



EXHIBITORS PROFILE

DEVICES AND DIAGNOSTICS

1	Achira Labs	ACIX 100	ACIX 100 is a fast, accurate, reliable and cost-effective solution to improve healthcare standards in remote and resource limited settings. It is a table-top instrument, capable of performing and analyzing microfluidics based immunoassays.
2	Accuster Technologies	Mobile Lab	Mobile Lab is Compact Portable Clinical Laboratory in a suitcase having Power Back- Up which contains Biochemistry Analyzer, Centrifuge, Incubator, Data Recorder/Mini Laptop with Patient Data Management Software, Micropipettes and other accessories. It performs 36 tests - LIPID, RENAL, LFT, Electrolytes, Glucose, Hb.
3	C-CAMP and IIT-Madras	Microfluidics based Flow Analyzer	A low-cost flow-analyzer prototype that integrates microfluidics, optics and electronics with the aim of enabling flow analysis in resource-limited settings for applications research, diagnostics and other applications. The technology is validated through cells and blood samples. It has equivalent sensitivity to that of conventional flow analyser. The productization would lead to a robust, stable and low-cost disposable flow cell cytometer.
4	Cutting Edge	SCINTIGLO	A smart, reliable, accurate and economic point of care diagnostic device for quantitative estimation of proteins in urine. The device provides results within 2 seconds and with more than 90 accuracy and reliability.
5	DesignInnova and ICGEB	Affordable Fluorescence Reader for Point-of-Care diagnostics	DesignInnova in partnership with ICGEB, DBT and Turku (Finland) has developed an innovative, indigenous, affordable 'plug-and-play' point-of-care platform capable of running tests from different developers. Its robust solid-state design uses a novel up-converting phosphor technology technique as a detection system.
6	Genomix Molecular Diagnostics	Malaria Rapid Card Test	Genomix Malaria Pf/Pv Antigen Rapid Detection Test Kit is a Lateral Flow Assay based qualitative determination of Malaria <i>Plasmodium Falciparum</i> specific histidine rich protein-2 (Pf HRP-2) and <i>Malaria Plasmodium Vivax</i> specific lactate dehydrogenase (pLDH) proteins in human whole blood specimens. These kits were validated by WHO/FIND/ CDC for their performance.
7	Janacare Solutions	DxPhone -AiNA strip reader	AINA device measures blood glucose, HbA1C, lipids (HDL, LDL, TrG), creatinine and haemoglobin. The device can be used in hospitals for in-patient management, for self-monitoring by patients at home and for general screening by health workers.
8	Pathshodh	AnuPath: multianalyte PoC device	AnuPath is a novel technology based point-of-care medical device for management and early prevention of complications for diabetes, chronic kidney disease, anemia and malnutrition. The handheld medical device utilizes dry test strips for the detection of biomarkers related to respective disease.

9	Robonik India	Automated <i>In Vitro</i> Diagnostic Instruments: FABCA, ELISTA and Autourine	FABCA, ELISTA and Autourine are common use essential instruments in medium and large laboratories. The products have been designed and developed to meet harsh Indian working conditions.
10	TestRight Nanosystems	SpectroSmart	World's smallest spectrophotometer
11	Xcellence in Bioinnovations	RightBiotic	This indigenously developed Point of Care (PoC) device is a small, portable, battery operated instrument and provides results for testing antibiotic sensitivity of pathogens causing Urinary Tract Infection in a ready to use format (in <4 hours as against the usual wait of 3 working days).
12	Exocan healthcare technologies	EXOCAN	Biofluids (blood, urine, saliva) based non-expensive early cancer detection cum diagnosis kit.
13	Vijay Panchandikar	System for Accurate Guide-wire Positioning in Orthopedic Surgery	A system comprising of various jigs and compatible software on various bones both in 2D and 3D formats in order to reduce time of anesthesia and surgery thereby reducing hazardous radiation exposure.
14	Algosurg	3D Surgery Planning Software	XPSI (X-ray based Patient Specific Instrument) is a 3D printable instrument for accurate, time-saving and cost effective knee replacement surgery, all using only two X-ray images of patient's knee.
15	DF3D Creations	Osteo-3D	Cloud based platform for creation of medical models online for pre-surgical planning.
16	Panacea Medical Technologies	Hexapod computer controlled patient couch for LINAC machine	A patient couch with offset load of the patient supported by a Hexapod such that the hexapod is always away from the radiation beam while supporting the full weight in offset mode and allowing the patient to be positioned with precision with respect to the isocentre of the treatment machine. The couch enables clinicians to fine-tune the patient's treatment position in six independent degrees of freedom, thereby aligning the tumour and therapy beam accurately. The position also can be changed dynamically.
17	Cardea Biomedical Technologies and AIIMS	ATOM -Accurate Tele-ECG On Mobile	An Innovative, HighEnd, Palm Sized, Single Lead ECG Display Device for Ambulatory and Long term rhythm monitoring for on the go Applications. The device is one of the smallest, yet the most powerful, high definition, simultaneous, TRUE 12 lead ECG system for smart phones at global level

