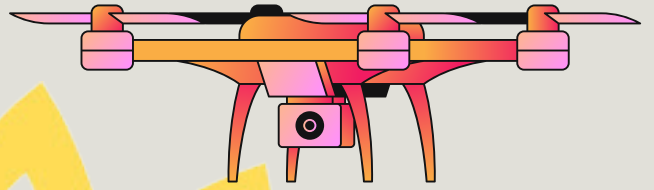
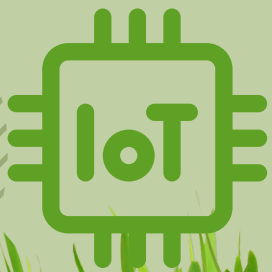
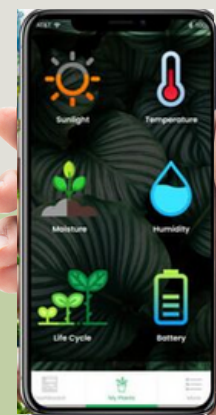


NOTS



Annual Report 2023 - 2024



NOTS Organisation of Technological Students

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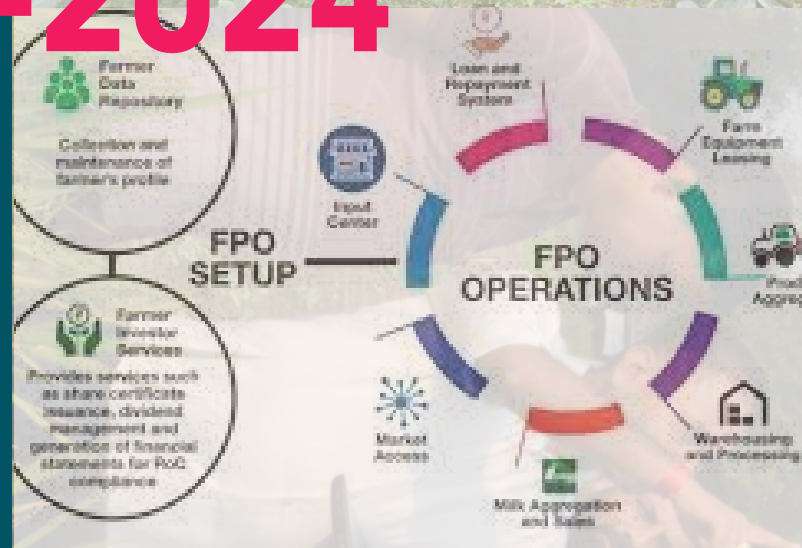
2023-2024

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Prepared By :
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NOTS Organisation of Technological Students



2 दैनिक जागरण कानपुर, 14 दिसंबर, 2023

25 किसानों का दल प्रशिक्षण के लिए करनाल रवाना

जागरण संवाददाता, उन्नाव : राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबार्ड) द्वारा प्रायोजित कैट योजना के अंतर्गत नाबार्ड के 'मटुकारी फार्मर प्रोड्यूसर कंपनी लिमिटेड' बांगरमऊ के 25 किसानों का एक दल आईसीएआर-राष्ट्रीय डेयरी अनुसंधान संस्थान (एनडीआरआई) करनाल हरियाणा में तीन दिवसीय प्रशिक्षण और भ्रमण के लिए बुधवार को रवाना किया गया। उप कृषि निदेशक मुकुल तिवारी ने हरी झंडी दिखाकर किसानों के दल को रवाना किया।

नाबार्ड द्वारा ग्रामीण क्षेत्रों में कृषक उत्पादक संगठनों का विकास किया जा रहा है। नाबार्ड के अग्रणी जिला बैंक प्रबंधक सनील

पशुओं की उन्नत नस्ल, पशु आहार, बीमारियाँ और उनके उपचार, डेयरी प्रसंस्करण आदि से जुड़ी जानकारियां मिलेंगी

इस संगठन के 25 किसानों को तीन दिवसीय प्रशिक्षण और भ्रमण कार्यक्रम के लिए करनाल हरियाणा भेजा गया है। उन्होंने बताया कि प्रशिक्षण के माध्यम से डेयरी और पशुपालन से जुड़े किसानों को नवीनतम तकनीकी और जानकारी प्राप्त होगी। इसके अलावा, पशुओं की उन्नत नस्ल, पशु आहार, बीमारियाँ और उनके उपचार, डेयरी प्रसंस्करण आदि से जुड़ी

About Us

NOTS is dedicated to the overall development of marginalized communities and fostering a vision of leadership. Our participatory learning approach fosters mutual sharing of ideas and knowledge, placing people at the center of all our development initiatives.

Core Values

Our work is guided by the following core values:

Participatory Development Approach: We believe in involving communities in decision-making and implementation processes, ensuring their active participation in shaping their own development.

Mutual Sharing of Ideas and Information: We encourage open dialogue, knowledge exchange, and collaboration among stakeholders, fostering a culture of mutual learning and growth.

Faith in Knowledge and Capacity of the Marginalized: We recognize the inherent potential and skills within marginalized communities and strive to empower them to lead their own development.





Our Vision

To build and strengthen the capacities of civil society organizations, placing people at the center of all development initiatives.

Our Mission

1

to empower marginalized communities by fostering their leadership and enhancing their capacities. We believe in creating opportunities for the marginalized to actively participate in decision-making processes, access resources, and develop sustainable solutions that address their unique needs and aspirations.

