



**BIG**  
Kick Starting Entrepreneurship  
2<sup>nd</sup> BIG Report - 2016



**Biotechnology Industry Research  
Assistance Council (BIRAC)**  
(A Govt. of India Enterprise)

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**Revolutionising Biotech Startups**

# BIG

Kick Starting Entrepreneurship

2<sup>nd</sup> BIG Report - 2016





**Dr. Renu Swarup**  
Senior Adviser, DBT and MD, BIRAC

Small experiments can deliver big results- this is exemplified by BIRAC's national programme, the Biotechnology Ignition Grant (BIG), which began in 2012 to support biotech startups and has extended support to 192 innovation entrepreneurial teams. In the space of four years, BIG has truly transformed the biotech entrepreneurial culture especially the culture of taking an entrepreneurial journey by our young entrepreneurial researchers and startups.

Early stage ideas that have not been tested have the highest risk profiles since it is difficult to predict any successful outcome in the journey of the ideas along the product development chain. It is here, where BIG has contributed immensely, de-risking innovative ideas and helping them to move to proof-of-concept (POC) stage- an important benchmark in the product development chain- through an early stage grant of INR 50 lakhs.

BIG is delivered by our five BIG partners who besides management, of the programme, also extend valuable mentoring (both technical and business) to BIG recipients, connect them to relevant experts and provide access to networks for information and business growth. The success of BIG is a result of the joint efforts of BIRAC as well as BIG partners.

The impact of BIG is manifold- it has fostered many entrepreneurial individuals to establish startups; 60 new startups have been formed through facilitation by BIG, 62 new IPs have been generated, more than 500 high calibre jobs have been created, new technologies and prototypes have been developed and many have gone beyond the POC stage and are nearing market entry through early stage and late stage validations. BIG has become the foundation of new ideas and the pipeline for other innovation programmes. Many BIG startups are able to secure follow-on-funding from both public and private sources and it is indicative of the value attached to the initial de-risking by BIRAC's BIG support.

The intangible impacts are numerous as well. BIRAC, BIG Partners and BIG grant recipients (startups and entrepreneurs) have become part of the big innovation family- this collegial atmosphere is valued by everyone connected to BIG.

The 2nd BIG Report highlights the achievements of this pioneering programme and provides glimpses of many startups and entrepreneurs including their team and the innovative idea they are pushing for commercialization. The Strategy Partnership and Entrepreneurship Development (SPED) team at BIRAC will continue to refine BIG and deliver even greater societal impact. We wish our BIG entrepreneurs success in their entrepreneurial journeys.



# Biotechnology Ignition Grant

## Biotechnology Ignition Grant (BIG)

BIG is the flagship pioneering start up funding programme of BIRAC. Launched in July 2012, the programme has created a palpable biotech startup culture in the country by providing early stage grant to innovative and risky projects in all areas of life sciences, medtech and healthcare domains. Over the last 4 years, 192 projects have been approved. 122 projects are currently active and 52 projects have been completed. These innovative projects are attempting to change the paradigm of biotech innovation in the country.

Through BIG funding, a grant of up to INR 5 million is provided to biotech start ups and entrepreneurial individuals to propel best in class innovative ideas to a proof-of-concept (POC)-the first major milestone in the product development cycle

### The salient purpose of the BIG Scheme is to :

- Foster generation of ideas with commercialization potential
- Facilitate transformation of an idea into a proof of concept
- Encourage entrepreneurship by researchers and faculty
- Stimulate enterprise formation

## BIG Partners

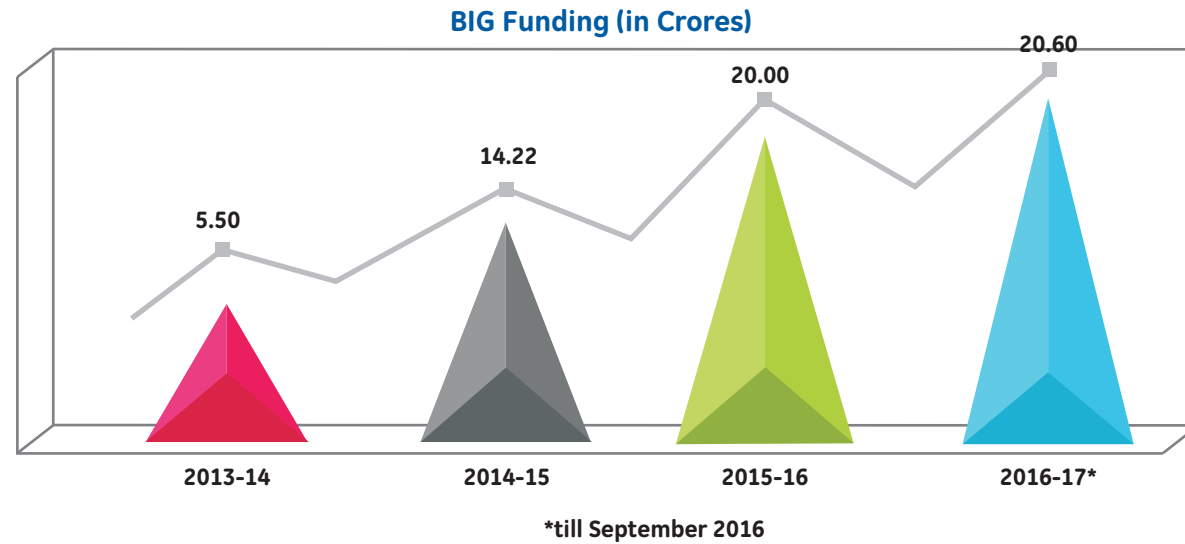
BIG is implemented by 5 BIG partners. The partners manage, hand-hold, monitor and provide guidance to BIG grantees including connecting them to investors and technical experts.

- **IKP Knowledge Park (IKP):** IKP Knowledge Park is a Section 8 (not-for-profit) company under the Companies Act, 2013. IKP Knowledge Park covers 200 acres & is located in Hyderabad.
- **Centre for Cellular And Molecular Platforms (C-CAMP):** C-CAMP is a Section 8 (not-for-profit) company under the Companies Act, 2013 located in the Bangalore Bio Cluster that houses NCBS, inSTEM and GKVK.
- **Foundation for Innovation and Technology Transfer (FITT):** It was established at the Indian Institute of Technology, Delhi (IIT Delhi) as a Registered Society on 9th July 1992.
- **Venture Center (Entrepreneurship Development Center, Pune):** The Venture Center is the trademark of Entrepreneurship Development Center, which is a Section 8 (not for profit) company hosted by the National Chemical Laboratory, Pune, India.
- **KIIT Technology Business Incubator (KIIT-TBI):** KIIT is a Section 8 (not for profit) company incorporated under the Companies Act 1956. KIIT-TBI is located in KIIT University Bhubaneswar.



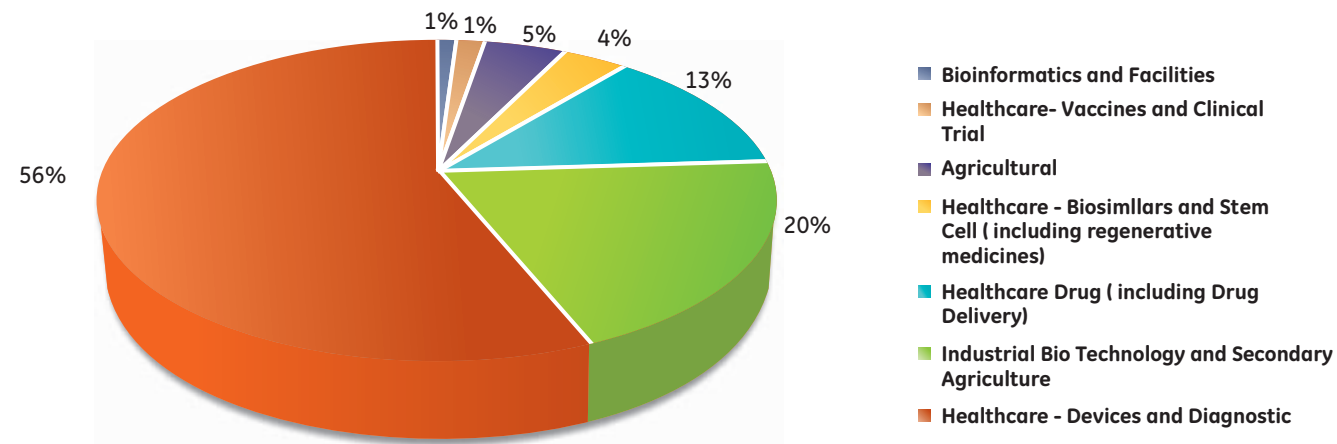
## BIG Fund Disbursement

Over the last 4 years BIRAC, through BIG, has provided INR 60.32 Cr to start ups and entrepreneurial individuals. This has facilitated the several ideas not just to reach POC but many a times to go beyond POC.

