

TBI REPORT

Annexure V

Progress Report of the last Financial year under report

A. NAME OF CEO OF THE TBI

CONTACT DETAILS: Dr. J. Surya Kumar

Address : CEO, SSIIE-TBI, C.V. Raman Block,
School of Engg. & Technology, SPMVV, Tirupati.
Phone : 0877 2284588
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E-mail : ceo.spmvv@gmail.com
Mobile : +91- 8056022121, +91- 9500680101
Website : www.spmvv-tbi.com

B. INFRASTRUCTURE AND FACILITIES

1. Date of sanction of TBI by DST and date of receipt of funds
Date of sanction of TBI by DST: 22.06.2017
Date of sanction of 1st instalment of funds: 22.06.2017
Date of sanction of 2nd instalment of funds: 28.02.2019, Receipt of funds: 16.03.2019
Date of sanction of 3rd instalment of funds: 31.12.2020, Receipt of funds: 02.01.2021
Date of sanction of 4th instalment of funds: 27.08.2021, Receipt of funds: 14.12.2021
2. **Status of TBI Building Construction / Renovation as proposed earlier**
Renovation and establishments proposed earlier completed. All payments were done.
3. **Infrastructure and facilities already created in thrust areas and yet to be created with time frame and likely cost.**
 - a. Procurement of all the proposed equipment completed.
 - b. Delivery and Installation of the ordered equipment is done.
 - c. Payments for all the equipment done.
4. **Capacity utilization of the installed major equipment's/facilities (in percentage) and quantum of revenue earned if any through its utilization by incubatees / industry.**
The equipment's mentioned below are currently being used on regular basis by the incubatees

S.No.	Equipment	Usage (%) *
1	Universal Testing Machine	10
2	Hardness Testing Machine	10
3	Torsion Testing Machine	10
4	Impact Testing Machine	5
5	Fatigue Testing Machine	5


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6	Nanospectrophotometer	15
7	BOD incubator	5
8	Laser engraving machine	10
9	Clean Room	10
10	Microscopes	10
11	RT-PCR	10

The rate chart for the usage of equipment is prepared and circulated to colleges and industries in Andhra Pradesh.

*Note: Quantum of usage of equipment's reduced due to the Covid 19 pandemic effect

Life Science Lab usage charges* :

S. No.	Name of the Equipment	Charges Proposed (Rs.)			Remarks
		For SPMVV	Incubatee / Academia Outside SPMVV	Industry / Others	
1	CKX53 Inverted Fluorescence Microscope	150	300	500	Per Sample
2	Denovix DS 11+ Nano Spectrophotometer	50	100	200	Per Sample
3	Liquid Nitrogen	30	50	70	Per Litre
4	Invi-Trinocular Microscope (only soft copy)	50	100	200	Per Sample
5	Class 10000 Clean room with Class II Type B2 biosafety cabinet	250	500	1000	Per Hour
6	Eppendorf – galaxy 170 s CO2 Incubator	50	100	200	Per sample/Per month
7	Remi CI-10 Plus - BOD Incubator	50	100	200	Per sample/per month
8	RT-PCR	300	400	500	Per sample


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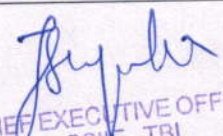
Engineering Lab Usage charges* :

S. No.	Name of the Equipment	Charges Proposed (Rs.)			Remarks
		For SPMVV	Incubatee / Academia Outside SPMVV	Industry / Others	
1	Tension test including ultimate stress, proof stress and percentage elongation				Per Sample
	Upto 12mm	680	720	800	
	More than 12mm	850	900	1000	
2	Brinnell Hardness test	425	450	500	Per Sample
3	Rockwell Hardness test	425	450	500	Per Sample
4	Impact Test	425	450	500	Per Sample
5	Torsion Test	425	450	500	Per Sample
6	3D Machine (whichever is higher)				Per sample
	Per Gram	14	16	18	
	Per Hour	120	135	150	

* The rates will be revised later based on the Covid 19 pandemic implications as the usage will be limited if prices are revised.

5.Designation wise details of Manpower/Team Managing day to day operation of TBI

S.No	Name & Designation	Qualification	Specialization
1	Dr. J. Surya Kumar , CEO-TBI	Ph.D, PDF (USA)	Pharmacy
2	Dr. M. Sree Rama Chandra Murthy Incubation Manager	Ph.D, PDF (Japan)	Biotechnology
3	Dr. D. Pragathi, Scientific Assistant (Life Sciences)	Ph.D	Biotechnology
4	Dr.V. Hariharan, Scientific Assistant (IoT)	M. Tech, Ph.D	Mechanical Engineering
5	Ms. Y. Usha, Lab Assistant (Life Sciences)	M. Sc	Biochemistry
6	Computer Operator	MBA	-
7	Lab Assistant –IoT	B.Tech	-
6 & 7 Replacements to be taken			


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6. Support extended by Host institution for TBI (sharing of building, facilities, utilities and other support)

- Space was allocated for TBI in School of Engineering and Technology, SPMVV.
- Host institute is providing the basic facilities and administrative support for smooth functioning of SSIIE-TBI
- SPMVV has provided the HI contribution of Rs.23.33 Lakhs towards 3rd year recurring grant of SSIIE-TBI.
- SPMVV has provided the HI contribution of Rs.48.50 Lakhs towards 4th year recurring grant of SSIIE-TBI

7. Website Creation of TBI

- Website of www.spmvv-tbi.com is operational.
- The Incubatees who wish to apply for incubation can apply online

C. TBI OPERATIONS

1. Mode of selection of Incubatees

- The Incubatees who wish to apply for incubation can apply either by logging into TBI website (SPMVV-TBI.COM) & filling up the form for submission (The status will be updated as it goes through scrutiny) or send the scanned copy of the Incubation application form to the ceo.spmvv@gmail.com and the status will be updated by email.