18	Monitra	SMART MCT	SMART MCT is a completely lead-free wireless bio-potential sensor with built-in intelligence platform that allows detection of heart rhythm disorders in real-time. The technology is designed to overcome the shortcomings of all conventional and late-generation devices, including patient compliance, monitoring duration, signal integrity and diagnostic accuracy, and real-time interaction with health care providers.
19	Sascan Meditech	Oral Cancer Screening Camera	A hand-held imaging device for screening and detection of oral cancers. The device has the potential to identify the grade of cancer in real time with the help of an algorithm developed by correlation of pathological data with image intensity ratios.
20(a)	Periwinkle Technologies	Portable TransVaginal Digital Colposcope (TVDC)	Trans-Vaginal Digital Colposcope (TVDC) is a system that consists of a pencil camera which transfers the images and videos captured to a smartphone and a cloud-enabled smartphone app. It enables remote visual inspection with acetic acid (rVIA) of cervical cancer wherein remote experts screen the visual artefacts for diagnosis.
20(b)	Periwinkle Technologies	BhramarHealth: A Responsive Care Platform	BhramarHealth is a Responsive Care Platform that can collect data from sources such as sensors/ diagnostic devices, information systems, and human interfaces to facilitate interventional actions for the caregiver "end points".
21	Indian Institute Of Technology, Gandhinagar and Arogya MedTech	MindEye	A low-cost, portable, easy-to-use, eye-tracking device integrated with computerized cognitive tests for early diagnosis of dementia. The tool may be used at community level using big-data analytics in cloud under a highly affordable software as a service model
22	Terra Blue Exploration Technologies	Tjay - An Innovative Solution for Prediction & Management of Epilepsy	Tjay is the first of its kind holistic management solution for epilepsy. It consists of a wearable and an app for people with epilepsy (PWE) and a powerful analytic platform for doctors and healthcare professionals.
23	JC OrthoHeal	FlexiOH	FlexiOH is a breathable, washable and lightweight cast that gives ultimate comfort while being enough rigid to immobilize bone or joint like conventional casts.
24	PSPR 3D Prosthetic Technologies	Affordable, Innovative and Customized Below-knee Prostheses using 3D Printing Technologies	PSPR-3D-Tech is engaged in development of technology and manufacturing of affordable below-knee prosthesis, innovative reverse engineering and 3D printing technologies enabling high level fit for greater comfort and strength.