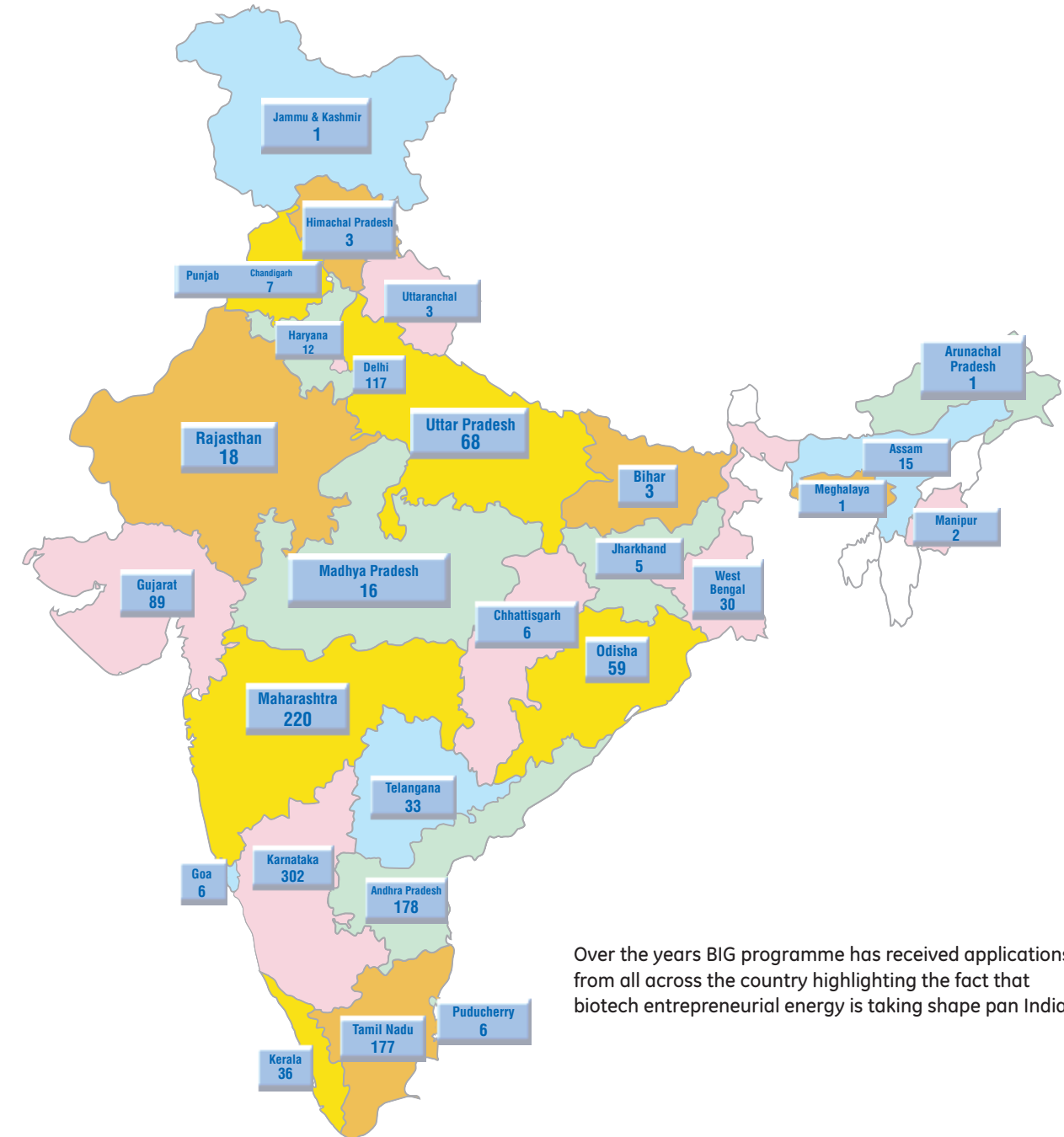


## Sectoral Project Distribution

An analysis of BIG supported projects shows that 56% of the projects fall in the category of medical device & diagnostics, followed by industrial biotechnology. Cumulatively, Healthcare accounts for 18%. Agriculture and Bioinformatics account for 1% each



## Applications from all Across India



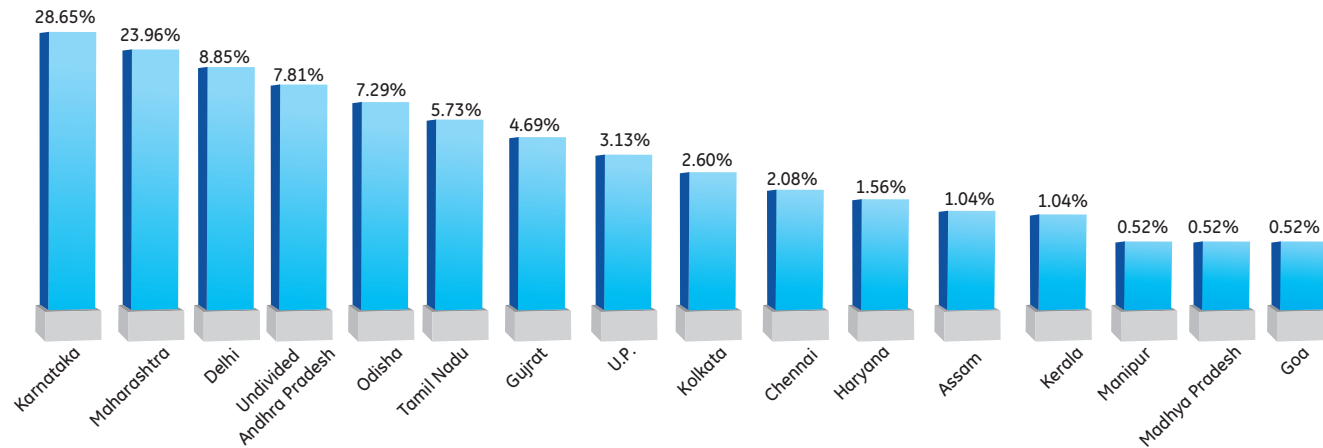
Over the years BIG programme has received applications from all across the country highlighting the fact that biotech entrepreneurial energy is taking shape pan India



## Geographical Distribution of Projects

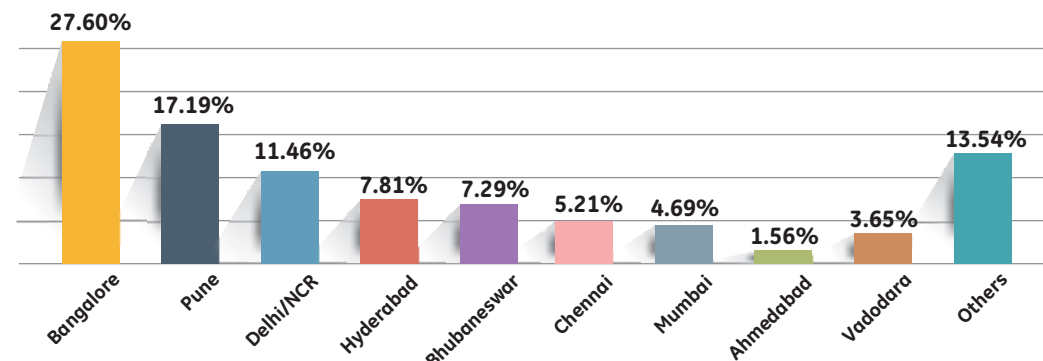
More than 50% of total projects are from 5 states: Karnataka, Maharashtra, Delhi, Andhra Pradesh, Odisha and Tamilnadu

Including 8th Call: Total No. of projects 192



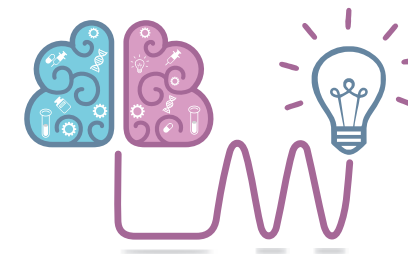
## The Spread Across the Indian Cities

Bangalore, Pune and National Capital Region (NCR) including Delhi lead the number of BIG projects reflecting their status as biotech/medtech hubs. While many others such as Bhubaneswar and Vadodara are emerging biotech startups hubs.



(data upto 8th Call)

## Reaching the First Hurdle of Productization - the PoC



BIG aims to foster the transition of an innovative idea to proof-of-concept. This scheme helps grantees to establish and validate Proof of Concept.

69 BIG Projects have established their PoC.

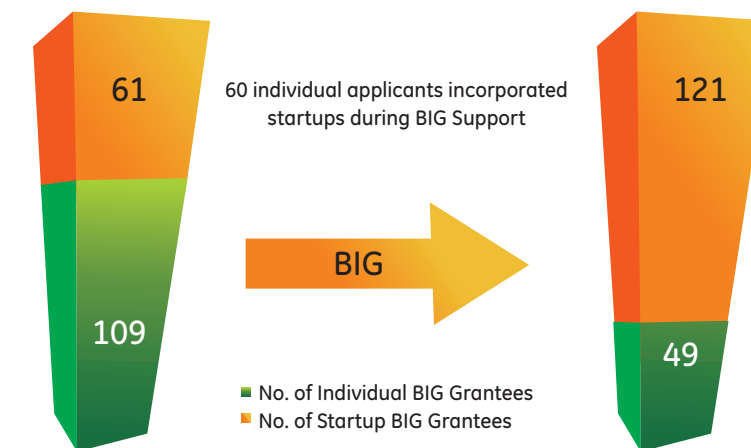
Out of 51 completed project, 44 achieved proof of concept for their projects

25 ongoing projects also have achieved proof of concept

## Catalysing New Startup Formation

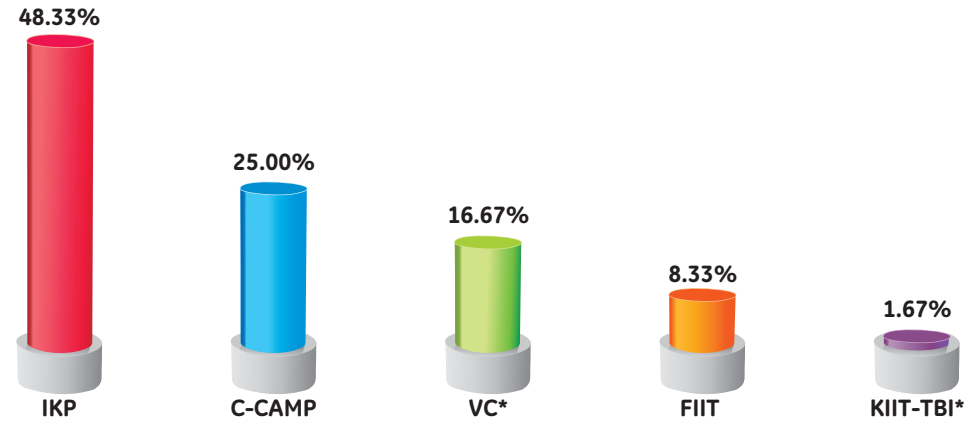
BIG has catalyzed formation of new 'Start ups' by triggering entrepreneurial energies of individual entrepreneurs.