2

to promoting participatory approaches in development initiatives. Our mission is to facilitate mutual sharing of ideas, knowledge, and information among stakeholders, ensuring that marginalized communities have a voice in shaping their own development. We work towards building inclusive partnerships that value the expertise and perspectives of all involved.

3

to build and strengthen the capacities of civil society organizations. Our mission is to provide training, resources, and support to enable these organizations to effectively address the challenges faced by marginalized communities. By strengthening the capabilities of civil society organizations, we foster a collective impact that brings about positive and sustainable change.





from the chairperson's desk

It brings me great satisfaction to reflect on the journey of NOTS since its inception as a voluntary organization in 2005-06. Today, as we step into another action-packed year, we can proudly say that we have made significant strides in the humanitarian sector.

The previous year witnessed a strong focus on bringing humanitarian assistance to the doorstep of the impoverished, who aspire for better days. We conducted thorough in-house deliberations, meticulous planning, and preparations for each program. Through successful implementation, we achieved our goals, leaving no stone unturned on the path to success. Crucial to this accomplishment was the active involvement and cooperation of our targeted beneficiaries – the poor, downtrodden, and underprivileged individuals who found opportunities for sustainable livelihoods and employment, finally seeing a glimmer of hope.

The results we have achieved are in direct proportion to the efforts and resources invested by our organization. This annual report will unveil the details of our accomplishments, and we are pleased to present it to you. However, there is no room for complacency. Our society must continue marching forward toward its goals.

I would like to express my heartfelt gratitude to our donors and NABARD for their timely financial assistance. I am also grateful to our members, consultants, staff, and well-wishers for their guidance, involvement, and hard work. It is their unwavering support that has made these achievements possible.

As we move forward, I humbly request your continued cooperation and support in our future endeavors.

Thank you.

Saurabh Gupta
CEO

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Background

NOTS (NOTS Organisation of Technological Students), is registered under the Indian societies registration act, 1860. Being a voluntary organization, it is non-political and non-profit oriented in its workings and workers mainly for the socio-economic upliftment and welfare of the poor and deprived sections of the society. The organization was established at march' 2006 by the effort of a group of technocrats, technical students, social activists committed to using technology as a tool for effective social change of Society and community to work for holistic development of disadvantaged communities of the Indian society. The organization with its headquarter at prakash nagar chaubepur, Kanpur nagar has been focusing its efforts in the districts of Kanpur Nagar, Kanpur Dehat , Jalaun, Hamirpur, Jhansi, Unnao & Hardoi of the state of Uttar Pradesh and Chhatarpur district of Madhya Pradesh of India.

Ever since the commencement of its activities, the organization has undertaken various initiatives in the field of Rural Development, Agricultural Development, Employment generation, Health & family welfare, literacy, education & vocational training, Women's Empowerment, Handicraft development, Environment & sanitation with main focus of integrated development of the society.



2.0 Rural Development Initiatives

Economic development is seen not percolating down to rural areas and is centered around urban areas mainly. NOTS therefore endeavor to concentrate on rural development within its resources. during the year under review the organization has conducted several campaigns at various places in rural areas for the benefit of rural folk advising them the necessity to conserve water, change the multiple crop, use of bio-compost, importance of education to their children, women empowerment, employment generating trainings, financial inclusion issue and several rural development related works sponsored by NABARD.

2.1 Gauri Mahila Vikas Pariyojna (GMVP)

Women empowerment is a new terminology in the rural areas particularly where the people are illiterate. NOTS have also taken up various activities such as awareness campaign, SHG formation & credit mobilization, Vocational training etc. to empower these women. The objectives of these programmes are to the enhancement of the quality of life of poor women through support for income generation activities and promotion of behavioral and attitudinal changes that allow them to equal partners in the family and the community.

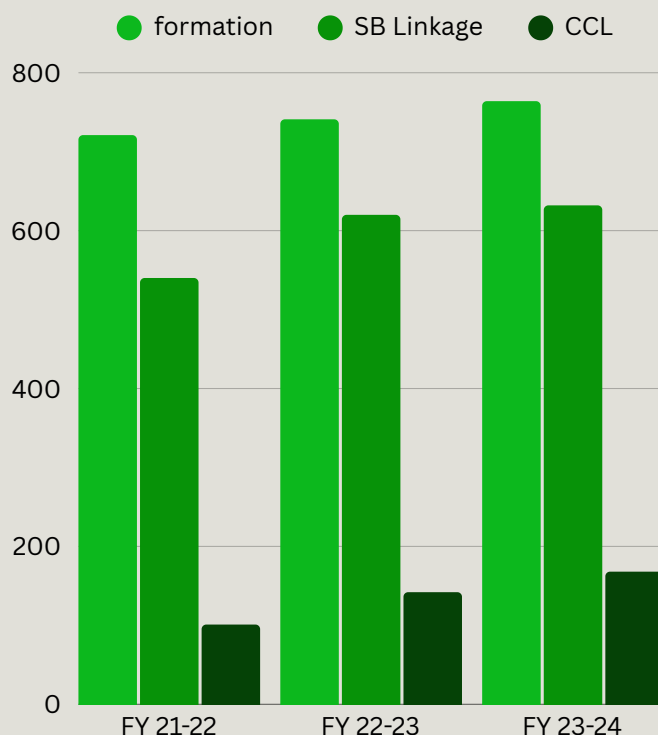
During the programme they were also told about role of women in society, women & their rights- reproductive rights, right of property, right of income & self employment and role of women in local self governance.