25	Aarna Biomedical Products	Poorti kit: Post-mastectomy breast prosthetics	The product is an affordable and holistic post-mastectomy kit comprising one external pre-made light weight silicone medical grade (CE certified) breast prosthesis (available in different sizes and shapes as per the choice of patient), two pocketed brassieres (available in different sizes and colors), two prosthesis covers, one prosthesis holder, information & usage manual and an outer waterproof kit which accommodates all the aforementioned components discreetly.
26	Pradin	FetalMom	Fetal Electrocardiogram and Uterine Activity signal extraction from maternal electrocardiogram eliminating the need for use of conventional transducers by acquisition of transabdominal ECG to separate fetal ECG and uterine contractions by a novel method.
27	Sohum Innovation Labs	Sohum - Technology for Newborn Hearing Screening	Sohum is a hearing screening device for neonates. The device uses Brainstem Evoked Response Audiometry (BERA), the gold standard technology with high sensitivity and specificity in an innovative way with an easy-to-use interface to meet needs of the system.
28	Windmill	NeoBreathe™	NeoBreathe™ is the world's first foot operated newborn resuscitator. Novel features of the product include: 2 handed mask holding, real time pressure monitoring, enhanced pressure safety, PEEP, built-in suction, oxygen regulation, reusability and autoclavability. The product brings together everything needed to save the life of an asphyxiated newborn.
29	Sensivision Health Technologies	System to diagnose, treat and prognosticate Hypoxic Ischemic Encephalopathy (HIE) in Neonates	The device brings to market an effective and accessible solution to address the high number of mortality and morbidity associated with HIE. The device while complying with all the global safety standards is tailored for use in as diverse situations as inside an Ambulance to inside a Neonatal Intensive Care Unit (NICU).
30	Forus Health	ShishuNethra	The product is a low cost wide field eye-screening device for premature and term infants. It includes the device and software infrastructure to allow for advanced post-processing, automated diagnostic tools, and remote diagnosis capabilities.
31	Adiuvio Diagnostics	Skinscope	Skinscope is a portable non-invasive device, which can detect and monitor any SSTI ranging from diabetic foot ulcer, burns, pressure ulcers, surgical sites' infections etc. within 2 minutes, aiding doctors by providing information on colonizing pathogen, pathogenic load and wound closure rate.

32	Coeo Labs	VAPCare	An intelligent secretion and oral hygiene management system to reduce risk of acquiring Ventilator Associated Pneumonia (VAP). It is a holistic system that provides targeted suctioning of the secretions in order to reduce the risk factors for development of VAP in intubated ICU patients.
33	Jeevtronics	Hand-Cranked Defibrillator	World's first dual powered, electricity and hand cranked defibrillator. It is expected to be useful in regions without reliable electricity supply. PHC/ CHCs, Army, Security forces, ambulances, etc could also benefit from this immensely.
34	Genrich Membranes	Oxygen Enrichment Unit (OEU)	Innovative, affordable and accessible Oxygen Enriched air Unit (OEU) based on hollow-fiber membrane technology for oxygen therapy. The device is as important as pills for patients suffering from chronic lung diseases (COPD, Asthma) and pre-term babies with respiratory distress syndrome. The unit requires minimum maintenance and provides 27-35% oxygen enriched air.
35	Lattice Innovations	Networked critical care monitoring system for low resource settings	A networked patient monitoring system to relay vital patient information to offsite, remote specialists who can provide necessary treatment advice. The design of the product allows it to be used in a plug-and-play manner, without requiring investment in costly IT infrastructure.
36	Alpha Corpuscles	Single-use safety syringe	Safety Syringe offers controlled needle retraction after injection without any intervention from the user, rendering the syringe disabled. Besides clinical use, this is also available for prefilled drugs and vaccine with reduced cold chain burden. The syringe is available in various sizes, is low cost and spatter proof.
37	Yostra Labs	Sparsha	Sparsha is a medical device used for the diagnosis of Diabetic Peripheral Neuropathy. Sparsha can perform Tactile Threshold Test, Vibration Perception Threshold Test, Thermal Perception Threshold Test and Infrared Thermometry. Sparsha is battery operated and can connect with a smartphone by bluetooth and send the diagnostic report via email.

INDUSTRIAL BIOTECHNOLOGY

38	India Glycols & DBT-ICT Centre for Energy Biosciences	10 ton Lignocellulosic biomass/day processing plant to produce about 3000 Litre ethanol/day	India's first multi feed stock continuous flow plant, converting agricultural lignocellulosic residues Bagasse, Rice Straw, Wheat Straw, Bamboo, Cotton Stalk, Corn Stover, Wood chips etc. into alcohol with optimum product yields through novel indigenous technology. Biomass plant was inaugurated in April 2016 by Dr Harsh Vardhan, Union Minister for Science and Technology & Earth Sciences at Kashipur, Uttarakhand.
39	ERAM Scientific	e-Toilet	eToilet is an unmanned and automated electronic toilet developed by Eram Scientific. It is integrated with a waste treatment technology called NEWgenerator™ developed by University of South Florida, which allows for sustainable recovery of nutrients, energy, and water at the point of disposal.

