

Sandip Foundation's

Sandip Institute of Technology and Research Centre

At & Po – Mahirawani, Trimbak Road, Tal & Dist. – Nashik
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(Approved by-AlCTE, New Dellii, & Gost, of Maharashtra and Affaiated to Saxitribat
Phule Pone University (Formerly Pune University), Pune.
Accredited with "A" grade by NAAC With CGPA Score of 3.11
NBA Accredited for Computer & Mechanical Engineering (UG Course) w.e.f. 2020-21 to 2022-23



Innovation and Entrepreneurship Development Cell

Title of the Project: Eternox Innovations

(F. No. 11/10/2015-NEB (G)/01 dated 27/07/2020)

Outcome in terms of Product Development	IPR Current Status	Socially and Economically Relevance
 Increase in efficiency in terms of product and cost in software development cycle. Increase in availability of resources for students. Reduction in error and optimization in economical terms for teams performing structural analysis 		 Will provide viable market value for open source software's. Provides opportunity for the utilization of required resources in terms of e-learning for students. Provides work speed and space optimization for construction firms. Provides security for confidential data such as project cost estimation. Provides the opportunity to small businesses for getting customized softwares developed as per their requirements at affordable rates. Provides a platform for colleges to advertise to appropriate audience.

Developed By:

Young	Innovators		Mentor
Student SF ID	Names	Staff SF ID	Names
112018011	Pratik Nitin Dhole		-
112018212	Tushar Dinesh Sonawane	1208	Prof. Jagdish A. Patel
122019104	Kalyani Jitendra Suryawanshi		

Achivements:

Secured "WINNER" Status in Business Model Hackathon by MITAOE E-Cell 2K21

Participated in Hackathon conducted by NIT Jalandhar





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(F. No. 11/10/2015-NEB (G)/01 dated 27/07/2020)



Application Launcher



Virtual Lab

Welcome Kalyani

NEW PROJECT EXISTING PROJECT



Civirix







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Innovation and Entrepreneurship Development Cell

Title of the Project: Development of hybrid chaff cutter

(F. No. 11/10/2015-NEB (G)/02 dated 27/07/2020)

Outcome in terms of Product Development	IPR Current Status	Socially and Economically Relevance
 Increase in quality fodder management. Reduction in human efforts and increase in quality feed for animals. Reduction in time needed for human fodder management cycle. 	In process Enroll under SANDIP TBI in Pre-incubation Segment	 Farmers, dairy farmers find it suitable as fodder management is still a issue for small scale dairy farmers. Time saving work for small scale dairy farmers and hybrid system can work in any environment irrespective of weather conditions. Provides the opportunity to small dairy farmers for getting customized machine as per their requirements at affordable rates.

Developed By:

Young Innovators		Mentor	
Student SF ID	Names	Staff SF ID	Names
112018010	Aniket Devidas Gaikwad		
112018006	Atharva Jeevan Naikwadi	1417 1050	Prof. (Dr) Milind Motiram Patil Prof. Vasim A. Shaikh
112018048	Pratik Ashok Chumbale		

Achivements:

Participated in Hackathon conducted by NIT Jalandhar





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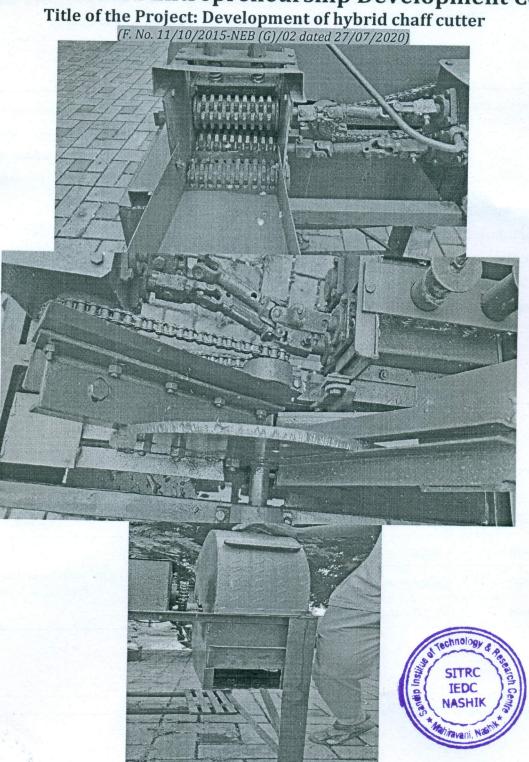
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Innovation and Entrepreneurship Development Cell

Title of the Project: IoFT based Hi-Tech Onion Farming

(F. No. 11/10/2015-NEB (G)/03 dated 27/07/2020)

Outcome in terms of Product Development	IPR Current Status	Socially and Economically Relevance
 It will increase the return on investment (ROI) as it will reduce inputs use and increase quality. It will reduce the production cost. It can provide better information so that we can take better management decisions. It will save time and costs. It can reduce pollution by reducing more use of chemicals. It will reduce unnecessary use of water. Early prediction of crop disease. 	Enroll Startup under SANDIP TBI in Pre- incubation Segment	 Will increase agriculture productivity. Will avoid soil degradation. Will reduce chemical application in crop production. Will make efficient use of water resources. Will change the socio-economic status of farmers. Will provide ease for new commerce's in agriculture.