This is borne out of the fact that out of 109 BIG Grantees who had applied as individuals, 60 later went on to found their biotech startups.



## BIG Partner wise New Startup Formation

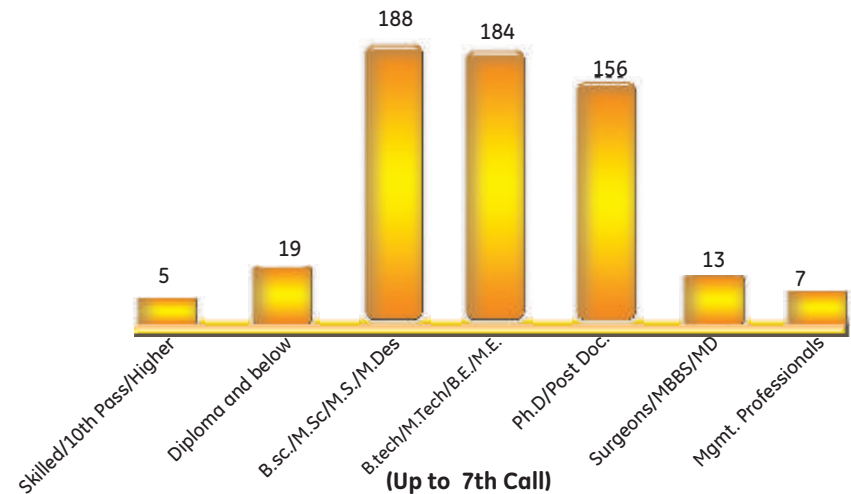
The percentage of individual BIG grantees establishing new startups (Totaling 60) across 5 BIG Partners.



\*Venture Center and KIIT-TBI joined as BIG Partner from 4th Call while other three have been partners from beginning

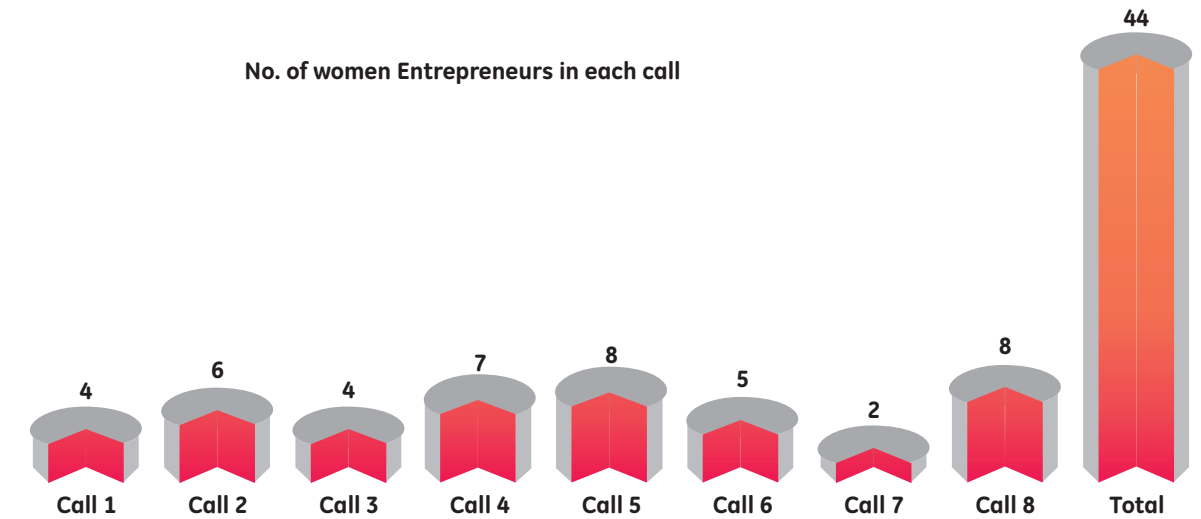
## Creating A High Technology Calibre Work Force

Potential 572 high tech employees from diverse background like Life Sciences, Engineering, Medical and MBA. The human resources supported not only gain valuable experience of pushing the boundaries of technology but also get trained in several other important aspects such as negotiations, vendor management, understanding regulation and communication



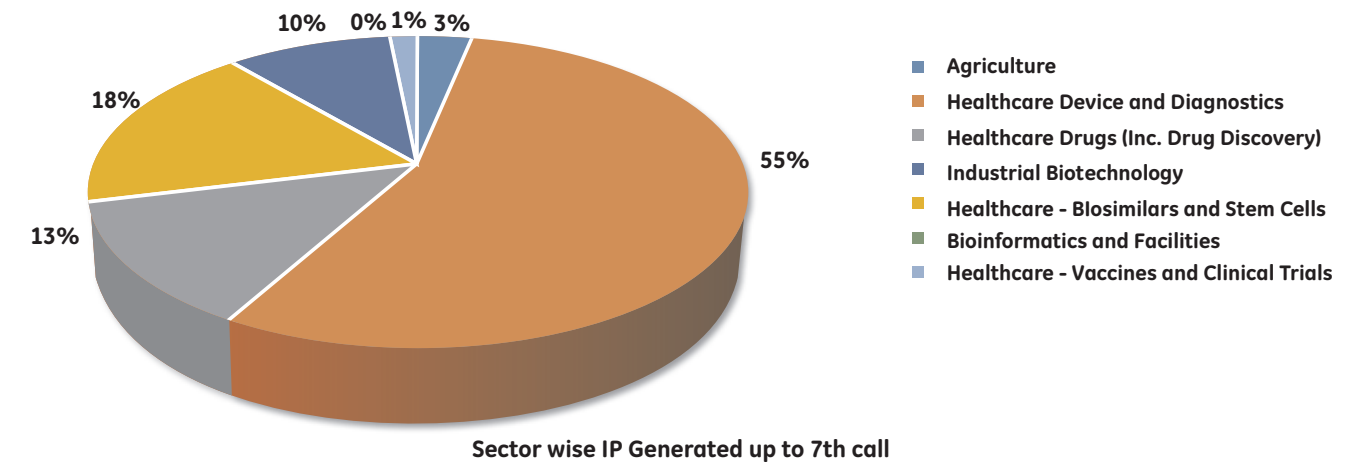
## Fostering Women Entrepreneurship

BIG has supported a total of 44 women entrepreneurs over the last 4 years



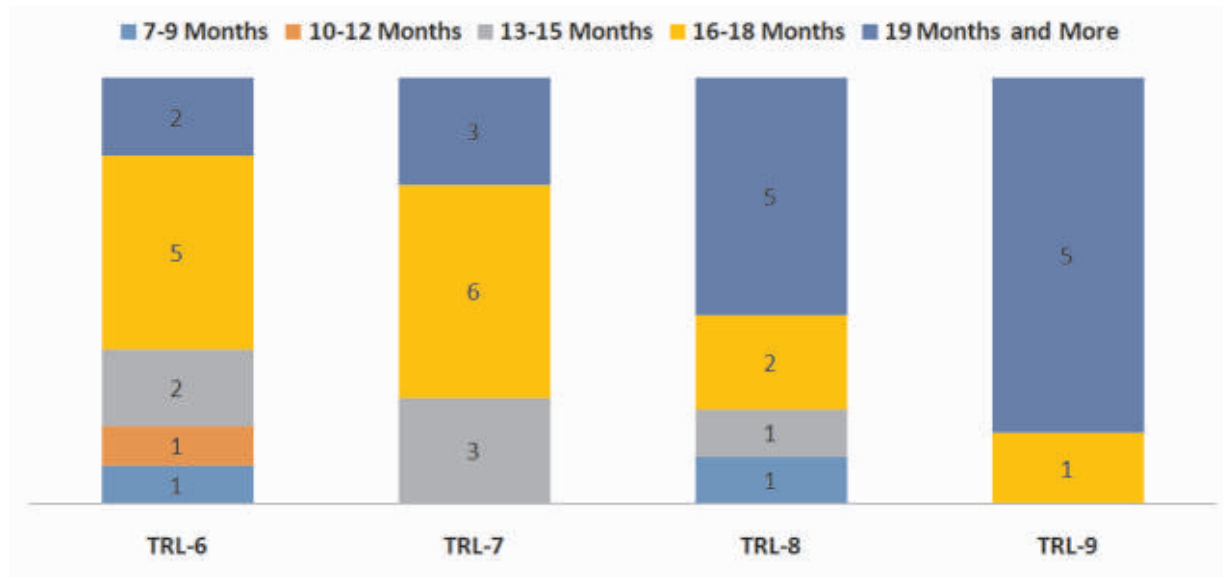
## Generating & Securing Intellectual Assets

- 62 IPs have been filed with highest no. of IPs in Healthcare- Device and Diagnostics
- 52 IPs are in process of being filed