SSIIE-TBI SOP:

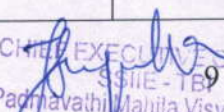
Activity	Process	Timeline
Business Incubation Support to Start ups (open to all technology start-ups)	1.Receipt of applications 2.Preliminary Discussion/ Internal Screening 3. Induction of applicant as an incubatee	* Ongoing (continuous process) * Three weeks (based on mutual convenience- telephone / skype / personal meeting) * Two weeks/NDA signing

2.0 Number of existing incubatees, their area of work and performance (23 Incubatees)

S. No.	Name of the Incubatee	Name of the Venture promoted	Incubation Start Date	Product Area	Outcome (performance)
1	Mr. N. Santosh Kumar	Sanv Innovative Solutions PVT Ltd	28/03/2022	IoT Ventomotto 24.7 : Renewable Electricity generation	Prototype under development
2	Mr.Anand Krishna	Company not registered	28/02/2022	IoT Development of Apps for Various operating System	Prototype under development
3	Mr. Raaja Suresh.	Ekalavya Innovative Solutions	20/02/2022	IoT & Engineering Development and Manufacturing of	Prototype under development

		Private Limited		Solar Powered Smart E-Banners	
4	Ms. K. HariPriya	Company not registered	20/01/2022	IoT Development of IoT based micro climate regulation device for monitoring system for crops and pests	Prototype developed
5	Mr. M. Munishankar	Company not registered	20/01/2022	IoT Development of Efficient Low cost IoT based Fertilizer Consumption and Monitoring System for Mulberry Plants.	Prototype developed
6	Dr.K.Subhakar	Prontgen Pharma	09/09/2021	Drugs & Healthcare Identification and Extraction of Novel Oncology Herbal Molecules	Product under development
7	Dr. M.S.R.C. Murthy	S.S.K.K Research Labs Pvt.Ltd	09/09/2021	Healthcare Development of mRNA based vaccines	Product under development
8	Ms. Sufiya Sulthana & Syed Bilal	Company not Registered	19/02/2021	Engineering Manufacturing of Armatures and Field Coils, Rotors and other machine related accessories	Product under development
9	Dr.S. Kalpana	Company not registered	19/02/2021	Agriculture Development of Biopesticides using Insect Growth Regulators as an alternative to chemical based pesticides	Product under development
10	Ms.BNJ. Manvika	Company not registered	18/02/2021	IoT Food Delivery Platform Development between Food Consumers and Food Providers	Product under development
11	Mr Manpreet Jivin	Company not registered	18/02/2021	AI Interactive School Notes platform (based on AI) for teachers and students for remote learning.	Product under development
12	Mr. Prakash Kasani	M/s. Drones	09/11/2020	IoT & Engineering	Product


		fusion - LLP https://dronesfusion.com/		Customized Drones	developed, In scale up mode
13	Mr. Rahul Gawande	Orbicular Pharmaceutic al Technologies -Pvt. Ltd https://orbicularco.in/	09/11/2020	Drugs & Healthcare Novel formulation for Psoriasis	Product under development
14	Mr. Sai Goutham	Silky poly Consultation services	09/11/2020	Eco Technologies PM anti microbial nano fibrous aromatic filtration systems from silk waste	Product under development
15	Dr. E. Janardhan Yadav	M/s Krijan Biotech - Pvt Ltd https://krijanbiotech.com/	05/09/2020	Drugs & Healthcare Development of Rapid detection test kit for sheep and goat pox disease in small ruminants	Product under development
16	Dr. Vasavi Thirumalanadhuni	Fourth Apple Biosciences	10/08/2020	Drugs & Healthcare Development of novel enteric coating material for oral delivery of insulin	Product under development
17	Mr. Mansoor Ali	Codeon Technologies - Pvt. Limited	13/07/2020	IoT & Engineering Customized services	Prototype developed, In scale up mode
18	Mr. Pavan	M/s. Pavan empower solutions - Proprietorshi p firm	29/08/2019	IoT Agriculture Solar Sprayer, Healthcare Device	Product developed, Marketing started in small way.
19	Mr. Venkata Kamesh	M/s. Sri Vignan Technologies (www.srivignantech.com) - Partnership firm	30/04/2019	IoT Voice Controlled Drones	Product developed, Marketing started in small way.
20	Mr. B. Prakash	Nexgen Farming Machines - Pvt. Limited	30/04/2019	Agriculture and Food Technology Multipurpose single wheel tractor	Product developed under evaluation


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					Marketing started in small way.
21	Dr.Jonnalagadda Niranjan / Dr.Bosco Henriques	M/s. JNN Kalam Creations - Proprietorship firm	07/01/2019	Eco Technologies Commercial cultivation of Indigofera tinctoria and Oldenlandia umbellata and preparation of dye	Product under development
22	Ms. B. Ramadevi	M/s. Sriram Herbal Industries – LLP	07/01/2019	Eco Technologies Formulation and evaluation of poly herbal mosquito repellent cream & sanitary napkins	Product developed . Marketing started in small way.
23	Mr. P. Venkata Krishna Rao	M/s. KDNL Millet foods – Proprietorship firm	29/08/2018	Agriculture and Food Technology Rollable Millet Flour	Product released into market (Milletman ®) Marketing started in small way.

**2.1 Number of incubatees, their area of work and performance since inception
(34 Incubatees)**

S. No	Name of the Incubatee	Name of the Venture promoted	Incubation Start Date	Product Area	Outcome (performance)
1	Mr.N.Santosh Kumar	Sanv Innovative Solutions PVT Ltd	28/03/2022	IoT Ventomotto 24.7 : Renewable Electricity generation	Prototype under development
2	Mr.Anand Krishna	Company not registered	28/02/2022	IoT Development of Apps for Various operating System	Prototype under development
3	Mr. Raaja Suresh.	Ekalavya Innovative Solutions Private Limited	20/02/2022	IoT & Engineering Development and Manufacturing of Solar Powered Smart E-Banners	Prototype under development
4	Ms. K.HariPriya	Company not registered	20/01/2022	IoT Development of IoT based micro climate regulation device for	Prototype developed


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				monitoring system for crops and pests	
5	Mr. M. Munishankar	Company not registered	20/01/2022	IoT Development of Efficient Low cost IoT based Fertilizer Consumption and Monitoring System for Mulberry Plants.	Prototype developed
6	Dr.K.Subhakar	Prontgen Pharma	09/09/2021	Drugs & Healthcare Identification and Extraction of Novel Oncology Herbal Molecules	Product under development
7	Dr.M.S.R.C. Murthy	S.S.K.K Research Labs Pvt. Ltd	09/09/2021	Healthcare Development of mRNA based vaccines	Product under development
8	Ms. Sufiya Sulthana & Syed Bilal	Company not registered	19/02/2021	Engineering Manufacturing of Armatures and Field Coils, Rotors and other machine related accessories	Product under development
9	Dr. S.Kalpana	Company not registered	19/02/2021	Agriculture Development of Biopesticides using Insect Growth Regulators as an alternative to chemical based pesticides	Product under development
10	Dr. Swetha Kumari	Company not registered	19/02/2021	Waste Management Development and Manufacturing of Sebozo silk crafts based on Sericulture	Product under development
11	Ms.BNJ. Manvika	Company not registered	18/02/2021	IoT Food Delivery Platform Development between Food Consumers and Food Providers	Product under development
12	Mr Manpreet	Company not	18/02/2021	AI	Product under