Developed By:

Young	g Innovators		Mentor
Student SF ID	Names	Staff SF ID	Names
122019025	Shaikh Shahzeb Husain Eteqad Husain		
112017046	Anshu Sugreev Vishwakarma	1097	Dr. Gayatri M. Phade
122019007	Suyog Ravindra Kangune		

Achievement:

Achieved "KRUSHI MAULI PURASKAR" at "JAGTIK KRUSHI MAHOTSAV-2020".

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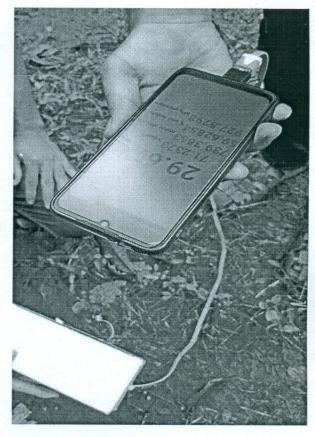


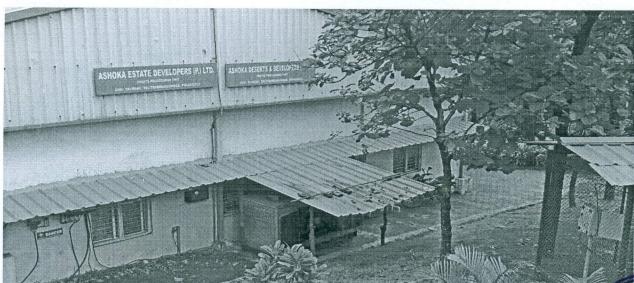
Innovation and Entrepreneurship Development Cell

Title of the Project: IoFT based Hi-Tech Onion Farming

(F. No. 11/10/2015-NEB (G)/03 dated 27/07/2020)







Visited "Ashoka Estate Developers Pvt. Ltd." Farm for testing and to know climatically parameters for yield improvement.





Government of India

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Innovation and Entrepreneurship Development Cell

Title of the Project: LoRa base Pump Data Monitoring System

(F. No. 11/10/2015-NEB (G)/04 dated 27/07/2020)

 Easy to monitor status of water pump due to feedback system Easy to manage and control the whole system in single click. In process Enroll under SANDIP TBI in Pre-incubation Segment 	Socially and Economically Relevance
•	It can be used in all type of sectors especially in agricultural in sector. Due to long range operator will not need to go that particular area. Provides the opportunity to small businesses for getting customized system developed as per their needs. Water reduction for commercial farms. It saves electricity, water, human efforts as well as time.

Developed By:

Young Innovators		Mentor	
Student SF ID	Names	Staff SF ID	Names
122019067	Dhiraj Jankiram Kapure	1097	Prof. Dr. Gayatri M. Phade
122019065	Chetan Valmik Suryawanshi	1208	Prof. Jagdish A. Patel

Achivements:

Participated in Hackathon conducted by NIT Jalandhar





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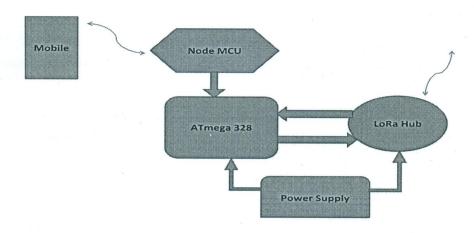
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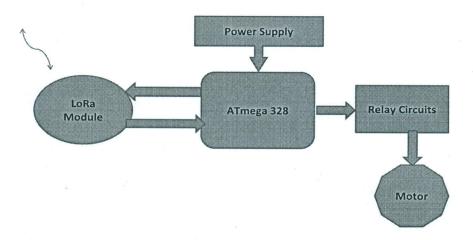
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Title of the Project: LoRa base Pump Data Monitoring System

(F. No. 11/10/2015-NEB (G)/04 dated 27/07/2020)



Sender (master) block diagram



Receiver (slave) block diagram







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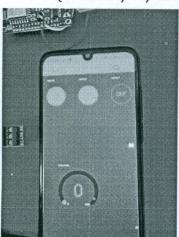
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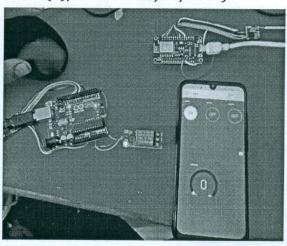