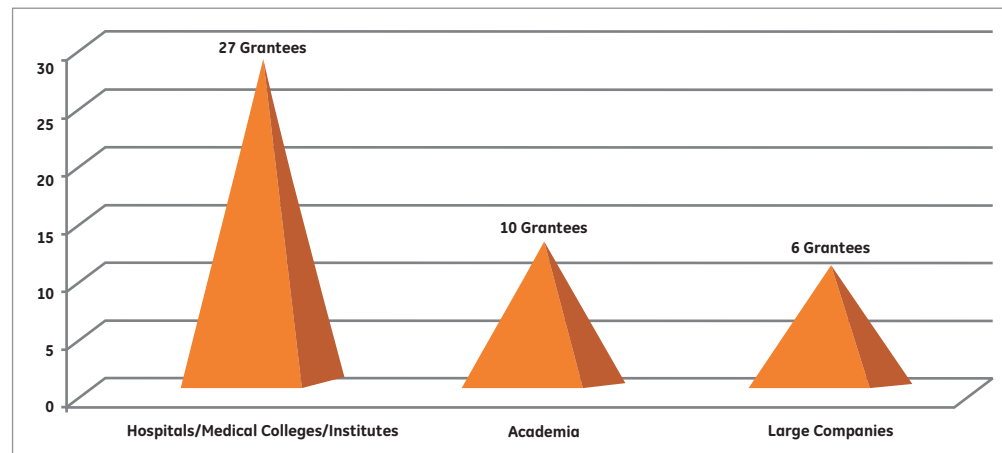
## Technology Readiness Level Jump

- Assuming that, all projects started at TRL-2, BIG has enabled entrepreneurs to take technology readiness to levels 6, 7, 8 and 9
- Out of 38 Projects with a minimum of 4 jumps in TRL (2 till 6), 21 got follow on funding to proceed towards commercialization



## Seeding New Collaboration Partners

34 BIG Grantees mentioned the names of their collaboration partners ranging from hospitals, other research labs in academia and large companies. Several new collaborations amongst BIG companies are taking shape.



## Follow on Funding: Preparing for the Next Leap

44 BIG Grantees availed follow on funding from different sources- Public, Private (Angel, VCs) and Not for Profits

Out of 44, 39 indicated amount of funding which totaled to INR 7657.71 lakhs.

Out of 39, 23 Grantees availed public funding of INR 1285.26 Lakhs.

Out of 39, 18 grantees availed private funding of 6372.45 lakhs.



## BIRAC-Judge Business School's Ignite Fellows at University of Cambridge, UK

BIRAC supports 5 BIG entrepreneurs each year to join week long flagship programme 'Ignite' at Judge Business School (JBS), University of Cambridge. BIRAC has sent 4 batches of BIG entrepreneurs who have networked with entrepreneurs across the world, built collaborative partnerships with the Cambridge ecosystem and beyond.



2013

Vishwas D. Joshi, Neeraj Jasmathiya  
Sahil Kapoor, Radha Rangarajan, Tuhin Bhowmick



2014

Udit Parekh, Shantanu Dhara,  
Anil Prabhakar, Pradip Sinha, Nitin Kale



2015

Arumugam Muruganandam, Venkateswarlu Panchagnula  
Aman Sharma, Rajkumar Rajagopal, Ashwin Lal



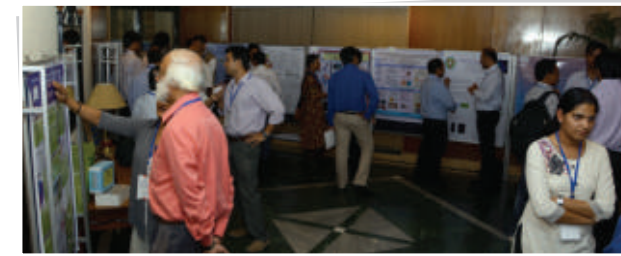
2016

Tanuj Gigras, Sudeshna Adak  
Aditya, Deepak Kumar, Adarsh Natarajan

## BIG Conclave: Platform for the BIG Community Leap

The BIG Conclave: BIRAC initiated the BIG Conclave, along with its BIG partners, for BIG entrepreneurs to network, share knowledge, explore collaborations and interact with business and technical experts. The 1st BIG Conclave was held at Delhi in

May 2015 in partnership with FITT, the 2nd BIG Conclave was held in partnership with C-CAMP at Bangalore.



1<sup>st</sup> BIG Conclave



2<sup>nd</sup> BIG Conclave

## Summary of BIG Achievements

Pan-Indian outreach to 29 states and union territories

69 projects achieved POC

38 Projects with a minimum 4 Technology Readiness Level Jumps

44 Women Entrepreneurs supported

62 IPs filed through BIG

60 New biotech startups formed

44 BIG Entrepreneurs received follow on funding

572 High tech work force created

2 BIG Conclaves organized for BIG entrepreneurs to connect, learn and network

4 Batches of BIRAC 'Ignite' fellows at University of Cambridge



## BIG Profiles

## BIG Glimpses: Innovations & Teams



### **AlgalR Nutra Pharms Pvt. Ltd.** **Mohanraj Subramanian**



The team has Produced Omega-3 fatty acids from marine microalgae



### **Amnivor Medicare Pvt. Ltd.** **Santanu Dhara**



The team has developed a procedure to isolate collagen from fish scales of fresh water origin and prepared collagen based downstream products for wound healing and tissue engineering applications.



### Alka Banker



The team has manufactured a new universally adjustable orthodontic bracket



### Cellzyme Biotech Pvt. Ltd. R. Rajkumar



The team has developed a process to produce Cephalosporin Antibiotics using Recombinant Deacetylase



### Aspartika Biotech Pvt. Ltd. Srinivas Bandlamori



The team has developed formulation of poultry feed, aqua feed, nutraceuticals and conductor in-vivo studies



### Crimson Healthcare Pvt. Ltd. Pranav Chopra



The team is in process of developing SphinX - Ostomy Management Device



### Cutting Edge Medical Devices Pvt. Ltd. Pankaj Parashar



The team has developed Scintilla - a portable urine protein analyzer device for mass healthcare



### Embryo Technologies Pvt. Ltd. Prateek Jain

The team has proposed to design, prototyping and testing of novel, self-expandable, axially flexible non-vascular stents at one-tenth the cost of similar products



### df3d Creations Pvt. Ltd. Deepak Raj



The team has Converted CT/MRI data to 3D printed models which will help the surgeons plan surgery more accurately by means of better implants thereby Increasing accuracy & reducing time taken for actual procedure.



### Indio Labs Pvt. Ltd. Siraj Bagwan



The team has developed novel, percutaneous soft tissue biopsy system with assisted hemostasis



**Kwaklei and Khonggunmelei Orchids Pvt. Ltd.  
Rajkumar Kishore**



The team has developed commercially viable orchid hybrids. The company is selling orchids through a website [www.kwakleikhonggunmeleiorchids.com](http://www.kwakleikhonggunmeleiorchids.com)



**Molqbits Sensors and Data Pvt. Ltd.  
Girish Arable**



The team is developing portable Raman Spectrometer for soil analysis



**Module Innovations Pvt. Ltd.  
Sachin Dubey**



The team is developing a simple platform based novel, rapid and color changing one-time and reusable nanofiber strips for selective detection of enterohaemorrhagic *Escherichia coli (EHEC)O157:H7*



**Monitra Healthcare Pvt. Ltd.  
Ravi Bhogu**



The team has developed a device for cardiac monitoring which is under validation



## Nayam Innovations Pvt. Ltd. Tanuj Gigras

The team is in process of developing intra-Ocular lens for eye sight enhancement



## Nusrat Sanghamitra



The team is in process of developing a molecular needle as a novel platform for delivery of anticancer drugs

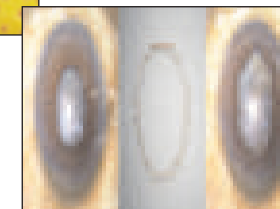


## Neera Bhalla Sarin

The team has proposed for Innovative approach for upscaling natural locopherol production from engineered Brassica juncea (Indian Mustard) for therapeutics



## Nayan Eye Centre Pvt. Ltd. Suven Bhattacharjee



The team has developed pupil expansion devices and delivery system



### OCT Therapies and Research Pvt. Ltd. Caroline Mathen



The team is in process of establishing of a mesenchymal stem cell bank as an alternative to skin bank.

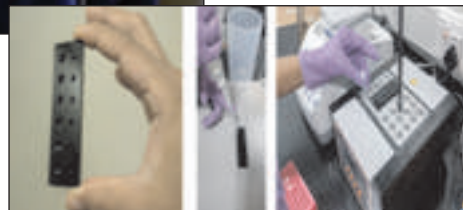


### openwater.in Sanjiv Sambandan

The team is in process of providing solution as hassle free waste water treatment: from water-bottles for Individuals to systems for communities



### OmiX Research and Diagnostics Laboratories Pvt. Ltd. Sudeshna Adak



The team is developing DNA testing on disposable plastic biochips: a high sensitivity platform for malaria detection



### Purius Nano Systems Pvt. Ltd. Purushothaman Gempuraj

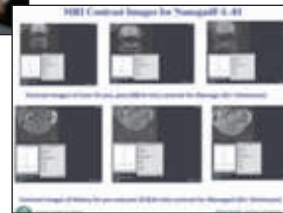


The team is in process of developing a biosensors based system to test nucleic acid





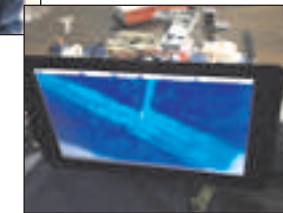
**Robust Herbals Pvt. Ltd.**  
**Ravi Kumar**



The team is in process of developing of long circulating biodegradable nanoparticle MRI contrast agents based on hydroxypropyl-beta-cyclodextrin



**Scidogma Research Scientific Networks Pvt. Ltd.**  
**Satya Tapas**



The team is in process of developing a portable microscope to detect malaria



**Sascan Meditech Pvt. Ltd.**  
**Subhash Narayanan**

The team has developed a prototype of a camera to screen oral cancer which is under validation



**Sea6 Energy**  
**Sailja Nori**



The team has developed an agristimulant from seaweed extract and commercially launched this with name "Jingo" in May 2015.