	Jivin	registered		Interactive School Notes platform (based on AI) for teachers and students for remote learning.	development
13	Mr. Prakash Kasani	M/s. Dronesfusion - LLP https://dronesfusion.com/	09/11/2020	IoT & Engineering Customized Drones	Product developed, In scale up mode
14	Mr. Rahul Gawande	Orbicular Pharmaceutical Technologies - Pvt. Ltd https://orbicular.co.in/	09/11/2020	Drugs & Healthcare Novel formulation for Psoriasis	Product under development
15	Mr. Sai Goutham	Silkypoly Consultation services	09/11/2020	Eco Technologies PM anti microbial nano fibrous aromatic filtration systems from silk waste	Product under development
16	Dr. Shilpa Nayuni	Company Not Yet registered (In Process)	03/10/2020	Drugs & Healthcare Capture and Characterization of circulating tumor cells for cancer diagnosis	Product under development
17	Dr. E. Janardhan Yadav	M/s Krijan Biotech - Pvt Ltd https://krijanbiotech.com/	05/09/2020	Drugs & Healthcare Development of Rapid detection test kit for sheep and goat pox disease in small ruminants	Product under development
18	Dr. Vasavi Thirumalanadhuni	Fourth Apple Biosciences	10/08/2020	Drugs & Healthcare Development of novel enteric coating material for oral delivery of insulin	Product under development
19	Mr. Mansoor Ali	Codeon Technologies - Pvt. Limited	13/07/2020	IoT & Engineering Customized services	Prototype developed, In scale up mode

20	Mr. Pavan	M/s. Pavan empower solutions - Proprietorship firm	29/08/2019	IoT Agriculture Solar Sprayer, Healthcare Device	Product developed , Marketing started in small way.
21	Mr. Venkata Kamesh	M/s. Sri Vignan Technologies (www.srivignan.tech.com)- Partnership firm	30/04/2019	IoT Voice Controlled Drones	Product developed, Marketing started in small way.
22	Mr. B. Prakash	Nexgen Farming Machines - Pvt. Limited	30/04/2019	Agriculture and Food Technology Multipurpose single wheel tractor	Product developed under evaluation Marketing started in small way.
23	Mr. Y. Babu Chowdry	M/s. MedArogya (www.medarogy.com/) - Pvt. Limited	30/04/2019	IoT & medicine MedArogya	Product developed Marketing started in small way.
24	Prof. V.V.Lakshmi	Sri Dharani Agrotech Pvt Ltd BIG Grantee	2019 March	Keratinase enzyme production from feather waste	Product developed
25	Dr. Suprava Chakraborty/ Dr. Sumit Verma	Company Not Yet registered (In Process)	07/01/2019	Eco Technologies Portable Solar Medical incinerator with waste heat recovery facility	Product under development
26	Ms.P.Navya Geetha / Mr. P.Madhu	M/s. Eswar Biotech - Pvt. Limited	07/01/2019	Agriculture and Food Technology Tissue culture of Banana Variety Amruthapani & Red Banana	Product under development (laboratory studies ongoing)
27	Mr.G.Chandra Sekhar Naidu & Dr.G.Mahitha	M/s. Divya-antibiotic – LLP	07/01/2019	Agriculture and Food Technology Herbal Nematicide for major Agricultural and Horticultural Crops	Product developed Marketing started in small way.
28	Dr.Jonnalagadda Niranjan / Dr.Bosco Henriques	M/s. JNN Kalam Creations - Proprietorship firm	07/01/2019	Eco Technologies Commercial cultivation of Indigofera tinctoria and Oldenlandia umbellata and preparation of dye	Product under development
29	Ms. B. Ramadevi	M/s. Sriram Herbal	07/01/2019	Eco Technologies Formulation and	Product developed . Marketing started in

		Industries – LLP		evaluation of poly herbal mosquito repellent cream & sanitary napkins	small way.
30	Mr. P. Venkata Krishna Rao	M/s. KDNL Millet foods – Proprietorship firm	29/08/2018	Agriculture and Food Technology Rollable Millet Flour	Product released into market (Milletman ®) Marketing started in small way.
31	Mr. Anil Kumar reddy Konepalli	M/s. Techieplant (www.airseat.in) - Pvt. Limited	29/08/2018	Health care devices Air seat	Products being sold through Amazon
32	Mr. G. Dheeraj Reddy	M/s. FAE Bikes (http://faebikes. com/) - Pvt. Limited	29/08/2018	App & Transportation Services FAE bikes	App available on playstore, currently operational in Bengaluru and is in scale up mode
33	Dr. S. Rajendranath Reddy	M/s. Renuka Bio Farms (RBF) - LLP	29/08/2018	Agriculture and Food Technology Moringa based food supplements	Prototype development done. Market trial testing ongoing
34	Dr. Chunduri Ram Mohan	M/s. Alyss edusolutions Pvt. Limited (https://www.e- alyss.com/)	29/05/2018	Animation & E- Education Online Learning & Educational portal	Product released to market. Marketing started in small way.


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3. List the available basket of technologies having potential for commercialization and their sources.

IoT device for micro climate regulation in sericulture rearing house
Innovator -M. Munishankar



IoT based temperature and humidity monitoring system to analyze the micro climatic conditions bearing temperature, humidity and day light duration inside the silkworm rearing house.

Cocoon quality parameters play an important role on the quality and quantity of the raw silk reeled .

The variations in the environmental conditions day to day and season to season emphasize the need of management of temperature and relative humidity for sustainable cocoon production.

DHT11 Sensor on Arduino Board have been used for the above construction of IoT device.

IoT device for Pest Forecasting
Innovator-K. HariPriya



The IoT system is cloud based and is designed to reduce the frequent use of pesticides and to predict when the pests appear in order to mitigate the attack of pests.

Proposed system provides disease and pest prediction information so that farmers can quickly control them.

SIM800L GSM/GPRS module is a miniature GSM (Global System for Mobile Communications) modem, which can be integrated into IoT projects.

Pavan Empower Solutions

Founder: Pavan



“Agriculture Solar Sprayer” works based on the “Renewable Energy”. Agriculture solar sprayer is the best option to the farmer who economically challenged and facing electrical problems like load shedding etc. Ideal to spray insecticides, pesticides, fungicides, herbicides in field areas to protect the crop from pest attack. This sprayer have multiple applications, and are widely used in agriculture, horticulture, sericulture, plantations, forestry, gardens.