40	GPS Renewables	BioURJA	BioUrja is a modular, compact and customizable anaerobic solid waste digester to handle various organic wastes. Easy to use, automatic, highly efficient and low footprints are some features that have helped BioUrja achieve worldwide recognition.
41	Science for Society	Solar Conduction Dryer	Solar Conduction Dryer is an electricity free solar powered food dehydrator that reduces moisture content in agri/ animal produce so that farmers and rural women can preserve seasonal produce up to 1 year without using any chemicals and earn additional income through the sale of dehydrated products.
42	Oriental Aquamarine Biotech India	Organic Nitrifying and Denitrifying Bioreactor for Recirculating Aquaculture Systems (RAS)	Integrated organic nitrifying and denitrifying bioreactor for Recirculating Aquaculture Systems (RAS) with a bacterial consortium delivery system that converts: Ammonia and ammonium ion to nitrite, Nitrite to nitrate, Nitrate reduced to molecular nitrogen. Nitrification and denitrification in same system is the novel component.
43	Thermax	Anaerobic Membrane Bioreactor (AnMBR)	Anaerobic Membrane Bioreactor technology has been developed at laboratory scale and bench scale operations for wastewater treatment. Results achieved are comparable with aerobic membrane bioreactors with treated effluent meeting all discharge norms.
44	We Innovate	SILVOCLEAN	Silvoclean is an all purpose surface sterilization spray made up of a proprietary formula consisting of silver nanoparticles. The spray is effective against bacteria, spores and viruses, twice effective than the current sterilisation sprays, 10 times safer than the current surface sterilisation agents.
45	Green Pyramid	Sophorolipid based vegetable wash (Evergreen & Bioclean)	The product is a sanitizer for fruits and vegetables. This formulation can be used by farmers and exporters to increase the shelf-life of their fruits and vegetables multi-fold times. This unique 100 organic formulation removes 99% of pesticides, harmful chemical residues, micro-organisms, pathogens, dust, soil etc.
46	A. P. Organics	Gamma Oryzanol and LysoLecithin	Gamma Oryzanol, a natural nutrient extracted from Rice Bran Oil is helpful in managing Cholesterol. Calcium Soap of Rice Bran Lysolecithin is helpful in increasing milk yield and Fat content of milk.
47	Aspartika Biotech	Value added products from wastes/ by products of palm oil mills and silk reeling industries	Of the total raw silk produced, 75% is discarded as waste silkworm pupa rich in omega-3-fatty acid and proteins. In Oil palm industry, for every 1 kg of oil, 3.45 kg of waste is generated. These wastes can be used to develop valuable products, such as nutraceuticals, poultry feed and aqua feed.

48	Cellzyme	Green Manufacturing of Cephalosporin Antibiotics Using Recombinant Deacetylase	A cost-effective technology for green manufacturing of antibiotics using a proprietary enzyme. Technology has an impact on energy, environment, regulatory and productivity. Economic benefits arise from lowering the energy costs, chemical savings etc.
49	Nagarjuna Fertilizers & Chemicals	Sustainable and safe enzymatic technology platform for rare sugars	The rare sugar technology is a proprietary process used to produce natural rare sugars economically. The three sugar products are Allulose (trademarked as Honeytose), Isomaltulose (trademarked as Caneose) and Trehalulose (trademarked as Nectarose). The process utilizes protected enzyme and is compatible with range of feedstocks- corn, cane, beet etc. making the production scalable.
50	Affigenix Biosolutions	Trypsin clearance assay kit	Anti-trypsin antibodies and immunoassays for monitoring trypsin cleavage in Biosimilar and Biologicals.
51	Embio	Process optimization for conversion of R-PAC to L-Norephedrine	The technology is aimed at converting a chiral alpha-hydroxy ketone to chiral amino alcohol by using a transaminase, using amine donor isopropylamine, which in turn is converted to acetone. The alpha hydroxy ketone R-PAC is a chiral intermediate coming from yeast whole cell biotransformation. The transaminase is expressed in <i>E.coli</i> and the transamination is also a whole cell biotransformation.