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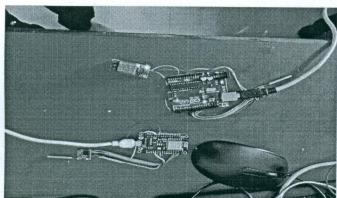
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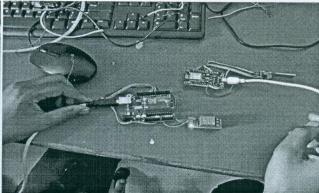
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Application GUI













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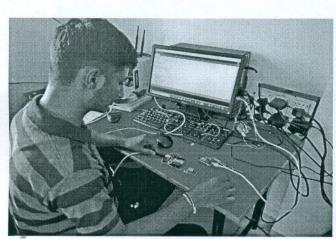
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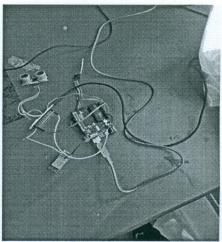


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Title of the Project: LoRa base Pump Data Monitoring System

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Testing Photos









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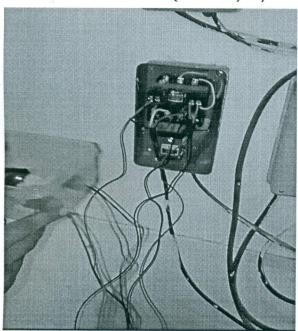
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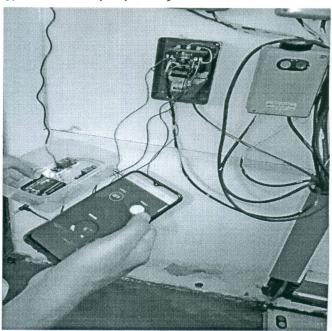


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Actual Testing Photos





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IEDC

Innovation and Entrepreneurship Development Cell

Title of the Project: Canopy Detection and Spraying

(F. No. 11/10/2015-NEB (G)/05 dated 27/07/2020)

Outcome in terms of Product Development	IPR Current Status	Socially and Economically Relevance
 To help the farmers in bringing efficiency in the process of pesticide spraying process while minimizing health issue due to the chemicals To develop the spraying mechanism in agriculture sector with less use of pesticides and fertilizers. To detect the sapling and canopy automatically. 	 In process Enroll under SANDIP TBI in Pre-incubation 	 To help Farmers by easing an essential task. To maintain fertility of the soil by giving just the right amount of pesticides. To develop Agridrone sprayer which use less fertilizers and pesticides that saved financial capital. To use the open source technology helps in increasing technology access.

Developed By:

Young	g Innovators		Mentor
Student SF ID	Names	Staff SF ID	Names
112018275	ABHISHEK ASHOK PATIL	9 7	,
112018112	SUDHIR BHAUSAHEB PAWAR	1035 1097	Dr. Omkar S. Vaidya Dr. Gayatri M. Phade
112018384	ASIT SANJEEV BHATE		

Achivements:

Participated in National Level Competitions of Prototypes Development TECHNOVA-TION 2021 organized by Dr. B R Ambedkar National Institute Of Technology (NIT), Jalandhar and Innovation Club on 6-7 March, 2021.





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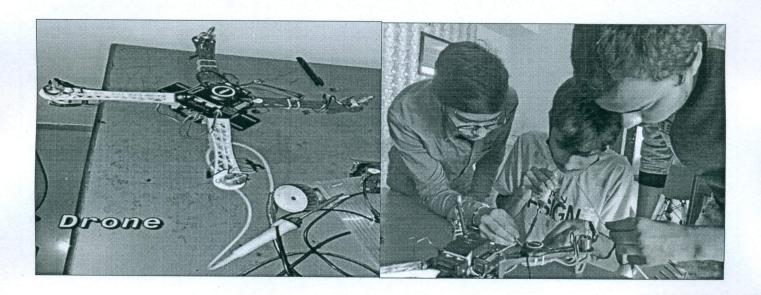


Innovation and Entrepreneurship Development Cell

Title of the Project: Canopy Detection and Spraying

(F. No. 11/10/2015-NEB (G)/05 dated 27/07/2020)

Development Stage



Testing and Troubleshooting









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Innovation and Entrepreneurship Development Cell

Title of the Project: Canopy Detection and Spraying (F. No. 11/10/2015-NEB (G)/05 dated 27/07/2020)

Final Flying Stage





GPS Tracking of Drones using ArduPilot