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COVID-19 Robot

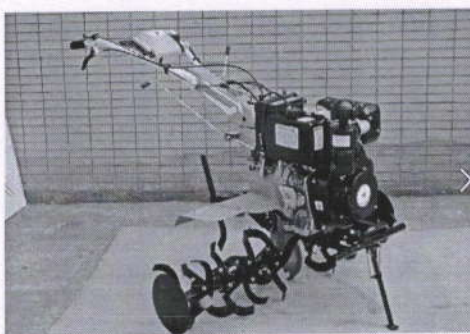
This is a remotely operated robotic vehicle that can be used in hospitals to deliver medicines and food material for Corona quarantined /affected patients without getting near to them. The device has both voice and video transmission system to communicate with the patient



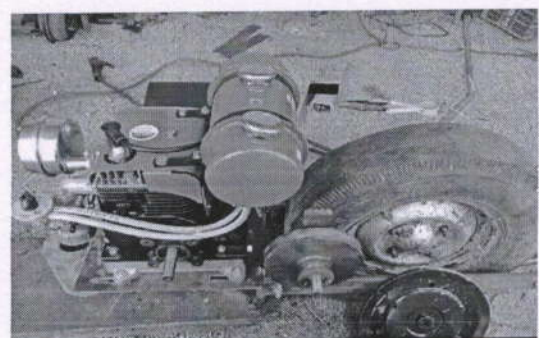
Health Emergency Device

Elderly persons in need of any help, by waving their hand at this device will generate alarm and 5 people anywhere in the world received call on their mobile. This works on motion gesture.

Nextgen Farming



Founder: B. Prakash



Nextgen Farming Machinery are into development of Multipurpose single wheel tractor, automatic agriculture power weeder, semi automatic agriculture power weeder & agriculture mini power weeder in Chittoor, Andhra Pradesh. Many attachments can be used for this single wheel tractor which makes it an economical option.

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Fae bikes: Fast. Affordable. Electric! (www.faebikes.com)



Founder: Mr. G. Dheeraj Reddy

Fae Bikes is the India's first ever electric scooter share service for intra-city commute providing point to point connectivity launched at Bengaluru. They use the state-of-the-art IoT tech which enables to locate and ride a FAE bike with ease using smartphone. Users can reserve the scooters online, pick up and drop off from stations throughout the city. They can easily go up to 55 kmph speed and offer a range of ~70Kms with one full charge. Designed and developed in-house, FAE Spark lets you charge the vehicle in less than 2 hours. Karnataka Innovation and Technology Society (KITS) sanctioned Rs 40 lakhs to the phase 2 of Faebikes.

Techie Plant Online Solutions Pvt Ltd (www.airseat.in)



Founder: Mr. K. Anil Kumar Reddy

The Incubatee has come up with an idea of introducing "Airseat cushions" for motorcycle/ bike which works with interconnected cells filled with air. As air is filled in each cell/pocket, the vibration of the vehicle is reduced to the surface of the seat and the person driving the vehicle will not have any discomfort. Airseat cushions help to distribute the weight throughout the cells and absorbs the vibration from the motorcycle/bike. Airseat cushion is designed to give extreme comfort while driving the bike. The salient features of this Airseat cushions are as follows:

Airseat cushions are made up of high quality and smooth fabric, which helps the rider to sit for a longer time. Easy to use nozzle helps to inflate or deflate the Airseat cushion and they are perfectly crafted for each motorcycle seat. Mesh around the Airseat cushions are designed to let the air out of the seat and reduces the heat generated by the rider.

Airseat cushions come with strong straps to fix on to the motorcycle seat. Airseat cushions are carefully crafted to match all the possible motorcycles. The back of the Airseat cushion has anti-skid material.



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Alyss Edusolutions Pvt Ltd. (www.e-alyss.com)

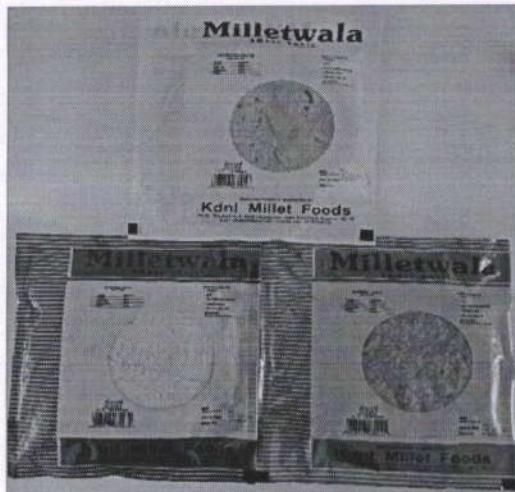
Founder: Dr Chunduri Ram Mohan



Alyss Edusolution (Animation Lab for Young Science Students) is an online learning and educational portal that offers study material, videos, tutorials, question papers, e-books for CBSE, IGCSE students. They bring explanation of science concepts in 3D, HD animations to the schools and homes. They illustrate and simplify these concepts with real life applications and examples. Online testing and question banks provided by Alyss helps teachers evaluate the students' performance on a regular basis. The Alyss content is designed with a goal to empower teachers and recreate scientific curiosity in School students.

Shakthi Millet Foods

Founder: Krishna Rao



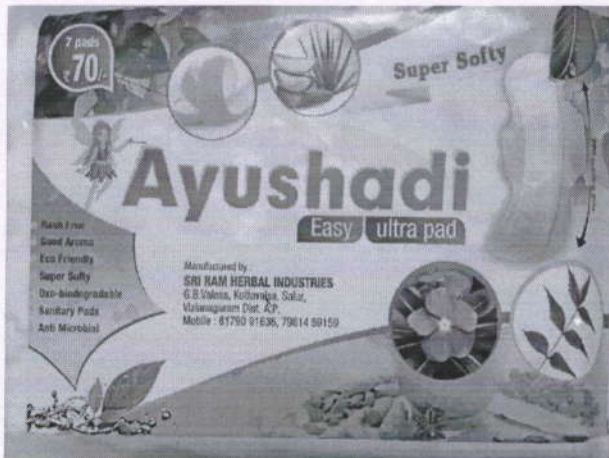
KDNL Millet foods is a start-up focusing on production of Ready to Eat Millet Rotis & Rollable Millet flour. It aims to enhance the millet flour to Rollable form without losing its health benefits. The technology makes it easier to make rotis and spares us the pain of hand hammering. It is currently tying up with Reliance, More and other supermarkets across India.

Millet Rotis


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Sri Ram Herbal Industries

Founder : B. Ramadevi

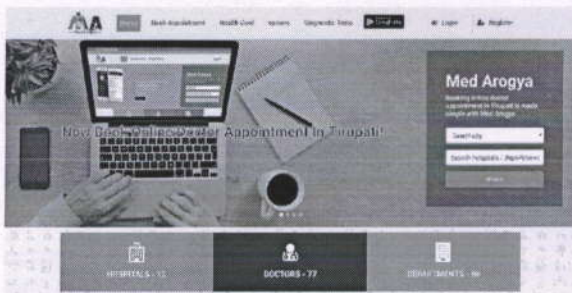


Poor menstrual hygiene can pose physical health risks and has been linked to reproductive and urinary tract infections caused by Bacteria, Fungi and Yeast infections to cancers. To overcome this problem, Herbal sanitary napkin, comprising of composite polymeric material, herbal ingredients, blood absorbing properties with free air flow with antimicrobial properties.