Our volunteers and field staff visited these villages and did door to door visit and provided counseling to these women to access of various services available at these areas such as health, literacy, nutrition and involving in different income generation programme

2.1.01 SHG Formation & Management

Formation and management of self-help groups (SHGs) is a powerful tool for development. NOTS Foundation has successfully formed 122 women's SHGs with the sponsorship of NABARD in Kanpur Nagar and Kanpur Dehat districts. These SHGs consist of 1,250 women who engage in regular meetings, income-generating activities, savings, and collaboration with financial institutions. The progress of the SHGs is gratifying, with members experiencing socio-economic empowerment and improved collective bargaining power. Through SHG formation, NOTS Foundation aims to uplift assisted poor families above the poverty line and promote self-reliance among the rural poor.

Gauri Mahila Vikas Karykram



Status of SHGs during past 3 years

2.1.02 Agarbatti Making & Entrepreneurship Development Initiatives

NOTS implemented an agarbatti making training and entrepreneurship development project to empower women in rural areas. Women were organized into Self Help Groups (SHGs) and educated about savings. Through training programs on agarbatti rolling and other micro-enterprises, women gained skills to manage income-generating projects.

The objectives included skill development, quality control, documentation, production control, packaging, coding, and fostering entrepreneurial skills. These initiatives aim to empower women, enhance their economic contribution, and promote self-reliance in the community.



Gauri Mahila Vikas Karykram

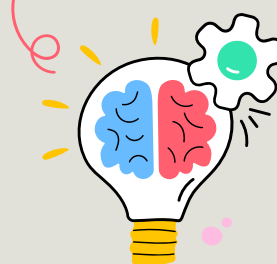
2.1.03 Kitchen Entrepreneurship Initiatives

NOTS promotes kitchen gardening and entrepreneurship development initiatives. These initiatives empower SHG women to cultivate fresh produce in limited spaces and learn sustainable farming practices. Participants gain entrepreneurial skills to generate income by selling surplus produce. These initiatives aim to enhance food security, promote healthier lifestyles, and create economic opportunities at the grassroots level.



2.2 Micro Entrepreneurship Development Initiatives

The Micro Entrepreneurship Development Programme (MEDP) is a significant promotional program of NOTS, supported by NABARD. It aims to create sustainable employment and income opportunities for the benefit of Self Help Group (SHG) members in a cost-effective manner. Through MEDP, individuals are empowered to become successful micro-entrepreneurs, fostering economic growth and improving livelihoods within their communities. The program focuses on providing the necessary training, resources, and support to develop entrepreneurial skills and establish small-scale businesses. By promoting micro-entrepreneurship, MEDP plays a vital role in empowering SHG members and promoting self-reliance in income generation.



Gauri Mahila Vikas Karykram

Beneficiaries from MEDP program

S N	Training Program	No. of Trainees
1	Agarbatti, Candel Detergent	210
2	Artificial jewelry	120
	Soft toy making	60
4	Low Cost Bag Making	30
5	Readymade Garment Making	120
6	washing powder, phenyl making	60

2.2.01 Detergent, Phenyl & disinfectant making Training (MEDP)

NOTS conducts specialized training programs on detergent, phenyl, and disinfectant making exclusively for women belonging to Self Help Groups (SHGs). These training sessions aim to empower SHG women with valuable skills in producing their own cleaning products.

During the training, SHG women learn the formulation and manufacturing process of detergents, phenyls, and disinfectants. They are equipped with knowledge about selecting the right raw materials, proper measurements, and techniques to ensure the quality and effectiveness of the cleaning products they produce. Emphasis is placed on maintaining high standards of quality control and safety.

By acquiring these skills, SHG women are not only able to reduce their reliance on commercially available cleaning products but also have the opportunity to generate income. They can start their own small-scale businesses by producing and selling these in-demand cleaning products within their communities.

The detergent, phenyl, and disinfectant making training provided by NOTS to SHG women fosters self-sufficiency, entrepreneurship, and economic empowerment. It enables women to contribute to the local economy, promote a cleaner and healthier environment, and enhance their overall well-being. Through this training, SHG women gain valuable skills that improve their livelihoods and support their journey towards financial independence.



Gauri Mahila Vikas Karykram

2.3 Group Leader's Training program

As part of the SHG-Bank Linkage Programme, NOTS Foundation conducted five group leaders training programs in Kanpur district. Approximately 150 SHG leaders participated in these training sessions. The training covered several important topics, including:

1. Following the Panchsootra (Five Principles) of SHGs: a. Regular meetings b. Regular savings c. Regular loaning d. Regular record-keeping e. Regular repayment
2. How to conduct a monthly meeting for SHGs.
3. Livelihood development activities to enhance income generation.
4. Maintenance of books and records of SHGs.
5. Awareness on social issues affecting the community.

These training programs aimed to empower SHG leaders with the necessary knowledge and skills to effectively manage their groups. By focusing on regular meetings, savings, loaning, record-keeping, and repayment, the participants were equipped with the tools for successful SHG functioning. Additionally, they gained insights into conducting monthly meetings, exploring livelihood development opportunities, maintaining accurate records, and raising awareness about social issues. Through these training initiatives, NOTS Foundation aims to strengthen the SHG-Bank linkage program, promote financial inclusion, and empower SHG leaders to drive socio-economic development within their communities.