DRUGS & THERAPEUTICS

52	Virchow Biotech	TULY™	TULY™ is a purified and sterile recombinant product of the enzyme urate oxidase, which is generally labelled as rasburicase. It is produced by a genetically modified <i>E.coli</i> strain. The cDNA coding for rasburicase was cloned from a strain of <i>Aspergillus flavus</i> .
53	NovaLead (formerly VLife Sciences)	Novel topical formulation for treatment of inflammatory skin diseases	The product is a novel topical formulation of existing oral anti-parasitic drug/s which is re-positioned for treatment of inflammatory skin diseases like Psoriasis.
54	Zumutor Biologics (formerly Theramyt Biologics)	Fucose Knock out technology platform in CHO S cell line for improved Biotherapeutics	Glyco-engineered antibody expressed in genetically modified mammalian CHO cell line platform with impaired glycan biosynthetic pathway. The modified CHO cell line is the unique platform technology .
55	CyCa OncoSolutions	A molecular needle as a novel platform for delivery of anticancer drugs	A versatile nontoxic, high speed, high precision molecular machine CyCa delivery device (CyCa-dd) that can carry molecular cargoes directly into living cells. It has the potential to transform drugs from toxic to specific, which will reduce the dose and side effects of anticancer drugs thereby improving quality of life for patients.

AGRICULTURE

56	Swasti Agro & Bioproducts	Preventing diseases of plants: XanSil and BioAvert	The company has developed vaccines and healthcare system for plants which can be delivered to the farmer through their android app "Happy Crop"
57	Vel Natural Fibers	Method for extraction of silk grade banana fiber	The technology extracts silk grade uniform single filament yarn. The shelf life of the extracted fiber is more than 20 years.
58	CisGen Biotech Discoveries	ParvoCure	ParvoCure is an enteric protected oral tablet to treat or prevent Parvoviral enteritis in dogs. The tablet contains >100,000 HI units of anti-parvoviral antibodies raised in chicken and formulated in a way that the active ingredient released in intestine are antibodies that neutralize the virus, thereby curing the disease.
59	Healthline	SeriCell	SeriCell is a silk protein based cryo-preservative medium to sustain viability and motility of semen to enhance success rate of artificial insemination.
60	Rope Production Centre	Value addition and waste utilization in banana pseudostem	Products developed by the company include: a) Banana Pseudo stem rope cutting machine b) Automatic Rope making machine c) Power rope machine – 0.5hp motor (rope only) d) Power rope winding machine- 1hp motor (rope and winding)
61	Tea Research Association and Varsha Bioscience and Technology	Development and promotion of local fungal strains of tea ecosystem for the management of tea pathogens and insect pests	Three biological control agents BCAs namely, <i>Trichoderma harzianum</i> , <i>Beauveria bassiana</i> and <i>Metarhizium anisoplae</i> are indigenous isolates, developed from the tea ecosystem of West Bengal. It is proven that the efficacy of these isolates is superior to any outsourced isolates other than tea ecosystem.
62	K N Biosciences	Fermentation technology for entomopathogenic nematode (EPN) production	The technology is aimed at developing a commercial, cost effective and ecofriendly bioproduct formulation with Entomopathogenic nematodes (EPN), <i>Heterorhabditis indica</i> , and <i>Steinernema carpocapsae</i> that can infect white grubs and various types of soil insects, including larval forms of butterflies, moths, beetles, flies, adult crickets and grasshoppers.
63	Tata Chemicals and Amrita Institute of Nanosciences	Micronutrients loaded on nanosilica: Boosting crop health and yield	Nanotechnology based zinc micronutrient formulation for delivery of zinc to crops through foliar applications. The product shows yield improvement and is either at par or at times superior to current market benchmark (EDTA-Zn).