Herbal sanitary napkins are useful for the prevention of infections caused by E.coli, yeast and candida infections which causes pain, itching, irritations, rashes, white-discharge abnormal and irregular bleeding during menstrual period.

MedArogya (www.medarogya.com/)

Founder: Mr. Y. Babu Chowdry



Med Arogya helps people to find online medical services like choosing the right hospital, booking doctor appointment, booking diagnostic center appointment, storing medical records, purchasing online medicines etc. MedArogya is acting as a bridge in between medical care seekers and hospitals. Its currently tied up with hospitals in Tirupati, Guntur and Hyderabad. It is planning to expand its services to cities like Bengaluru.

Sri Vignan Technologies (www.srivignantech.com)

Founder: Mr. Venkata Kamesh



Sri Vignan Technologies is a startup focused on fabricating the drones for different sectors with advanced applications such as educational drones, agriculture drones with different capacities, surveillance drones, weather monitoring drones. Sri Vignan technologies is into product, project development and “practical engineering in the field of design & manufacturing of aeronautical, electrical, electronics, mechanical, software based products. It has developed voice controlled drones which is being tested.


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Eswar Biotech




DIVYA – antibiotic

Herbal Nematicide
An effective remedy to destroy Nematodes



Innovator
Galla Chandra Sekhar
Chittoor Dist. A.P.

Nematodes exist naturally in the environment and feed on various crops. They get into the roots of the plants and we suddenly notice the plants & trees wilting & dying. There will be hardly any indications about the attack by nematodes. As per the solutions available as Nematicides against the disease proved to be less effective. Loss caused by Nematodes to crops in India estimated to be the billions of dollars. Innovator Galla Chandra Sekhar developed a herbal remedy for destroying Nematodes and has been successfully tried out in maize, vegetables, flowers, groundnut etc. The liquid is mixed with sand and spread across the field and watered. It can also be applied by spraying through feeding of the field. Not found effective through Dispersation.



Founder: Ms. Navya Geetha

Eswar Biotech is a startup focusing on Tissue culture of Amruthapani and Red Banana varieties which are not yet commercialized even though there is a huge demand is there for these two particular varieties. Highly Qualitative, free from virus and disease plantlets are being developed. IP strategy is in Documentation.

Amruthapani Tissue culture plants are commercialized.

Founder: Chandra Shekhar Galla




Damaged root system due to Nematode infection

Healthy root system developed 25 days after Nematicide application

Most of the plant parasitic nematodes, feed on plant roots and this feeding process damages root system and also reduces the ability of roots to absorb water and nutrients. This unseen damage by nematodes leads to nutrient deficiency, incipient wilt, stunting, poor yield and sometimes plant death. At present crop rotation, planting nematode resistant varieties, use of natural predators, chemicals are employing to control nematodes. The present invention of HERBAL NEMATICIDE is a potential alternative to overcome all these problems and to control nematodes. Currently the product is in the market.

The salient features of this product are as follows :

- This is based on Herbal technology
- Product does not cause any environmental and human hazards
- This product is mixed with sand and spread across the field. Two litres of Nematicide is enough for one acre of land and the yield increase is found to be 15 to 20%.
- Period of effectiveness is beyond 50 days.
- Improves soil fertility (further investigation ongoing)
- High plant recovery (80% of damaged plants turned healthy).
- Yield increase was high in comparison with existing Nematicides.


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4.Package of value added services offered to start-ups

S.No	Type of Support	Details
1	Mentoring Support	Faculty from Indian and abroad Universities, members from various industries, investors, Govt organisations like NRDC, DRDO, NCL and from organisations like CII, IACC, ISBA etc provide mentoring support
2	Technical Support	Subject related experts and all the above indicated members will provide the required technical support to the incubatees. Organize Boot camps and workshops in multidisciplinary areas.
3	Financial Support Legal and IPR Support	TBI signed MoU with 11 industries and many more are in the pipeline. These industries and some other investors are willing to provide financial support for PoC established products TBI signing MoU with NRDC very shortly to help in patent filing. In addition, legal experts are available in the Host Institution to provide the required support.
5	Networking Support	As CEO and Manager of TBI have worked earlier in various industries, have lot of industry contacts. In addition, all the members indicated above in mentoring support - faculty of various Universities, investors, members of various organisations will provide networking support. TBI is a member of ISBA.
6	Staffing Support	All the staff of TBI (7 full time members) are well qualified – 4 PhDs, 2 PGs and 2 UGs, to provide required day to day support.
7	Co-working Space support	SSIIE-TBI offers finished Office Space (Cubicles) , meeting rooms with conference facility, shared IT infrastructure for the Incubatees apart from access to its 3 labs and other labs in the University
8	Marketing and Promotion support	Innovations are showcased at different events so as to get recognition and possible collaborations Incubatee stalls are being set up to promote Incubatee products
9	Internal monitoring mechanism for startups	Have regular interactions physically and virtually with Incubatees on the progress made and any support needed
10	Any other support, please specify	TBI helps (guidance and review of the application) the incubatees in applying for different grants like BIRAC BIG, National Biopharma Mission, CAWACH, NIDHI PRAYASEE for getting funding based on the core competency of the Incubatee

Fundings applied to support Incubatees

- Applying for Startup India Seed Fund Scheme, NIDHI PRAYAS & NIDHI EIR programs to fund Start-ups .


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5. Support extended by Host institution for TBI i.e. involvement of faculty with entrepreneurs / technology development / other assignments)

- Staff of SPMVV are a part of the Incubatee screening committees apart from being members in advisory, purchase and procurement committees.
- Mentoring in conducting workshops
- The University aims to promote entrepreneurship among women by establishing entrepreneurship development centers to train students and local community women in basic skills and also in locally identified sectors.

The University has following centres to promote entrepreneurship

- Technology Business Incubator (SSIIE-TBI)
- DST- Curie-AI Centre
- SSIIE-WBIF (Women Biotech Incubation Facility)
- Rural Women Technology Park (RWTP)
- TePP OutReach cum Cluster Innovation Centre (TOCIC)
- UN-Women ICT Frontier Initiative
- Institution & Innovation Council (IIC)
- Placement and Career Counselling
- Skill Development Centre
- Lively Hood Business Incubator
- Food/Millet Science Incubator

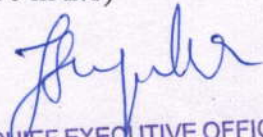
To encourage innovation & Entrepreneurship and also to have synergy, all these centers are brought under one umbrella and “**SPMVV CAMPUS SYNERGY ON INNOVATION INCUBATION AND ENTREPRENEURSHIP**” was formed

6. Give brief on Internal Monitoring mechanism, no. of Governing board/monitoring Committee meetings in last one year

- ✓ Internal meetings are conducted regularly to discuss the progress of SSIIE-TBI and way forward.
- ✓ Advisory meeting was held on 20/01/2022 to evaluate progress of TBI and way forward
- ✓ Members from BIRAC, BHU, NRDC are part of our Advisory committee.