2.4 Program on Women's Rights on the Day of International Women's Day

NOTS organized a special program on the occasion of International Women's Day to raise awareness about women's rights and promote gender equality. The event aimed to celebrate the achievements of women, highlight the challenges they face, and advocate for their empowerment.

The program included a series of engaging activities and discussions focused on various aspects of women's rights. Key topics covered during the event included:

1. Gender equality and its importance in society.
2. Women's empowerment and leadership.
3. Addressing gender-based violence and discrimination.
4. Promoting women's access to education and healthcare.
5. Enhancing economic opportunities for women.
6. Encouraging the active participation of women in decision-making processes.

Expert speakers, activists, and community leaders were invited to share their insights and experiences, providing inspiration and guidance to the participants. The program also featured success stories of women who have overcome challenges and made significant contributions to their communities.

NOTS program on Women's Rights on International Women's Day aimed to inspire change, promote awareness, and foster a supportive environment for women's empowerment. Through such initiatives, the organization strives to contribute to the global movement for gender equality and create a brighter future for women everywhere.

Gauri Mahila Vikas Karykram

2.5 Joint Liability Groups within SHG

The National Bank for Agriculture and Rural Development (NABARD) has introduced the Joint Liability Group (JLG) scheme to extend institutional credit to small and marginalized farmers, including tenants, oral lessees, and sharecroppers. A JLG is an informal group consisting of 4 to 10 individuals who come together to access bank loans individually through a group mechanism, with mutual guarantee.

NOTS has taken the initiative to form JLGs supported by NABARD for farmers and villagers who do not have sufficient documentation or property to secure credit from banks. These villagers can form a group of 4 to 10 members and provide mutual guarantee to the bank. NOTS acts as a facilitator between the bank and these villagers, helping them establish JLGs. This initiative is being implemented in Kanpur, Unnao and Jalaun districts.

Under this program, a total of 192 JLGs have been formed and credit has been linked for these groups in Kanpur Dehat district. This initiative aims to improve access to credit and financial support for marginalized farmers, enabling them to enhance their agricultural activities and improve their livelihoods. NOTS is committed to promoting financial inclusion and empowering farmers through the JLG scheme supported by NABARD.



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2.6 Rural Mart for Marketing of SHG Produce

NOTS, in collaboration with NABARD, has successfully established two rural marts in Kanpur Dehat district. These rural marts serve as platforms to facilitate marketing linkages for various artisanal products, including agarbatti, candles, donas, jewelry, detergents, dhoop, pooja samagri, and more.

The primary objectives of these rural marts are to provide marketing opportunities for artisans and to mitigate the risks associated with setting up rural retail outlets during the initial stages. The locations of the rural marts are Bairi Savai and Shobhan.

The progress of these rural marts has been commendable, with both establishments functioning effectively. The rural marts have played a crucial role in marketing the products produced by Self Help Groups (SHGs), and LEDP (Livelihood Enterprise Development Program). The availability of these marketing avenues has significantly benefited the artisans, enabling them to showcase and sell their products efficiently.

Through the establishment and successful functioning of these rural marts, NOTS and NABARD have contributed to the promotion of rural entrepreneurship, market access, and sustainable livelihoods for artisans in Kanpur Dehat district. The rural marts serve as vital platforms for showcasing and marketing the diverse range of products created by local artisans, thus fostering economic growth and empowerment at the grassroots level.



3.0 Sustainable Agriculture

3.1 Farmer's Producer Organisations (FPOs)

NOTS is actively involved in promoting and supporting Farmers Producer Organisations (FPOs) as part of its agricultural development initiatives. FPOs are collective enterprises formed by farmers to enhance their bargaining power, improve market access, and strengthen their overall economic viability.

The key objectives of promoting FPOs are as follows:

1. **Empowering Farmers:** FPOs empower farmers by bringing them together, providing a platform for collective decision-making, and enabling them to actively participate in value chain activities.
2. **Enhancing Market Access:** FPOs play a crucial role in facilitating market linkages for farmers. By pooling resources, FPOs can negotiate better prices, access larger markets, and establish direct relationships with buyers and retailers.
3. **Capacity Building:** NOTS focuses on building the capacity of FPOs by providing training and support in areas such as agricultural practices, post-harvest management, quality control, financial management, and marketing strategies.
4. **Financial Inclusion:** FPOs often face challenges in accessing formal credit and financial services. NOTS works towards strengthening the financial inclusion of FPOs by facilitating linkages with financial institutions and assisting them in obtaining credit and financial support.
5. **Knowledge Sharing and Technical Assistance:** NOTS Foundation promotes knowledge sharing and provides technical assistance to FPOs, ensuring they have access to the latest information, technologies, and best practices in agriculture and agribusiness.

Through its efforts in promoting FPOs, NOTS aims to empower farmers, improve their income levels, and create sustainable agricultural systems. FPOs serve as important catalysts for rural development, fostering entrepreneurship, and enabling farmers to collectively overcome challenges and seize opportunities in the agricultural sector.