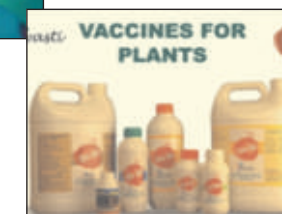
### Shirdi Sai Nutraceuticals Pvt. Ltd. Sambasivarao Javvadi



The team has developed immobilized lipases for interesterification of oils and fats to produce healthy fats at low cost



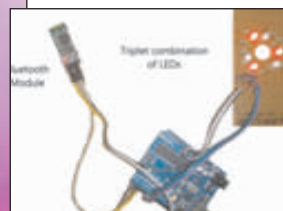
### Swasti Agro & Bioproducts Pvt. Ltd. Abhay Shendye



The team has developed novel chitosan derivative for building SAR in plants: specifically leaf blight of Pomegranate caused by *Xanthomonas sp*



### SkinCurate Research Pvt. Ltd. Debdoot Sheet



The team is developing multispectral Optical imaging and computing technologies for realtime in-situ functional characterization and monitoring of cutaneous wound healing progression

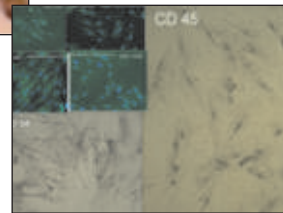


### SynThera Biomedical Pvt. Ltd. Nilay Lakkhar

The team has proposed to make Dental alloplasts from bioactive phosphate glasses



## Total Potential Cells Pvt. Ltd Bhaskar Vyas



The team has developed a novel therapeutic modality using derived mesenchymal stem cells for treating osteoarthritis patients & establishing clinical based evidence



## Vanita Prasad

The team is developing a cost effective and indigenous process of making anaerobic granulated sludge optimized to enable quick start-up and easy operation of UASB in waste water treatment so as to make the process energy efficient, requiring less space while achieving higher COD removal rate and higher yield of methane at higher loading rates

**TEAM MEMBERS**

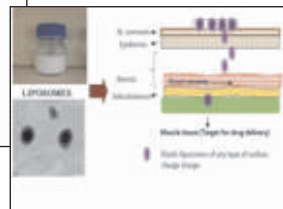
**Dr. VANAJA K.**  
Assistant Professor, Vaniyasa Institute of Pharmaceutical Sciences, Bangalore - 56

**Dr. S. HARASIMU MURTHY**  
Professor, The University of Mysore, MG, USA

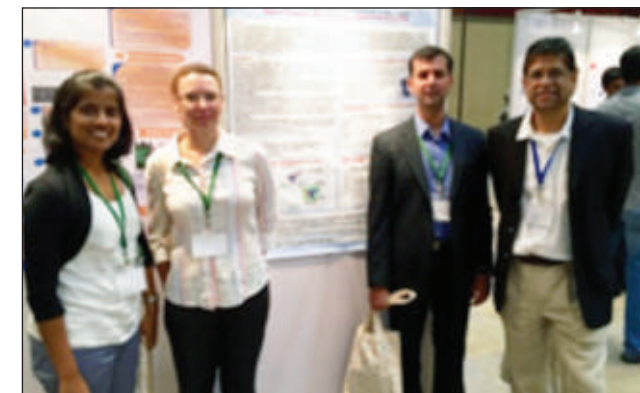
**Ms. SALMA**  
Junior Research Associate

**Ms. RACHA H.**

## Vanaja K Gowda



The team is developing a safe and effective technology for treating musculoskeletal disorders in elder patients



## Vegrandis Therapeutics Pvt. Ltd. Uday Saxena



The team is developing a process for delivery and retention of Irinotecan loaded magnetic nanoparticles for treatment of brain tumors



## Viravecs Labs LLP Rohan Kamat

The team is in process of developing a novel technology for generation of stable transgenic systems



## Windmill Health Technologies Pvt. Ltd. Avijit Bansal

The team has developed novel integrated newborn resuscitation solution to empower front-line health workers to resuscitate newborns effectively



## Weinnovate Biosolutions Pvt. Ltd. Milind Choudhari



The team has developed a novel organic and inorganic nano-formulation for rapid wound healing and control of infection



## Yostra Labs Pvt. Ltd. Vinayak Nandalike

The team has proposed to come up with warm oxygen therapy for treatment of diabetic foot ulcer

# List of BIG Startups and Entrepreneurs



S. No.	Partner	Call	Name of the Applicant	Name of the PI	Title of the project
1	Centre for Cellular and Molecular Platform	1	Achira Labs Pvt. Ltd.	Dhananjaya Dendukuri	Development of an aptamer-based platform to detect novel Tuberculosis markers in human serum
2	Centre for Cellular and Molecular Platform	1	Pandorum Technologies Pvt. Ltd.	Tuhin Bhowmick	Modular Resilin-mimetic Elastomeric Platform
3	Centre for Cellular and Molecular Platform	1	Sea6 Energy Pvt. Ltd.	Sailaja Nori	Metabolic Engineering of marine bacteria for the production of isobutanol in salt water
4	Centre for Cellular and Molecular Platform	1	Vikas Mehra	Vikas Mehra	Expression of therapeutic diabody against TNF-alpha and IL17R
5	Centre for Cellular and Molecular Platform	1	Western Range Biopharmaceuticals	Vinod Kuberkar	Cancer treatment through autologous activated dendritic cells
6	Centre for Cellular and Molecular Platform	1	Codon Biosciences Pvt. Ltd.	Archana Thakur	Enzymatic maceration of mango pulp to produce quality wine
7	Centre for Cellular and Molecular Platform	2	Unilumen Photonics Pvt. Ltd.	Anil Prabhakar	Fibre lasers for photoselective tissue ablation
8	Centre for Cellular and Molecular Platform	2	Nurture Earth R&D Pvt. Ltd.	Sanjay Deshmukh	Testing the feasibility of Nano magnetic disc based ablation of Cancer cells in vitro
9	Centre for Cellular and Molecular Platform	2	GeNext Genomics Pvt. Ltd.	Supriya Kashikar	Establishing and Validating a novel drug target in mycobacterium tuberculosis
10	Centre for Cellular and Molecular Platform	2	InvivoD Solutions Private Limited	Pradip Sinha	Industrial application of a novel cancer drug screening method
11	Centre for Cellular and Molecular Platform	2	TheramyT Biologics Pvt. Ltd.	Maloy Ghosh	Development of Fucose Knock out technology platform in CHO S cell line for improved Biotherapeutics

S. No.	Partner	Call	Name of the Applicant	Name of the PI	Title of the project
12	Centre for Cellular and Molecular Platform	2	Yashoda Ghanekar	Yashoda Ghanekar	Development and Validation of Gene Delivery System for Novel Model Organisms
13	Centre for Cellular and Molecular Platform	2	Vinod Nayak	Vinod Nayak	A Yeast based system for protein expression and metabolic engineering
14	Centre for Cellular and Molecular Platform	2	Butacel Bioresearch Pvt. Ltd.	Nidhi Adlakha	Synthetic biology for overproduction of 2,3-butanediol
15	Centre for Cellular and Molecular Platform	2	Srinivas Bandlamori	Srinivas Bandlamori	Value added products such as nutraceuticals, poultry feed, aqua feed from the wastes/byproducts of palm oil mills and silk reeling industries
16	Centre for Cellular and molecular platform	2	Shirdi Sai Nutraceuticals Pvt. Ltd.	Sambasivarao Javvadi	development of low cost, high performance immobilized lipases for intersterification of oils and fats to produce healthy fats
17	Centre for Cellular and Molecular Platform	2	Swetha Morey	Swetha Morey	Developing Novel Lactic Acid Bacteria Antimicrobial Interventions to Improve Food Safety and Shelf-life
18	Centre for Cellular and molecular platform	3	Indio Labs Pvt. Ltd.	Siraj Bagwan	Novel, percutaneous soft tissue biopsy system with assisted hemostasis
19	Centre for Cellular and molecular platform	3	Sai Siva Gorthi	Sai Siva Gorthi	Hand-held imaging flow cytometer for quantitative diagnosis of malaria
20	Centre for Cellular and Molecular Platform	3	Module Innovations Pvt. Ltd.	Sachin Dubey	A simple platform based novel, rapid and color changing one-time and reusable nanofiber strips for selective detection of Enterohaemorrhagic Escherichia coli (EHEC)O157:H7
21	Centre for Cellular and Molecular Platform	3	Robust herbals Pvt. Ltd.	Ravi kumar	Development of Long Circulating Biodegradable Nanoparticle MRI Contrast Agents Based on Hydroxypropyl-beta-Cyclodextrin