7. Give tabular details of physical (no. of incubatees, product dev, innovations introduced, training, consultancy etc.) achieved for last year.

- There are 34 Incubatees incubated at SSIIE-TBI since inception of which 07 Physical Incubatees are Incubated in Last Financial Year (Details of 34 Incubatees, their area of work and performance is given above in 2.1)


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Details of new Physical Incubatees inducted in FY 21-22 are given below

S. No.	Name of the Incubatee	Name of the Satrtup	Sector of Startup	Brief About Startup	Incubation Start Date
1	Mr.N.Santosh Kumar	Sanv Innovative Solutions PVT Ltd	IoT	Ventomotto 24.7 : Renewable Electricity generation	28/03/2022
2	Mr.Anand Krishna	Company not registered	IoT	Development of APPS for Various operating System	28/02/2022
3	Mr. Raaja Suresh.	Ekalavya Innovative Solutions Private Limited	IoT & Engineering	Development and Manufacturing of Solar Powered SMART E-BANNERS	20/02/2022
4	Ms. HariPriya	Company not registered	IoT	Development of IoT based micro climate regulation device for monitoring system for crops and pests	20/01/2022
5	Mr. M. Munishankar	Company not registered	IoT	Development of Efficient Low cost IoT based Fertilizer Consumption and Monitoring System for Mulberry Plants.	20/01/2022
6	Dr.K.Subhakar	Prontgen Pharma	Drugs & Healthcare	Identification and Extraction of Novel Oncology Herbal Molecules	09/09/2021
7	Dr. M.S.R.C.Murthy	S.S.K.K Research Labs Pvt.Ltd	Healthcare	Development of mRNA based vaccines	09/09/2021

Recognition for TBI Incubatees FY 21-22:

S.No	Name of the Startup	Awards and Recognition
1	Mr. K. Pawan Pavan Empower Solutions	<ul style="list-style-type: none"> Received Rs.7 Lakhs Grant from "Gyan Ventures" Society of IIIT-Sricity AP for development of "Women's Safety Locket "
2	Mr.Raaja Suresh Ekalavya Innovative Solutions Private Limited	<ul style="list-style-type: none"> Received Rs.4 Lakhs Grant from "Gyan Ventures" Society of IIIT-Sricity AP for development of "Solar Powered Smart E- Banners " Published 3 Patents


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Workshop/Webinars Conducted

S.No.	Name of Event/Program	Venue of Event/Program	Date (DD/MM/YY) (When program was conducted)	Duration of Program	No & Name of Beneficiary Startup (Incubatee)
1	Hackathon	SPMVV, Tirupati	02/03/2022	1day	Many Incubatees participated and one of our incubatee got prize
2	Exhibition of Incubatee Products	SPMVV, Tirupati	02/03/2022	1day	Many Incubatees showcased their products. Received wide appreciation from Press and Media.
3	Science Day Celebrations	SPMVV, Tirupati	26/02/2022	1day	Many Incubatees showcased their products
4	National workshop on PRISM Innovator Institution Industry Technology Conclave	SPMVV, Tirupati	22/12/2021	1day	More than 100 Faculty and students of SPMVV were exposed to live sessions from successful Entrepreneurs
5	Entrepreneurship and Leadership Development Program (ELDP)	Online	02/08/2021 – 17/10/2021	10 weeks	25 students from multidisciplinary courses were exposed to live sessions from global experts, industry leaders & entrepreneurs
6	Webinar on “ICT and Entrepreneurship Education at Universities : Opportunities and Challenges for Women”	Online	14/05/2021- 15/05/2021	2 days	200 faculty members/research scholars/incubatees were exposed to live sessions from successful women entrepreneurs


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D. FINANCIAL STATUS

1. Tabular Status of funds released by the sponsors of STEP/TBI and utilization status in the last F.Y. Give justification for under/over utilization both on capital and recurring account

Heads Of Expenditure As Per Sanction Order	Amount Allocated/ Sanctioned During the year 2017-18 (A)	Expenditure incurred (in Rs.) (22nd June 2017 to 31st March 2018) (B)	Amount Allocated/ Sanctioned During the year 2018-2019 (C)	Expenditure incurred (in Rs.) (1st April 20 18 to 31st March 2019) (D)	Expenditure incurred (in Rs.) (1st April 2019 to 31st March 2020) (E)	Amount Received/ Sanctioned During the year 2020-21 (F)	Expenditure incurred (in Rs.) (1st April 2020 to 31st March 2021) (G)	Balance amount as on 31 st March 2021 (in Rs.) (A+C+F) - (B+D+E+G) = (H)	Amount Received/ Sanctioned During the year 2021-22 (I)*	Expenditure incurred (in Rs.) (1st April 2021 to 31st March 2022) (J)	Balance amount as on 31 st March 2022 (in Rs.) (A+C+H+I) - (B+D+E+G+J) = (K)
Manpower											
Chief Executive Officer		4,95,833.00		15,00,000.00	10,86,867.00		18,92,500.00			21,90,500.00	
Incubation Manager		3,85,000.00		9,00,000.00	8,89,350.00		14,24,775.00			10,40,058.00	
Scientific Assistant-I		1,66,000.00		3,60,000.00	3,58,260.00		2,54,100.00			86,129.00	
Scientific Assistant-II	40,20,000.00	1,73,000.00	44,22,000.00	3,60,000.00	3,96,030.00	48,66,000.00	5,69,910.00	68,715.00	53,55,000.00	5,06,179.00	11,32,014.00
Lab. Assistant-I		84,000.00		1,74,643.00	1,96,954.00		2,56,080.00			79,860.00	
Lab. Assistant-II		15,000.00		1,80,000.00	1,84,650.00		2,66,805.00			2,52,760.00	
Computer Operator		70,000.00		1,73,571.00	1,68,087.00		1,33,870.00			38,000.00	
Honorarium		0		59,000.00	65,000.00		0			29,500.00	
Total	40,20,000.00	13,88,833.00	44,22,000.00	37,07,214.00	33,45,198.00	48,66,000.00	47,98,040.00	68,715.00	53,55,000.00	42,22,986.00	11,32,014.00
Other Heads											
Travel	1,00,000.00	75,108.00	1,00,000.00	24,892.00	96,426.00	0	0	3574.00	1,00,000.00	0	1,00,000.00
Utility & Maintenance	2,00,000.00	20,721.00	2,00,000.00	1,78,298.00	2,00,967.00	2,00,000.00	1,79,139.00	20,875.00	2,00,000.00	2,00,000.00	0
Marketing, Networking and Publicity	5,00,000.00	31,368.00	3,00,000.00	4,67,232.00	2,97,694.00	2,00,000.00	1,88,186.00	15,520.00	3,00,000.00	2,36,329.00	63,671.00
Networking & Training Programs	4,00,000.00	17,847.00	8,00,000.00	3,82,153.00	7,96,614.00	0	3,040.00	346.00	2,50,000.00	2,50,000.00	0
Miscellaneous and Contingency	4,00,000.00	2,62,508.00	4,00,000.00	1,36,885.00	4,00,238.00	4,00,000.00	3,80,519.00	19,850.00	3,10,000.00	2,29,609.00	80,391.00
Other Administrative Expenses	28,00,000.00	2,14,160.00	28,00,000.00	31,83,980.00	22,01,848.00	23,00,000.00	22,81,546.00	18,466.00	18,00,000.00	17,96,506.00	3,494.00
Total	44,00,000.00	6,21,712.00	46,00,000.00	43,73,440.00	39,93,787.00	31,00,000.00	30,32,430.00	78,631.00	29,60,000.00	27,12,444.00	2,47,566.00
Excess HI Contribution									42,312.00	42,312.00	
HI Amount Returned		219		1139	640		1302.13	-3300.00			-1752.3
Bank Charges											
Grand Total	84,20,000.00	20,10,764.00	90,22,000.00	80,81,793.00	73,39,625.00	79,66,000.00	78,31,772.00	1,44,046.00	83,57,312.00*	69,77,742.00	13,77,817.70
											Available Balance
											Rs.144,046