3.1.01 FPOs in Uttar Pradesh promoted by NOTS

NOTS has promoted following FPOs registered as Farmer producer companies in various districts of Uttar Pradesh :

1. Chaubepur Milk Producer co. Ltd.
2. Shobhan Agro Producer co. Ltd.
3. Kanpur Mushroom & Vegetable Producer co. Ltd.
4. Unnao Farmer Producer co. Ltd.
5. Bilhaur Farmer Producer co. Ltd.
6. Baba Khereshwar Farmer Producer co. Ltd.
7. Dewaha Farmer Producer co. Ltd.
8. Mahoba Farmer Producer co. Ltd.
9. Krishak Sarathi Producer Co. Ltd.
10. Wingsgrow Farmer Producer Co. Ltd.



3.0 Sustainable Agriculture

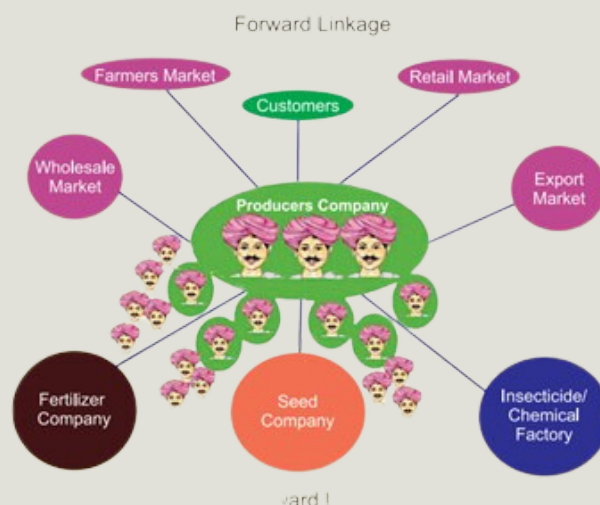
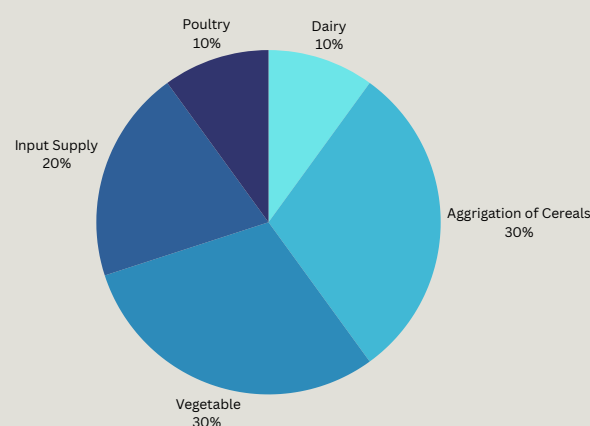
3.1.02 Activities Undertaken for Development and Establishment of FPOs:

NOTS has undertaken various activities to promote and establish Farmers Producer Organisations (FPOs). These activities include:

- 1.Registration of FPCs: Facilitating the registration process of Farmers Producer Companies (FPCs) to formalize the FPOs and provide them with legal recognition.
- 2.Empowerment of Board of Directors: Strengthening the capacity and knowledge of the FPO's board of directors, enabling them to effectively govern and manage the organization.
- 3.Training of Board of Directors: Conducting training programs to enhance the skills of the board members in areas such as governance, financial management, marketing strategies, and decision-making.
- 4.Appointment of CEOs: Identifying and appointing competent Chief Executive Officers (CEOs) to provide professional leadership and management to the FPOs.
- 5.Training of CEOs: Providing comprehensive training to the CEOs to equip them with the necessary knowledge and skills to oversee the day-to-day operations of the FPOs.
- 6.Training and Exposure of Lead Farmers: Organizing training sessions and exposure visits for lead farmers associated with the FPOs, enhancing their agricultural and business skills.
- 7.Preparation of Business Plan: Assisting FPOs in developing a comprehensive business plan that outlines their goals, strategies, and operational processes.
- 8.Execution of Business Plan: Supporting FPOs in implementing their business plans, ensuring effective execution of various activities outlined in the plan.
- 9.Licensing: Facilitating the acquisition of necessary licenses such as seed licenses, fertilizer licenses, mandi licenses, GST registration, and other regulatory requirements.
- 10.Establishment of Supply Chain Network: Assisting FPOs in establishing a robust supply chain network, enabling them to efficiently connect farmers with markets, buyers, and value-added processing units.

Through these activities, NOTS aims to promote the sustainable development and growth of FPOs, enabling them to become strong and self-reliant entities that contribute to the socio-economic development of farmers and rural communities.

3.1.03 Activity wise FPOs in Uttar Pradesh promoted by NOTS



3.0 Sustainable Agriculture

3.02 Capacity Building for adoption of Technology (CAT):

Technological upgradation and innovation have been key drivers of progress in Indian agriculture. Recognizing the importance of adopting new agro-technology, NOTS Foundation has undertaken initiatives to broaden the horizons of traditional farmers by exposing them to innovative projects implemented by various agencies across the country.

To facilitate this, NOTS has organized exposure visits as part of the Capacity Building for Adoption of Technology (CAT) program, which is sponsored by NABARD. These exposure visits aim to provide farmers with firsthand experience and knowledge about the successful implementation of new technologies in different parts of the country. Through these CAT visits, farmers have the opportunity to learn about advanced agricultural practices, modern machinery, crop management techniques, post-harvest technologies, and value addition processes. They gain insights into the benefits of adopting these technologies and witness their impact on productivity, profitability, and sustainability.