S. No.	Partner	Call	Name of the Applicant	Name of the PI	Title of the project
22	Centre for Cellular and Molecular Platform	3	Jonathan Pillai	Jonathan Pillai	An implantable drug-delivery device for improving Tuberculosis treatment adherence and compliance
23	Centre for Cellular and Molecular Platform	3	Praveen Vemula	Praveen Vemula	Low-Cost Prophylactic Topical Dermal Cream to Prevent Chronic Exposure of Toxic Pesticides
24	Centre for Cellular and Molecular Platform	3	Affigenix Biosolutions Pvt. Ltd.	Arumugam	Development of trypsin resistant PAN reactive trypsin antibodies for industrial application
25	Centre for Cellular and Molecular Platform	3	Geniron Biolabs Pvt. Ltd.	Prashant	Bicistronic self replicating DNA vaccine for rabies and immunocontraception in stray dogs
26	Centre for Cellular and Molecular Platform	3	Karthik Chetan	Karthik Chetan	3D printer filaments that are biomaterial-based and eco-friendly
27	Centre for Cellular and Molecular Platform	3	String Bio Pvt. Ltd.	Ezhilkani Subbain	Economical process for conversion of waste to green chemicals
28	Centre for Cellular and Molecular Platform	3	Sukhada Mohandas	Sukhada Mohandas	Upscaling Banana propagation using bioreactors
29	Centre for Cellular and Molecular Platform	3	Mousumi Mondal	Mousumi Mondal	Development of economically viable synergistic nutraceutical formulations with Cordyceps and male silkworm larvae for disorders related to pancreas, kidney, liver, impotency etc. by culturing Cordyceps on silkworm in an artificial environment
30	Centre for Cellular and Molecular Platform	3	Total Potential Cells Pvt. Ltd.	Bhaskar Vyas	A novel Therapeutic modality using derived mesenchymal stem cells for treating osteoarthritis patients & establishing clinical based evidence
31	Centre for Cellular and Molecular Platform	3	Oct Therapies and Research Pvt. Ltd.	Caroline Mathen	Establishment of a mesenchymal stem cell bank as an alternative skin bank

S. No.	Partner	Call	Name of the Applicant	Name of the PI	Title of the project
32	Centre for Cellular and Molecular Platform	4	B. Mohana Subramanian	B. Mohana Subramanian	Novel Therapeutic Interventions against fatal canine viral pathogenesis
33	Centre for Cellular and Molecular Platform	4	Inaccel Consulting	Jagadish Chaturvedi	A Safer and easier Nasal foreign body extractor for clinicians in under-served areas
34	Centre for Cellular and Molecular Platform	4	Biomoneta Research	Janani Venkitraman	Mapping of Prochiral Chemical Space covered by Ketoreductases
35	Centre for Cellular and Molecular Platform	4	Kinome Pharma	Ananthram Vellareddy	Evaluation of Clovamide analogs as Neuroprotective Agents for treatment of Parkinson's
36	Centre for Cellular and Molecular Platform	4	Bugworks Research India Pvt. Ltd.	Ramanujan	Unraveling mechanism of action for anti-bacterial compounds emerging from phenotypic screens
37	Centre for Cellular and Molecular Platform	4	Shilps Sciences	Ashwin Lal	Atomic Force Probing of cells for clinical and pharmaceutical applications
38	Centre for Cellular and Molecular Platform	5	Aten Porus Lifesciences Pvt. Ltd.	Aditya Kulkarni	First-in-Class Therapeutics for Lysosomal Storage Disorders
39	Centre for Cellular and Molecular Platform	5	DF3D Creations Pvt. Ltd.	Deepak Raj	Conversion of CT/MR data to 3d printed models help the surgeons plan surgery more accurately by means of better implants there by Increasing accuracy & reducing time taken for actual procedure
40	Centre for Cellular and Molecular Platform	5	Coeo Labs	Nachiket Deval	Novel and effective way to reduce the risk of ventilator associated pneumonia
41	Centre for Cellular and Molecular Platform	5	Naga Mohan Kommu	Naga Mohan Kommu	Automated detection of abnormal copy number variants in human diseases
42	Centre for Cellular and Molecular Platform	5	Vital Bioscientific Solutions	Padma Priya	Development of a novel monolayer based parallel artificial membrane permeability assay to determine permeability of new chemical entities and drugs

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43	Centre for Cellular and Molecular Platform	5	Soumen Roy	Soumen Roy	Harnessing cheater cells for probiotics: applying game theory for nutrition and health
44	Centre for Cellular and Molecular Platform	5	Satya Tapas	Satya Tapas	Development of highly sensitive portable microscope for malaria detection
45	Centre for Cellular and Molecular Platform	5	Pentavalent Biosciences Pvt. Ltd.	Bhavani P	Pentafluvac- An indigenous replication - incompetent viral vaccine for influenza
46	Centre for Cellular and Molecular Platform	7	Yostra Labs Pvt. Ltd.	Vinayak Nandalike	Warm Oxygen Therapy for Treatment of Diabetic Foot Ulcer
47	Centre for Cellular and Molecular Platform	7	Subhasis Sarangi	Subhasis Sarangi	Pulse Induction Magnetic Nanoparticle Detector for Lymph Node Mapping
48	Centre for Cellular and Molecular Platform	7	Sanjiv Sambandan	Sanjiv Sambandan	Hassle Free Waste Water Treatment: From Water-bottles for Individuals to Systems for Communities
49	Centre for Cellular and Molecular Platform	7	Maroudam Veeraswami	Maroudam Veeraswami	Affordable Point-Of-Care Animal Tb Diagnostic Kit For Tb Control
50	Centre for Cellular and Molecular Platform	5	Srujan Marepally	Srujan Marepally	Bile acid lipoids as potential therapeutics for psoriasis
51	Foundation for Innovation and Technology Transfer	1	Innovator Lab Consultants	Sujay Shad	Mechanical Heart Valve Fixation System
52	Foundation for Innovation and Technology Transfer	1	Jayant Karve	Jayant Karve	Intraseous Device
53	Foundation for Innovation and Technology Transfer	1	Novo Informatics	Avinash Mishra	Study, Design and Development of Hit Molecules for Type-II Diabetes
54	Foundation for Innovation and Technology Transfer	1	G.M. Biotech	Susmita Ghosh	Development of Diagnostic Reagents for Acute Myocardial Infarction
55	Foundation for Innovation and Technology Transfer	1	Nanosniff Technologies	Nitin Kale	Rapid detection of Acute Myocardial Infarction by sensing Cardiac Markers using Micro Cantilever Technology

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56	Foundation for Innovation and Technology Transfer	1	I4Vision Diagnostics Pvt Ltd	Dinesh Verma	Personal Ophthalmic Diagnostic System (PODS)
57	Foundation for Innovation and Technology Transfer	2	Mahesh Shanker Dhar	Mahesh Shanker Dhar	Use of Novel Superoxide dismutase with anti-ageing properties as oral supplement and cosmetics
58	Foundation for Innovation and Technology Transfer	2	Shalini Gupta	Shalini Gupta	Design and Development of a Rapid Point-of-care Device for Endotoxin Detection in Critically Ill/Septicemia Patients
59	Foundation for Innovation and Technology Transfer	2	Actorius Innovations and Research	Aravindan Vasudevan	Detection of Circulating Tumor Cells by Multifunctional Highly Dispersible Polymeric-Magneto-Antibody Nanosystem
60	Foundation for Innovation and Technology Transfer	2	Amnivor Medicare Pvt. Ltd.	Santanu Dhara	Production of collagen and by products from fresh water fish origin for biomedical applications
61	Foundation for Innovation and Technology Transfer	2	A Pallavi	A Pallavi	Deglycosylated ethnic banana as a mucosal health protectant
62	Foundation for Innovation and Technology Transfer	2	Sitalogics Pvt. Ltd.	K Srinivas Rao	Biomimetic Bone Substitutes : A Proof of Concept prototype for synthetic bone substitute consisting of a nano composite of Demineralised matrix and hydroxypapatite
63	Foundation for Innovation and Technology Transfer	3	Ajit Varma	Ajit Varma	Interaction of Nano-embedded Piriformospora indica with the plant of medicinal importance, Brassica oleracea var. Botrytis (Broccoli)
64	Foundation for Innovation and Technology Transfer	3	H.N. Shivakumar	H.N. Shivakumar	Transdermal Iron Replenishment Therapy
65	Foundation for Innovation and Technology Transfer	3	SG ArtHeart Pvt Ltd	Sujoy K Guha	Keyhole Surgery replaceable

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66	Foundation for Innovation and Technology Transfer	3	Padmaseetha, Gowrishankar W	Padmaseetha, Gowrishankar W	MCAPD Mobile Continuous Ambulatory Peritoneal Dialysis
67	Foundation for Innovation and Technology Transfer	3	M.K. Reddy	M.K. Reddy	Production of Phytate free food grains: Effective Strategy to deal with micronutrient deficiency
68	Foundation for Innovation and Technology Transfer	3	Sushant Poojary	Sushant Poojary	Development of Commercial Grade Low Cost Arterial Pulse Analyzer
69	Foundation for Innovation and Technology Transfer	4	Nayan Eye Centre Pvt. Ltd.	Suven Bhattacharjee	Pupil Expansion Devices and Delivery System
70	Foundation for Innovation and Technology Transfer	4	Bhami's Research Laboratory	Bhami Shenoy	Process Crystallization as a Purification Tool to Therapeutic Antibody
71	Foundation for Innovation and Technology Transfer	4	Yaathum Biotech Pvt. Ltd.	Anitha Rajgopal	Developing a rapid multiplex test to diagnose extensively drug resistant (XDR) TB and Multidrug resistant (MOR) TB
72	Foundation for Innovation and Technology Transfer	4	Sakosh Biotech Pvt. Ltd.	Kavita Singh	Development of an indigenous rapid card test to detect IgM against TORCH infections in prenatal and perinatal causes using recombinant proteins as capture antigens
73	Foundation for Innovation and Technology Transfer	4	Abhijith Bailur	Abhijith Bailur	An innovative, hand-held (pen-styled) sensor system for early identification of coarctation of aorta in neonates
74	Foundation for Innovation and Technology Transfer	4	Nextec Lifesciences	Ranjana Srivastava	Introduction and development of new DNA based kit for early and accurate diagnosis of Tuberculosis
75	Foundation for Innovation and Technology Transfer	4	Plasmatech Solutions Pvt Ltd	Vignesh Narasimhan	Janakiraman Development and Validation of novel pseudobioaffinity based purification method for efficient recovery of coagulation factor VIII