*Rs.83,57,312/- was the amount available for expenditure for FY 21-22 including DST released amount of Rs.30,03,266/- + HI contribution of Rs. 48,50,000/- + Rs.3,60,000/- (Revenue) + Carry Forward Amount
 Rs.1,44,046/- which was distributed among the respective heads
 ** Committed Expenditure

2. Give expenditure Vs. revenue deficit for last year. Indicate sources of revenue

Sources of revenue:

- Equipment usage charges
- Organizing Workshops
- Rentals from Incubatees
- Interest
- Consultancy Projects

3. Likely period to attain financial sustainability

1 year from now

4. Table to indicate how the initial funds provided by the Department resulted in augmentation of funds reflected through current worth of assets and cumulative wealth creation by start-ups nurtured by the STEP/TBI.

Revenue generation from startups not yet started

Covid 19 had impacted the revenue generation of our TBI

E. LEGAL STATUS: Whether TBI Registered as a not for profit society /Section 25 Company

- If Yes: Name of the Society and date of registration
**“SPMVV Society for Innovation Incubation Entrepreneurship”
under Andhra Pradesh Societies Registration Act., 2001
dated 24/01/2017**

F. ANY OTHER COMMENT

- Applying for Startup India Seed Fund Scheme, NIDHI PRAYAS & NIDHI EIR programs to fund Start-ups .
- Is a active member of ISBA and ABLE
- Signed MoUs with companies to help in networking, mentoring and if possible fund for some projects
 - ✓ Orbicular Pharmaceutical Technologies Pvt. Ltd, Hyderabad
 - ✓ Arcay Scientific LLC, USA
 - ✓ IMIS Pharmaceuticals, Vijayawada, AP.
 - ✓ Amizen Tech, Hyderabad
 - ✓ Quivercare Pvt Ltd., Bangalore
 - ✓ Solinova Life Sciences, Hyderabad
 - ✓ Aizant Global Analytics Pvt. Ltd.
 - ✓ Prontgen Pharma, Hyderabad
 - ✓ SSKK Research Labs Pvt. Ltd, A.P.
 - ✓ Atal Incubation Centre-Jyothi Institute of Technology, Bangalore
 - ✓ Smarth Mithra, Hyderabad


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Recently developed products of SSIIE-TBI INCUBATEES Showcased at Science day Celebrations in March 2022



'Seritoering' app launched to help farmers

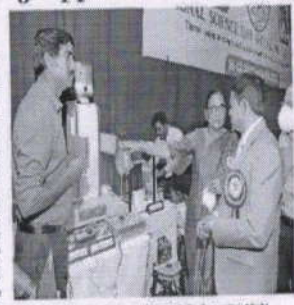
HANS NEWS SERVICE TIRUPATI

The week-long National Science Day celebrations marking the discovery of Raman effect, began in Sri Padmavathi Mahila Viswavidyalayam (SPMVV) on a grand note on Saturday. Along with the University vice-chancellor, the V.C. of Acharya NG Ranga Agricultural University also took part in the event which marked the inauguration of some innovations by students.

Spreading on the occasion, SPMVV V.C. Prof. D. Jayamma said that different departments in the school of sciences and the school of engineering have planned various events till March 6. The departments like Bio-science, Sericulture, Science and technology who have devised some science and technology devices which are useful in the society especially in the agriculture sector, wanted to be the major players for whom such devices must be useful.

The departments will be inaugurating the week-long celebrations. The V.C. complimented the role of faculty in planning various events on the occasion.

Prof. A. Vithalaraman Reddy vice-chancellor of Agricultural University,



SPMVV V.C. Prof. D. Jayamma and Acharya NG Ranga Agricultural University V.C. Prof. A. Vithalaraman Reddy looking at the prototype of COVID-19 robot on Saturday.

He said that the country is having excellent infrastructural facilities and recorded a phenomenal growth in the field of science and technology. Nearly 1,000 innovations have been contributing to the field in the country and there are several achievements.

The country also witnessed excellent growth in the field of agriculture from during COVID for the last two years.

Farmers never stopped the cultivation and 1.6 per cent growth was achieved and sufficient food was ensured in the country. There are 12.5 crore farming families in the country and on an average, the monthly income of each farming family is Rs 10,218. Unless this income increases, they cannot survive.

He along with other dignitaries launched the Seritoering app virtually.

Working national science day celebrations begin at Sri Padmavathi Mahila Viswavidyalayam

- Some more science and technology devices will be launched shortly
- Acharya NG Ranga Agricultural University V.C. says despite pandemic, Indian farmers never stopped cultivation, achieved 3.8% growth

Developed by Sericulture and Computer Science students of the university. The main motto of the app was to benefit the farmers, specially cultivating mulberry plants.

An internet of Things (IoT) device was also launched on the occasion which helps the farmers to save time. A Bar was shown on sugarcane yield and production system to promote the students' ideas to practical application.

Registries Prof. G. M. Manohara, Dean Prof. Nagaraja, Prof. G. Saritha, Prof. Y. S. Jayada and others took part in the event. An exhibition displaying various innovations was also arranged in the venue.