By exposing farmers to innovative projects and technological advancements, NOTS aims to inspire and motivate them to embrace new technologies, thereby enhancing agricultural productivity, improving livelihoods, and ensuring long-term sustainability in the farming sector. These exposure visits play a crucial role in bridging the gap between traditional farming practices and modern agro-technology, fostering a culture of innovation and continuous improvement in Indian agriculture.

3.2.01 Exposure Visit of Farmers to NDRI Karnal

NOTS organized an exposure visit for farmers to the National Dairy Research Institute (NDRI) in Karnal. The visit aimed to provide farmers with an opportunity to witness and learn about the latest advancements in dairy farming and related technologies.

During the visit, the farmers had the privilege to interact with experts and scientists at NDRI who shared valuable insights on various aspects of dairy farming, including breed improvement, nutrition management, animal health, and milk processing. The farmers were able to witness firsthand the state-of-the-art facilities and research activities conducted at NDRI.

The exposure visit provided a platform for farmers to gain practical knowledge and learn best practices in dairy farming. They were able to understand the importance of scientific methods in increasing milk production, improving breed quality, and enhancing overall productivity in the dairy sector.

Furthermore, the visit served as a catalyst for farmers to explore possibilities of adopting new technologies and innovative practices in their own dairy farms. They were inspired by success stories shared during the visit and gained confidence in implementing advanced techniques for better results.

NOTS believes that such exposure visits play a pivotal role in empowering farmers, enabling them to stay updated with the latest trends and innovations in the agricultural sector. By providing opportunities for experiential learning and knowledge exchange, these visits contribute to the overall development and progress of farmers and the farming community as a whole.



3.0 Sustainable Agriculture

3.2.02 Exposure Visit of Farmers to Center of excellence for vegetable, Umarda, Kannauj

NOTS Foundation organized an exposure visit for farmers to the Center of Excellence for Vegetable in Umarda, Kannauj. The visit aimed to provide farmers with practical knowledge and insights into the best practices and advanced techniques employed in vegetable cultivation.

During the visit, farmers had the opportunity to interact with experts and experienced horticulturists who shared valuable information on various aspects of vegetable production, including crop selection, nursery management, irrigation techniques, pest and disease management, and post-harvest handling.

The farmers were able to witness firsthand the state-of-the-art infrastructure and modern cultivation methods employed at the Center of Excellence. They observed demonstration plots showcasing different varieties of vegetables and learned about innovative farming techniques such as protected cultivation, drip irrigation, and organic farming practices.

The exposure visit served as a platform for farmers to learn from successful models and adopt new techniques in their own farms. They gained valuable insights into efficient resource utilization, crop management strategies, and market-oriented production approaches.

By experiencing the Center of Excellence for Vegetable, the farmers were inspired to enhance their productivity and profitability in vegetable cultivation. They returned with a renewed enthusiasm to implement the knowledge gained during the visit and to make necessary improvements in their farming practices. NOTS Foundation believes that exposure visits of this nature play a crucial role in promoting knowledge sharing, fostering innovation, and empowering farmers with the latest advancements in agriculture. By facilitating such visits, the foundation aims to support the development and growth of the farming community, contributing to sustainable agriculture and rural prosperity.



3.0 Sustainable Agriculture

3.2.023 Climate Smart Agriculture Project in Uttar Pradesh

Climate Smart Agriculture Project (2023-24)

In the financial year 2023-24, NOTS (Organization of Technological Students) successfully implemented the "Climate Smart Agriculture Project" across Kanpur, Kanpur Dehat, Unnao, and Jalaun districts of Uttar Pradesh. The project aimed to enhance agricultural resilience to climate variability, improve resource efficiency, and promote sustainable farming practices among local farmers. Key interventions under the project included:

1. Capacity Building: Training sessions for farmers on climate-smart practices such as efficient water management, crop rotation, and integrated pest management.
2. Adoption of Modern Techniques: Promotion of advanced agricultural technologies, including weather-resilient crop varieties, precision farming tools, and soil health improvement strategies.
3. Awareness Campaigns: Workshops and field demonstrations to encourage sustainable farming practices and reduce the carbon footprint of agricultural activities.
4. Community Engagement: Formation of farmer clusters to foster collective decision-making and implementation of best practices.

The project benefitted over 1,200 farmers, resulting in a 20-30% increase in productivity and a notable reduction in input costs. Additionally, the initiative strengthened the adaptive capacity of the farming community, contributing to the long-term sustainability of agriculture in these districts.

This project underscores NOTS' commitment to addressing climate challenges and supporting farmers with innovative solutions for a sustainable future.



4.0 Internet of things (IoT) in Agriculture

4.1 DPR project on 'Internet of things (IoT) based Agriculture Practices in Unnao district of Uttar Pradesh

NOTS has initiated a Detailed Project Report (DPR) project focused on implementing Internet of Things (IoT) based agriculture practices in Unnao district of Uttar Pradesh funded by NABARD. The objective of this project is to harness the potential of IoT technology to enhance agricultural productivity, improve resource management, and promote sustainable farming practices.

Under this project, NOTS aims to deploy IoT sensors and devices in agricultural fields to collect real-time data on various parameters such as soil moisture, temperature, humidity, and crop health. This data is then transmitted wirelessly to a central monitoring system where it is analyzed and processed to provide valuable insights for decision-making.