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76	Foundation for Innovation and Technology Transfer	5	Sarita Ahlawat	Sarita Ahlawat	Development of an early Breast and Cervical cancer detection method using novel high resolution digital holographic microscope
77	Foundation for Innovation and Technology Transfer	5	Cutting Edge Medical Devices	Pankaj Parashar	Scintilla - a portable urine protein analyser device for Mass healthcare
78	Foundation for Innovation and Technology Transfer	5	Pawan Mehrotra	Pawan Mehrotra	Development of affordable breast prosthesis and mastectomy bras for breast cancer patients
79	Foundation for Innovation and Technology Transfer	5	Neera Bhalla Sarin	Neera Bhalla Sarin	Innovative approach for upscaling natural locopherol production from engineered Brassica juncea (Indian Mustard) for therapeutics
80	Foundation for Innovation and Technology Transfer	5	V. Perumal	V. Perumal	Rapid diagnosis of bacterial gastroenteritis in resource poor settings
81	Foundation for Innovation and Technology Transfer	5	Vanaja K. Gowda	Vanaja K. Gowda	A safe and effective technology for treating musculoskeletal disorders in elder patients
82	Foundation for Innovation and Technology Transfer	6	Alka Banker	Alka Banker	Manufacturing of a new univiersally ajustable orthodontic bracket
83	Foundation for Innovation and Technology Transfer	6	Anupam Bam	Anupam Bam	Design and Development of a low cost, easy-to-use stretcher for complete immobilization of spine and limbs and shock absorption during transport of physical trauma patients
84	Foundation for Innovation and Technology Transfer	7	Anamika Prasad	Anamika Prasad	Design and Development of Vitamin A Deficiency Diagnostic Device with Data Integration for Field application
85	IKP- Knowledge Park	1	Sabio Innovative Solutions Pvt. Ltd.	Udit Parekh	A Platform for Rapid Antibiotic Susceptibility Testing (AST) and Assessment of Bacterial Load



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86	IKP- Knowledge Park	1	Vitas Pharma Research Pvt. Ltd.	Radha Rangarajan	Novel inhibitors of DNA Gyrase for the treatment of multidrug resistant infections
87	IKP- Knowledge Park	1	Crystalin Research Pvt. Ltd.	Ashwini Nangia	Pharmacological Evaluation of N-oxide Metabolite of Antipsychotic Drug for Type 2 Diabetes
88	IKP- Knowledge Park	1	Seagull Biosolutions Pvt. Ltd.	Vishwas Joshi	Novel Oncotherapeutic Measles Virus using eSAME system
89	IKP- Knowledge Park	1	Pradin Technologies Pvt. Ltd.	Dinesh Bindiganawale	Fetal Electrocardiogram and Uterine Activity signal extraction from Maternal Electrocardiogram eliminating the need for the use of conventional transducers
90	IKP- Knowledge Park	1	Zephase Therapeutics Pvt. Ltd.	Kiranam Chatti	Creation of transgenic zebrafish as cancer models
91	IKP- Knowledge Park	1	GPS Renewables Pvt. Ltd.	Mainak Chakraborty Sajal Chakravarty	Biochemical Research & Development to Improve the Efficacy of a Dry, Thermophilic, Anaerobic Reactor
92	IKP- Knowledge Park	1	Praveer Gupta	Praveer Gupta	Engineered stable, nano-sized bubble liposomes - a commercially viable drug delivery platform
93	IKP- Knowledge Park	2	Swayambhu Biologics Pvt. Ltd.	R. Balaji	Bioremediations for Agro Industrial Solid Wastes by ARBIT for Efficient Management Through Energy and Biomanure Conversions.
94	IKP- Knowledge Park	2	Windmill Health Tech. Pvt. Ltd.	Avijit Bansal	Novel Integrated Newborn Resuscitation Solution to Empower Front-line Health Workers to Resuscitate Newborns Effectively
95	IKP- Knowledge Park	2	Sohum Innovations Pvt. Ltd.	Nitin Sisodia	A novel device to screen newborns for hearing loss in resource poor settings

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96	IKP- Knowledge Park	2	Kwaklei & Khonggunmelei Orchids Pvt. Ltd.	Rajkumar Kishor	Clonal propagation of elite genotype of orchid hybrids synthesised in Manipur for commercial cultivation
97	IKP- Knowledge Park	2	Mugagen Laboratories Pvt. Ltd.	Utpal Bora	Exploring Muga silk fibre as a promising suture material
98	IKP- Knowledge Park	2	Vegrandis Therapeutics Pvt. Ltd.	Uday Saxena	Delivery and retention of Irinotecan loaded magnetic nanoparticles for treatment of brain tumors
99	IKP- Knowledge Park	2	Wobble Base Bioresearch Pvt. Ltd.	Pratap Mukhopadhyaya	Development of a novel fungal bio control agent using protoplast fusion technology to target drug resistant gastrointestinal cattle worms responsible for reducing productivity, by an eco friendly approach.
100	IKP- Knowledge Park	2	Jeevtronics Pvt. Ltd.	Aniruddha Atre	World's Most Affordable, long life Defibrillator that is Battery less, Hand Cranked, Rugged with reusable paddles.
101	IKP- Knowledge Park	2	Genrich Membranes Pvt. Ltd.	Ulhas K. Kharul	Hollow Fibre Membrane Based Low-Cost Oxygen Concentrator for Medical Applications
102	IKP- Knowledge Park	3	Sathyavathan	Sathyavathan Pathanjali	Metabolic engineering of Pseudomonas putida for 3-Hydroxypropionic acid production
103	IKP- Knowledge Park	3	Purius Nanosystems Pvt. Ltd.	Purushothaman Gempuraj	Development of a Based Point-of-Care Biosensor Nucleic Acid Testing System
104	IKP- Knowledge Park	3	Orthocrafts Innvations Pvt. Ltd.	Ashish Lele	Bioabsorbable implants based on polylactic acid (PLLA)
105	IKP- Knowledge Park	3	Sky Solar & Power India Ltd.	Mike Ragahvan	A Novel Method of Converting Agri Waste to Energy with Direct Benefit to

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106	IKP- Knowledge Park	3	Kunal khanna	Kunal khanna	Farmers: Use Rice Husks to Produce Carbon-Coated Nanoporous Si/SiO <sub>2</sub> for Li-Ion Batteries
107	IKP- Knowledge Park	3	Abhiruchi Probiotics Pvt. Ltd.	Archana Pundle	3-D Bone Graft and GBR Membrane for Maxillofacial and periodontal repair: Towards a clinical study
108	IKP- Knowledge Park	3	Barefeet Analytics Pvt. Ltd.	Venkateswarlu Panchagnula	A Novel formulation for Probiotic Food Additive
109	IKP- Knowledge Park	3	Pregen Research Lab Pvt. Ltd.	Shivkumar D. Chauhan	Laser Desorption / Ionization Mass Spectrometric (LDI MS) solutions for High throughput Detection & Analysis of Residual Compounds, Contaminants and Small Molecules in Milk & Dairy Products
110	IKP- Knowledge Park	4	BiolMed Innovations Pvt. Ltd.	Anuya Nisal	Non-invasive Prenatal Diagnosis Kit for Sickle Cell Anemia
111	IKP- Knowledge Park	4	Natürlich Global Beverages Pvt. Ltd.	Arjun Krishna	Osteoconductive Bone Graft Substitutes
112	IKP- Knowledge Park	4	Sushma Meshram	Sushma Meshram	Production of non-alcoholic drink enriched with essential vitamins and minerals by microbial fermentation of natural raw materials
113	IKP- Knowledge Park	4	Brun Health Pvt. Ltd.	Anirudh Chaturvedi	Application of pentose utilizing yeast strain(s) for higher ethanol production from hemicelluloses
114	IKP- Knowledge Park	4	Vivira Process Technologies Pvt. Ltd.	Vivek Vinayak Ranade	Brun – A Perinatal Monitoring Device
115	IKP- Knowledge Park	4	Annweshan SciTech. Pvt. Ltd.	Dhiman Sarkar	VodCa for Distillery Industry [VodCa: Vortex Diode based Cavitation Devices]
					Development of a novel diagnostic kit for Tuberculosis

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116	IKP- Knowledge Park	5	Srinivasa Prakash Regalla	Srinivasa Prakash Regalla	Develop and Test Certain 3D Printing Technologies to Produce Innovative limbs at Affordable Costs for the Disabled in India
117	IKP- Knowledge Park	5	Monitra Healthcare Pvt. Ltd.	Ravi Bhogu	Remote Cardiac Monitoring and Real-Time Outpatient Cardiac Telemetry
118	IKP- Knowledge Park	5	Green Pyramid Biotech. Pvt. Ltd.	Mihir Mehta	Bio-Synthesis, Production and Formulation of Sophorolipids for the purpose of Sanitizing/Sterilizing Fruits and Vegetables thus enhancing their shelf-life.
119	IKP- Knowledge Park Pvt. Ltd.	5	Nayam Innovations	Tanuj Gigras	ISITE Intra-Ocular Lens for Spectacle Free Vision
120	IKP- Knowledge Park	5	AlgalR NutraPharms Pvt. Ltd.	Mohanraj Subramanian	Establishment and Validation of Commercially Viable Technologies for the Production of Omega-3 Fatty Acids from Marine Microalgae
121	IKP- Knowledge Park	6	Aindra Systems Pvt. Ltd.	Adarsh Natarajan	An Affordable, 'Point-of-sample collection' Cervical Cancer screening tool
122	IKP- Knowledge Park	6	Sascan Meditech Pvt. Ltd.	Subhash Narayanan	Development of Oral Cancer Screening Camera
123	IKP- Knowledge Park	6	Pathshodh Healthcare Pvt. Ltd.	Navakanta Bhat	Development of Handheld Device for Glycated Hemoglobin and Albumin Sensing
124	IKP- Knowledge Park	7	ConnViva Technologies	Mandar Gadre	Wearable and Implantable Sensors for Connected Health
125	IKP- Knowledge Park	7	Amitava Das	Amitava Das	Novel diagnostic kit for Cysteine
126	IKP- Knowledge Park	7	B. Srinivasan	B. Srinivasan	Affordable Maxillofacial Prostheses
127	IKP- Knowledge Park	8	EnziBeta Biotech. Pvt. Ltd.	Prashant Gaur	Enzymatic Production of Betaine
128	IKP- Knowledge Park	8	Ashis Kumar Mukherjee	Ashis Kumar Mukherjee	Development of a cost-effective, novel antithrombotic