IIIT Sri City releases grants to next set of start-ups

M. Balasubramaniam, Chairman, Board of IIIT governors, and Director Dr. G. Kannabiran with the nine candidates whose start-ups have been selected for funding and mentor support

HANS NEWS SERVICE TIRUPATI

GYAN Circle Ventures (GCV), the Technology Business Incubator of IIIT Sri City, funded under TIDE 2.0 scheme of Ministry of Electronics and IT (MeitY) has selected nine start-ups in the second round out of 60 valid applications received for funding and mentoring support.

Dr. G. Kannabiran, Director IIIT Sri City and Managing Director of GCV, said that each start-up is provided with a grant of Rs 7 lakh to carry out the R&D, testing activities and obtain necessary certification within a grant period of 12-18 months.

These start-ups are focused on creating minimum viable market-ready products with comprehensive support including research infrastructure, access to mentor networks and an opportunity to validate products in Sri City companies. Out of the nine start-ups, three are women entrepreneurs. GCV is also in the process of securing CSR funds from industry to support additional start-ups through grants and seed funding.

M. Balasubramaniam, Chairman, Board of Governors of IIIT Sri City, handed over the grant letters to the start-ups and encouraged them to make use of the expertise and resources of the institute. The start-up ecosystem continues to contribute to the digitisation of India and create employment and wealth across various segments of society.

Mr. Raaja Suresh (Extreme left) & Mr. Pavan (Extreme right) are incubatees of SSIIE-TBI

స్వీమ్స్ కు రోబో బహుకారణ

రోబో అందజేస్తున్న టీటీడీ చైర్మన్ వైపి సుబ్బారెడ్డి

యానివర్సిటీ క్యాంపస్: పద్మావతి మహిళా వర్సిటీ టెక్నాలజీ విజిఎస్ ఇంక్యుబేటర్ (టీటీఐ) సహకారంతో పలమనేరుకు చెందిన పవన్ కుమార్ రూపొందించిన రోబోను స్వీమ్స్ కు బహుకరించారు. వర్సిటీలో శుక్రవారం జరిగిన కార్యక్రమంలో టీటీడీ చైర్మన్ వైపి సుబ్బారెడ్డి రోబోను ప్రారంభించి స్వీమ్స్ డైరెక్టర్ డాక్టర్ వెంగమ్మకు అందజేశారు. రూ. 50 వేలతోనే రోబోను తయారు చేసినట్లు పవన్ కుమార్ తెలిపారు. వీసీ డి.జయసుధ, రిజిస్ట్రార్ మమత, టీటీఐ సీఈఓ సూర్యకుమార్ పాల్గొన్నారు.

COVID-19 Robot developed by TBI incubatee -Mr.Pavan donated to SVIMS Hospital, Tirupati

[Signature]
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Annexure VI

Activity Plan Format

1. Give tabular details of physical (no. of incubatees, product development, innovations introduced, training consultancy etc) targets planned for current /next Financial year.

S.No.	Workshops / Trainings Planned
1	Workshop on RT-PCR
2	Patenting
3	DPIIT Registrations

- ✓ There are presently 23 Incubatees at TBI. Depending on the Incubatees additional space will be created.

✓ **Developed products:**

1. Air Ceat, already in market
 2. Divya Antibiotic Nematicide already in market
 3. FAE products already in market
 4. Alyss Edu solutions already in market
 5. IoT device for micro climate regulation in sericulture rearing house - Prototype is ready
 6. IoT device for Pest Control -Prototype is ready
 7. Covid 19 Robo was developed by our Incubatee Mr.Pavan and donated to SVIMS hospital, Tirupati.
 8. Moisture detection strip (Sublicensing from UC Davis) are currently being evaluated by Renuka Biofarms.
 9. Sanitary napkins developed and Marketing started by M/s. Ramadevi.
 10. Medarogya App is available in play store and its currently operational in Tirupati as of now and is being expanded to Vizag and Hyderabad.
 11. Voice Controlled Drones- prototypes are developed and under field trails.
 12. Agriculture Solar Sprayer - prototypes are developed and under field trails.
 13. Multipurpose single wheel tractor prototypes are developed and under field trails.
- ✓ SSIIE-TBI will apply for SEED fund to be distributed to potential Incubatees.
 - ✓ Online consultancy services to be provided to incubatees or others who wish to apply for grants from BIRAC.
 - ✓ Incubatees products will be evaluated for patenting their innovations, if possible.

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- ✓ SSIIE-TBI will apply for Startup India Seed Fund Scheme, NIDHI-PRAYAS and NIDHI-EiR Programmes, which if sanctioned will be given to innovators.
- ✓ SSIIE-TBI is undertaking consultancy projects for revenue generation

2. Actions planned for improving the financial status of the TBI

Revenue will be generated from

- ✓ Equipment usage charges
- ✓ Rentals from the Incubatees
- ✓ Help Incubatees to apply for BIRAC schemes like BIG, Biomolecules, National Biopharma mission etc.
- ✓ Workshops
- ✓ Online Cohorts
- ✓ Consultancy
- ✓ To apply for various funding agencies to provide “Start Up” funding to deserving Incubatees
- ✓ To pool bankers and investors who can invest in potential Startups
- ✓ Taking Equity from Startups to whom seed funding is provided
- ✓ Taking Revenue sharing from the commercialized products for which financial support is provided


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Annexure VII

Proposed Budget for the current F.Y. format

**1. Projected Budget on Recurring and capital (if any)
with detailed break up April 2022-March 2023.**

S. No.	Sanctioned budget Heads	Funds (Rs. in Lakhs)
1	Man power	58.72
2	Travel	1.00
3	Utility & Maintenance	2.00
4	Marketing Networking & Publicity	3.00
5	Network and Training Programs	8.00
6	Miscellaneous and Contingency	4.00
7	Other Administrative Expenses	18.00
	Total	94.72

2. Projected revenue earnings for current F.Y. Vs. actual revenue earnings last F.Y.

- Revenue generation of Rs.3,60,000 for year 2021-2022


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Target Milestones till 31st March 2022

Outcome	1 st Year per proposal	1 st year targets achieved	2 nd Year as per proposal	2 nd year targets achieved	3 rd Year as per proposal	3 rd year targets achieved	4 th Year as per proposal	4 th year targets achieved	1 st , 2 nd , 3 rd & 4 th Year Total targets achieved	1 st , 2 nd , 3 rd & 4 th Year Total targets achieved
a	5	11	10	4	15	12	15	7	45	34
b	-	-	3	-	7	1	12	6	22	7
c	-	-	5	9	5	4	10	8	20	21
d	-	-	5	-	5	-	5	0	15	0
e	2	2	2	10	2	6	2	6	8	24
f	-	-	2	3	2	2	2	3	6	8
	5	-	5	8	10	6	10	25	30	39
	-	-	2	3	2	2	2	3	6	8
2.Freshman's Lab										
3.Best Commercial Model										

*We are applying for Startup India Seed Fund Scheme, NIDHI PRAYAS & NIDHI EIR programs to fund Start-ups


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