The IoT-based agriculture practices enable farmers to have a comprehensive understanding of their fields and make informed decisions regarding irrigation, fertilization, pest control, and other critical aspects of crop management. By receiving accurate and timely data, farmers can optimize resource utilization, minimize input wastage, and increase overall efficiency in farming operations.

Furthermore, the project includes capacity building and training programs for farmers to ensure they are well-equipped to understand and utilize the IoT technology effectively. Farmers will be trained on the installation and maintenance of IoT devices, data interpretation, and practical application of the insights derived from the IoT system.

The implementation of IoT-based agriculture practices in Unnao district has the potential to revolutionize farming techniques, enhance productivity, and promote sustainable agriculture. It empowers farmers with advanced technology, enabling them to make data-driven decisions and adopt precision farming methods.

NOTS Foundation is committed to the successful execution of this DPR project, which will not only benefit the farmers of Unnao district but also serve as a model for the adoption of IoT-based agriculture practices in other regions, contributing to the overall development and advancement of Indian agriculture.



4.0 Internet of things (IoT) in Agriculture



4.2 IOT DEVICES

In the realm of smart agriculture, NOTS Foundation has introduced a range of Internet of Things (IoT) devices designed to enhance farming practices and optimize agricultural operations. These innovative devices include the Micro Weather Station, Crop View Camera, Insect Trap Camera, and Automatic Motor Controller for Smart Irrigation.

The Micro Weather Station is a compact IoT device that measures and monitors crucial weather parameters such as temperature, humidity, rainfall, and wind speed. It provides real-time weather data specific to the farm location, enabling farmers to make informed decisions regarding irrigation, crop protection, and other farming activities based on accurate weather conditions.

The Crop View Camera is another IoT device that offers farmers a comprehensive view of their crops. It captures high-resolution images of the fields at regular intervals, allowing farmers to closely monitor crop growth, identify potential issues like nutrient deficiencies or pest infestations, and take timely remedial actions. This visual data aids in precision farming and maximizing crop yield.

The Insect Trap Camera is an IoT device designed to monitor insect populations in the fields. Equipped with high-definition cameras and insect trapping mechanisms, it captures images and records data on insect species and population densities. This information helps farmers in implementing targeted pest control measures, reducing the reliance on chemical pesticides and promoting sustainable pest management practices.

The Automatic Motor Controller for Smart Irrigation is an IoT device that enables efficient water management. It automates the irrigation process by controlling the motor that drives the water pump. Based on soil moisture levels measured by sensors, the device intelligently adjusts the irrigation schedule, ensuring optimal water usage and preventing overwatering or underwatering of crops.

By integrating these IoT devices into agricultural operations, farmers can benefit from improved decision-making, reduced resource wastage, enhanced crop protection, and increased productivity. The real-time data collected by these devices empowers farmers to adopt precision agriculture techniques and make data-driven choices for better farm management.

NOTS remains committed to promoting the adoption of IoT devices in agriculture, driving the digital transformation of the farming sector and contributing to sustainable and efficient agricultural practices.



4.0 Internet of things (IoT) in Agriculture



4.3 ACTIVITIES

The IoT project for agriculture encompasses a range of activities aimed at promoting sustainable farming practices and optimizing agricultural operations. Some of the key activities undertaken as part of this project include:

1. **Awareness Creation:** Conducting awareness campaigns and programs to educate farmers about the benefits and applications of IoT devices in agriculture.
2. **Workshops:** Organizing workshops and training sessions to familiarize farmers with the use and operation of IoT devices for improved farm management.
3. **Training for Organic Farming:** Providing training to farmers on organic farming practices, highlighting the integration of IoT devices for effective organic crop cultivation.
4. **Soil Testing:** Conducting soil testing and analysis to determine soil health and nutrient levels, enabling farmers to make informed decisions about fertilization and soil management.
5. **Advisory from Agronomists:** Offering expert advisory services from agronomists and agricultural experts, providing guidance on crop selection, cultivation techniques, and optimal resource utilization.
6. **Crop Monitoring:** Utilizing IoT devices, such as the Crop View Camera, to monitor crop growth, detect abnormalities, and identify nutrient deficiencies or pest infestations in a timely manner.
7. **Pest Management:** Implementing pest management strategies based on real-time data collected by IoT devices, enabling farmers to take proactive measures against pests and diseases.
8. **Regular Alerts and Advisory:** Sending regular alerts and advisory messages to farmers through IoT devices, providing updates on weather conditions, disease outbreaks, and recommended farming practices.

Through these activities, the IoT project aims to empower farmers with advanced technological tools, knowledge, and guidance for sustainable farming, improved crop yield, and efficient resource management.



