics.com

ICMR-CDSCO Approved ELISA Kits

Manufacturer	Point of Contact	Contact Number	Email ID
Himedia Laboratories Pvt. Ltd.	Pranaya Pradhan	9324740539	ppradhan@himedialabs.com
J. Mitra & Co. Pvt. Ltd.	Jatin Mahajan	8061790033	jatinmahajan@jmitra.co.in
Karwa Enterprises Pvt. Ltd.	Subir Dey	7506191437	subir.dey@rdgc.in
Lab-Care Diagnostics (I) Pvt. Ltd.	P. B. Bhatia	9821056409	pbhatia@labcarediagnostics.com
POCT Services Pvt. Ltd.	Shashi Ranjan	9953334491	shashi.ranjan@pocservices.com
Promea Therapeutics Pvt. Ltd.	Irati Pal	9100554481	irati.pal@promea.in
Trivitron Healthcare Pvt. Ltd.	Amit Arora	9871007298	amit.arora@trivitron.com
Vanguard Diagnostics Pvt. Ltd.	Sapna Choudhary	9910510291	sapna.choudhary@vanguarddiagnostics.com

Reagents & Ancillary products

Manufacturer	Point of Contact	Contact Number	Email ID
Advanced Microdevices Pvt. Ltd.	Abhinav Goyal	9729366221	abhinav.goyal@mdmembrane.com
BioBharati LifeScience Pvt. Ltd.	Arjun Ghosh	9836508080	biobharati@gmail.com
GeNext Genomics Pvt. Ltd.	Prachi Tiwari	8459261119	prachitiwari@genextgenomics.com
Premas Biotech Pvt. Ltd.	Vivek Chandra	9810206297	vivek.chandra@premasbiotech.com
Vision Bio Pvt. Ltd.	Sumanth	7349353951	technical@visionbio.in

Find them and more on the CCAMP-InDx Marketplace:
<https://indx.ccamp.res.in>



ABOUT C-CAMP

C-CAMP – conceptualised by the Department of Biotechnology, Government of India in 2009 – is a catalyst of cutting-edge research and innovation in life sciences. We're an integral part of the Bangalore Life Sciences Cluster (BLISC). Along with NCBS and inStem, we've been working towards enabling BLISC to emerge as a centre of excellence.

We encourage researchers and entrepreneurs to develop homegrown scientific tools and solutions; our CCAMP-InDx programme is a major step in that direction.

THE MINDS BEHIND THE GROUND-BREAKING CCAMP-InDx INITIATIVE

GOVERNANCE TEAM



Dr Taslimarif Saiyed
Principal Investigator,
CCAMP-InDx, Bangalore



Prof Satyajit Mayor
Director NCBS,
Bangalore



Prof L S Sashidhara
Dean of Research and Professor of
Biology, Ashoka University, Sonapat;
IISER, Pune

FUNCTIONAL TEAM



Lalith Kishore
COO-InDx



Dr Mitali Samaddar
Lead, Science
and Technology



Nimisha Gupta
Lead, Informatics



Richa Bohra
Lead, Outreach



Dr Rituparna Tewari
Lab Scientist and
Coordinator



Gopal Das
Application
Scientist



G Puvaneswari
Application
Scientist



**Dr Mayur
Rajankar**
Application
Scientist



**Dr Suman
Bhattacharya**
Application
Scientist



**Dr Manali
Motghare**
Application
Scientist



A N Shadakshari
Procurement

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