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					anticoagulant herbal drug and standardization of its biomarker assisted quality control
129	IKP- Knowledge Park	8	Theranos Lifesciences Pvt. Ltd.	Shibichakravarthy Kannan	Microfluidics chip based point of care medical device for detection and enumeration of circulating tumor cells
130	KIIT-TBI	4	Shrikant Mishra	Shrikant Mishra	Recombinant Enabling MDR Platform
131	KIIT-TBI	4	SkinCurate Research Pvt. Ltd.	Debdoot Sheet	Multispectral Optical Imaging and Computing Technologies for Realtime In situ Functional Characterization and Monitoring of Cutaneous Wound Healing Progression
132	KIIT-TBI	5	Luna Goswami	Luna Goswami	Development of De-metalizer Kit from Biopolymers for Efficient Removal of Heavy Metal Ions from Contaminated Water Especially of the Mining Areas
133	KIIT-TBI	5	Sureshkumar Singh	Sureshkumar Singh	Development of food colourants and textile dyes from natural pigments of microbial origin
134	KIIT-TBI	5	Biswadeep Das	Biswadeep Das	Multiplexed bead based suspension array for dengue serotyping
135	KIIT-TBI	5	Raghavendra Samantaray	Raghavendra Samantaray	Optically tunable nanobio-sensor for detecting the efficacy of mosquitocidal repellants
136	KIIT-TBI	5	Chaitali Surve	Chaitali Surve	Design And Evaluation Of Novel Formulations Of Some Anti-Cancer Drugs For Metronomic Chemotherapy
137	KIIT-TBI	6	Aparna Rao	Aparna Rao	Tear Dipstick immunoassay for diagnosis of adult primary glaucoma
138	KIIT-TBI	6	Nusrat	Nusrat JM Sanghamitra	Development of a molecular needle as a novel platform for delivery of anticancer drugs

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139	KIIT-TBI	6	Lattice Innovations Pvt. Ltd.	Chayan Chaterjee	Networked Critical Care Monitoring in Low Resource Settings
140	KIIT-TBI	6	Priti Sundar Mohanty	Priti Sundar Mohanty	Point-of-Care Diagnostic Kit for Diarrheal Bacterial Pathogens
141	KIIT-TBI	6	Surajit Bhattacharjee	Surajit Bhattacharjee	Detection and diagnosis of Urinary Tract Infection through development of a rapid and sensitive non-invasive agglutination method
142	KIIT-TBI	7	Avinash Sonawane	Avinash Sonawane	"Development and evaluation of therapeutic efficacy of novel Escherichia coli asparaginase for the treatment of childhood acutelymphatic leukemia"
143	KIIT-TBI	7	Trans Integra Healthcare Pvt. Ltd.	Shushil Choubey	Development and Validation of a Low-Cost Micro device for Point-of-Care Diagnosis of Alzheimer's disease
144	KIIT-TBI	7	SynThera Biomedical Pvt. Ltd.	Nilay Lakkhar	Dental alloplasts made from bioactive phosphate glasses
145	KIIT-TBI	7	Embryo Technologies Pvt. Ltd.	Prateek Jain	Design, prototyping and testing of novel, self-expandable, axially flexible non-vascular stents at one-tenth the cost of similar products
146	KIIT-TBI	7	Visargha Agrisciences Pvt. Ltd.	M. Phanindra	Development of a Genetic Transformation Kit for Plants
147	KIIT-TBI	4	Viravecs Labs LLP	Rohan Kamat	Development of a novel technology for generation of stable transgenic systems with no off-targets
148	KIIT-TBI	8	Smrita Pradhan	Smrita Pradhan	"Development of Economically Viable Products for Microbial & Mammalian Cell culture, Animal Nutrition etc., by RecoveringSilk-Sericin from the Industrial Effluents by Implementing Novel Strategies for Degumming and Recovery"

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149	KIIT-TBI	8	Adit Bioscience Pvt. Ltd.	Anuja Patnaik	Affordable sexed semen technology for successful dairy farming
150	Venture Center	4	Cellzyme Biotech India Pvt. Ltd.	R.Rajkumar	Green Manufacturing of Cephalosporin Antibiotics Using Recombinant Deacetylase
151	Venture Center	4	Swasti Agro & Bioproducts Pvt. Ltd.	Abhay Shendye	Novel Chitosan derivative for building SAR in plants: specifically leaf blight of Pomegranate caused by Xanthomonas sp.
152	Venture Center	4	Aman Sharma	Aman Sharma	To demonstrate Proof of Concept for a novel, non-invasive exosome -based screening (for early detection) cum diagnostic kit for multiple cancers (using one test) utilizing patient derived biofluids
153	Venture Center	4	In DNA Research Labs Pvt. Ltd.	Aditya Phatak	To demonstrate proof-of-concept for an automated clinical analysis and annotation pipeline for NGS based somatic cancer genomic test for diagnosis, prognosis and personalized therapy. This will enable low cost and actionable genomic testing in India.
154	Venture Center	4	Tania Paul	Tania Paul	To develop a novel, cost effective, non- allergic herbal formulation for management of spontaneous bleeding and allied complications in multiple coagulation disorders.
155	Venture Center	4	Molqbits Sensors and Data Pvt. Ltd.	Girish Arabale	Use of Portable Raman Spectrometer for Soil & Minerals Analysis
156	Venture Center	4	Yogesh Badhe	Yogesh Badhe	Direct beta thalassemia carrier detection kit

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157	Venture Center	5	Mother Diagnostic Systems Pvt Ltd	Karthik S.	Design second stage of prototype for Low cost, low dosage Digital X-Ray using TDI sensor
158	Venture Center	5	Visint Healthcare Pvt. Ltd.	Ramesh S Ve	Development of smartphone based eye imaging system
159	Venture Center	5	Sanjay Nene	Sanjay Nene	Production of Ccclodextringlycosyltransferase / CGTase enzyme using a Membrane Cell Recycle Bioreactor (MCRB)
160	Venture Center	5	Milind K. Choudhari	Milind Choudhari	A novel organic and inorganic nano-formulation for rapid wound healing and control of infection
161	Venture Center	5	Croleon Innovation Labs Pvt. Ltd.	Chinmay Deodhar	Innovative scar-free organ retractor for reduced port laparoscopic surgery
162	venture Center	5	Renuka Diwan	Renuka Diwan	Process to produce double haploid parental lines with new, unique, rare genetic combinations using DH technology coupled with a strategy to increase or alter meiotic recombination in the technology demonstration system of mustard
163	Venture Center	5	Shweta Sree Life Sciences Pvt. Ltd.	Guruprasad Kulkarni	Novel process for manufacturing of D-Penicillamine
164	Venture Center	5	Rishi Adhikary	Rishi Adhikary	Development of a point-of-care device for prenatal diagnosis of congenital anomalies
165	Venture Center	6	Crimson Healthcare Pvt. Ltd.	Pranav Chopra	SphinX – Ostomy Management Device
166	venture Center	6	OmiX Research and Diagnostics Laboratories Pvt. Ltd.	Sudeshna Adak	DNA Testing on Disposable Plastic Biochips: A High Sensitivity Platform for Malaria Detection

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167	Venture Center	6	Sensivision Health Technologies Pvt. Ltd.	Jayadeep Unni	Affordable and Safe therapy for Neonates with Hypoxic Ischemic Encephalopathy
168	Venture Center	6	Vanita Prasad	Vanita Prasad	A cost effective and indigenous process of making Anaerobic Granulated Sludge optimized to enable quick start-up and easy operation of UASB in waste water treatment so as to make the process energy efficient, requiring less space while achieving higher COD removal rate and higher yield of Methane at higher loading rates
169	Venture Center	6	H V Srinivas	H V Srinivas	A gonio-camera without a slit lamp
170	Venture Center	7	JC OrthoHeal Pvt. Ltd.	Pankaj Chhatrala	FlexiOH: Breathable, Washable and Lightweight cast immobilization for fractured bone
171	Venture Center	7	Petavista	Manohar Pai	Design and development of sensor based insole for early detection of abnormal plantar pressure distribution in type 2 Diabetes mellitus with peripheral neuropathy
172	Venture Center	8	Adiuvo Diagnostics Pvt. Ltd.	Geethanjali Radhakrishnan	Portable hand held dermascope for real time non-invasive detection and monitoring for skin infections using multi-wavelength UV fluorescence
173	Venture Center	8	Vijay Panchanadikar	Vijay Panchanadikar	System for Accurate Guide-wire Positioning in Orthopedic Surgery
174	Venture Center	8	Lamia Salam	Lamia Salam	An Automated Rehabilitation device for Oral Cancer Patients