4.0 Internet of things (IoT) in Agriculture

4.4 KEY OUTCOME

- 1. Increased Efficiency:** The adoption of IoT devices has improved the overall efficiency of farming operations. Real-time data collection, crop monitoring, and automated irrigation systems have optimized resource utilization, leading to better water management and reduced wastage.
- 2. Enhanced Decision-Making:** The availability of accurate and timely data from IoT devices has empowered farmers to make informed decisions regarding crop management, pest control, and resource allocation. This has resulted in improved crop quality, higher yields, and reduced losses.
- 3. Sustainable Farming Practices:** Through the project, farmers have been trained in organic farming techniques and sustainable agricultural practices. The use of IoT devices has facilitated precise application of inputs, minimized chemical usage, and promoted environmentally friendly farming methods.
- 4. Effective Pest Management:** IoT-based pest monitoring systems have enabled early detection of pests and diseases, allowing farmers to take prompt action. This has led to better pest management strategies, reduced crop damage, and minimized reliance on chemical pesticides.
- 5. Improved Resource Management:** The integration of IoT devices has enabled farmers to monitor soil moisture, temperature, and nutrient levels accurately. This information helps optimize irrigation schedules, fertilizer application, and soil health management, leading to efficient resource utilization and cost savings.
- 6. Access to Expert Advice:** The project has provided farmers with access to expert advisory services. Agronomists and agricultural experts offer guidance on crop-specific practices, disease management, and optimal utilization of IoT devices, further enhancing farming outcomes.
- 7. Increased Income:** By implementing IoT technologies and adopting sustainable farming practices, farmers have witnessed increased crop yields, improved crop quality, and reduced production costs. These factors have contributed to enhanced farm income and improved livelihoods for farming communities.

Overall, the IoT project has brought transformative changes to agricultural practices, fostering sustainability, efficiency, and profitability in farming operations. It has empowered farmers with advanced tools and knowledge, paving the way for a more prosperous and resilient agriculture sector.



4.0 RECOGNITION



Shri PVS Suryakumar, DMD NABARD Visited IOT Project



Sh. Akhlesh Srivastava, DGM NABARD



5.0 In Headlines



गंगादीन खेड़ा में शुरू हुई इंटरनेट आधारित खेती

जैसे, उन्नाव : परंपरागत खेती किसानों से अलग होकर इंटरनेट तकनीक का उपयोग करने की बातें शुरू हुई हैं। खेती करने वाले किसानों के बीच (नबाई) के द्वारा शुरू कर दी गई है। खेती करने वाले किसानों के बीच (नबाई) के द्वारा शुरू कर दी गई है। खेती करने वाले किसानों के बीच (नबाई) के द्वारा शुरू कर दी गई है।



सिक्कंदपुर जिले के गंगादीन खेड़ा में इंटरनेट आधारित खेती परियोजना का उद्घाटन किया गया। इस अवसर पर मुख्य अतिथि डॉ. ए.पी. सिंह ने कहा कि इस परियोजना का उद्देश्य किसानों को इंटरनेट तकनीक के माध्यम से खेती करने में मदद देना है।

फसल की रखा खेती एक्सपर्ट्स से इसी जानकारी नबाई की जिला किसान प्रमुख डॉ. ए.पी. सिंह ने कहा कि इस परियोजना का उद्देश्य किसानों को इंटरनेट तकनीक के माध्यम से खेती करने में मदद देना है।

खेती से इंटरनेट का जुड़ाव, देगा समृद्ध पड़ाव

संवाद न्यूज एजेंसी
उन्नाव : राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नबाई) ने सिक्कंदपुर जिले के गंगादीन खेड़ा गांव में इंटरनेट आधारित खेती परियोजना का शुभारंभ किया। इससे किसानों को मौसम के पूर्वानुमान, अर्द्धत, मिट्टी की नमी, फसलों के रोग संबंधी जानकारी मिल सकेगी।



नबाई उर प्रदेश कार्यलय के मुख्य महाप्रबंधक एमके डी, डॉ.एम.ए.सी. कुमार और सीडीओ दिव्यांगु पटेल ने गंगादीनखेड़ा में किसानों के लिए तरकीबों की नई राह खोली। डॉ.एम. ने बताया कि

सीडीओ दिव्यांगु पटेल ने कहा कि इंटरनेट और थिंग्स तकनीक के माध्यम से खेती करने वाले किसानों को मदद मिलेगी। नबाई के मुख्य महाप्रबंधक एमके डी ने कहा कि इस परियोजना का उद्देश्य किसानों को इंटरनेट तकनीक के माध्यम से खेती करने में मदद देना है।

उन्नाव जागरण



नबाई द्वारा उन्नाव में Internet of things आधारित कृषि परियोजना का शुभारंभ

उन्नाव : राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नबाई) द्वारा उन्नाव जिले के गंगादीनखेड़ा गांव में इंटरनेट आधारित खेती परियोजना का शुभारंभ किया गया। इससे किसानों को मौसम के पूर्वानुमान, अर्द्धत, मिट्टी की नमी, फसलों के रोग संबंधी जानकारी मिल सकेगी।



नबाई उर प्रदेश कार्यलय के मुख्य महाप्रबंधक एमके डी, डॉ.एम.ए.सी. कुमार और सीडीओ दिव्यांगु पटेल ने गंगादीनखेड़ा में किसानों के लिए तरकीबों की नई राह खोली। डॉ.एम. ने बताया कि

नबाई कराएगा इंटरनेट आधारित खेती



गंगादीनखेड़ा गांव में किसानों के खेत में लगी सोलर आधारित डिवाइस।

उन्नाव : राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नबाई) इंटरनेट आधारित खेती करने की शुरुआत करने जा रहा है। अभी पायलट प्रोजेक्ट के रूप में सिक्कंदपुर जिले के गंगादीनखेड़ा गांव में इसे शुरू कराया जाएगा। इंटरनेट आधारित खेती की शुरुआत करने के लिए गांव के दस किसानों को चुना गया है। जिसकी शुरुआत रविवार से होगी।

Meet our Team



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