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Calendar year 2023

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Annexure 1

Demonstrated spray of nano fertilisers by drone. JDA, DDA, and DAO along with KVk head.

Date of Event: 15th December 2023

Organized World Soil Day on 15th December 2023 at KVK Aligarh with support from IFFCO. Also demonstrated spray of nano fertilisers by drone. JDA, DDA, and DAO alongwith KVzk head and three technical experts were the panelist in the meeting.



We have very active groups working on bioinputs, crop improvement, nanotechnology, biotechnology, climate resilient agriculture, post harvest, waste valorisation, and many more areas.

Besides developing technologies for the farmers, we are actively supporting 7 Farmer Producer Companies (FPOs) under the Government of India's flagship scheme to establish 10,000 FPOs. This initiative, now with enhanced budgetary support, aims to revolutionize agricultural productivity and sustainability.

3 FPOs dedicated to vegetable production.

4 FPOs focused on mustard production, a priority crop of the GoI.

Through these FPOs, we aiming to transfer advance technologies and climate-resilient farming practices identified under the Asia Pacific Network Project.

Annexure 2

Demonstration to improve seeds and practices to farmers in U.P.

Date of Event: Year 2023-24

Amity University is actively engaged in supporting farmer groups in the Aligarh and Ambedkarnagar district, Uttar Pradesh. Our efforts focus on improving agricultural practices, providing farmers with access to new technologies, and training them in effective product marketing to boost their income. Amity holds licenses for seeds, fertilizers, and pesticides, which enables us to offer comprehensive support. Mustard and wheat are the major crop cultivated in this region, and in the 2023-24 year, we conducted multiple meetings with the farmers to address their challenges, share advancements, and reinforce sustainable practices.

Annexure 3

Demonstration to improve seeds and practices to Farmers in Jharkhand.

Date of Event: Year 2023-24

Amity University is actively engaged in supporting farmer groups in the Egarkund block of Dhanbad district, Jharkhand. Our efforts focus on improving agricultural practices, providing farmers with access to new technologies, and training them in effective product marketing to boost their income. Amity holds licenses for seeds, fertilizers, and pesticides, which enables us to offer comprehensive support. Rice is the major crop cultivated in this region, and in the 2023-24 year, we conducted multiple meetings with the farmers to address their challenges, share advancements, and reinforce sustainable practices.

Annexure 4

Providing events for Local Farmers and Food producers to contact and transfer Knowledge

Date of Event: Year 2023-24

There is a potential availability of about 5.5 Mt sal seeds year⁽⁻¹⁾ and after taking oil from the sal seeds, about 3-5 Mt de-oiled sal cakes are left as waste. The nutrient needs of Indian agriculture to some extent can be met by utilizing this nutrient-rich waste. The main issue with SSC is the tannin content. Value-added SC is suggested as a remedy for this problem.

Procedure for preparation of value-added sal seed cake: For preparation of value-added sal seed cake, sal seed cake was soaked in a solution containing rock phosphate (2.0%), urea (0.5%), and kitchen wastewater (10%) for half an hour and then allowed to drain. Kept overnight, then soaked sal seed cake was mixed with cow dung (2%), FYM (5%) and vermi compost (5%) & leguminous materials. The proportion of composting material was 3 parts of sal seed cake and 1 part of mixture of organic manures. Composted material was composted in a pit of size 1m x 1m x 1m. After filling up the pits, water was added to maintain the moisture to about 60%. After 1 week, inoculation *Trichoderma viride* @ 500 gm mycelium/tonne sal cake was done to decompose of cellulosic materials. Cover the pit with a polythene sheet to conserve moisture and heat and protect from rainwater. Periodic turning of compost mixture was made once in 20 days. After 3 weeks, inoculation of *Azotobacter chroococcum* and PSB @ 500 ml/tonne was done. The compost was ready within 1-1½ month. The cost for preparation of one tonne of value-added sal cake manure was approximately Rs. 500 to 600. The flow chart for preparation of value-added sal seed cake is presented in a project report submitted to funding agency.

Salient findings based on the demonstrations conducted for preparation of value-added sal seed cake:

- Sal seed cake had a total N, P, and K content of 2.16, 1.07, and 1.56%, respectively. After value addition, the sal cake's total N, P, and K content increased to roughly 21%, 53%, and 23%, respectively.
- The primary problem with SSC is that it had a very high tannin content, which was greatly decreased via composting for a period of months.
- At farmers' fields of three locations (Manesar, Sohna, and Kaithal), Haryana, the technology for preparing value-added SSC was demonstrated.
- The income level benefit from being able to sell the preparation of value-added sal seed cake has been reported by the tribal beneficiaries.
- Farmers can start production and sell their products on a commercial basis.

Annexure 5

Unnat Bharat Abhiyan

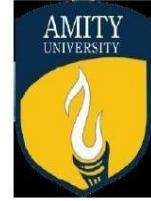
Date of the Event: 19th January 2023

First activity under Unnat Bharat Abhiyaan was a visit to the primary school which was headed by Joint Coordinators Dr. Sangeeta Pandey and Dr. Durgesh Tripathi along with the head of KVK department Dr. Mayank Rai and few students of Amity University. Following were the major topics of discussion during the interaction.

session : 1.International year of millets.

2. Unnat Bharat Abhiyaan demonstration : Higher Educational Institutions (HEIs) to work with the rural people and identify the challenges they face and come up with solutions for their sustainable development.

3. DOOR TO DOOR SURVEY



UNNAT BHARAT ABHIYAAN

The Mission of Unnat Bharat Abhiyan is a Central Government Programme to enable higher educational institutions to work with the people of rural India through identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both public and private sectors in responding to the development needs of rural India.

Vision : Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

Mission: The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

Goals: To build an understanding of the development agenda within institutes of Higher Education and an institutional capacity and training relevant to national needs, especially those of rural India.

To re-emphasize the need for field work, stake-holder interactions and design for societal objectives as the basis of higher education.

- To stress on rigorous reporting and useful outputs as central to developing new professions.
- To provide rural India and regional agencies with access to the professional resources of the institutes of higher education, especially those that have acquired academic excellence in the field of science, engineering and technology, and management.
- To improve development outcomes as a consequence of this research. To develop new professions and new processes to sustain and absorb the outcomes of research.
- To foster a new dialogue within the larger community on science, society and the environment and to develop a sense of dignity and collective destiny.

REPORT OF UNNAT BHARAT ABHIYAAN ACTIVITIES

AIMS AND OBJECTIVES

A survey was conducted between 15-19 June 2019 under Unnat Bharat Abhiyan (under MHRD) by students of Amity institute of organic agriculture . The major objectives were

1. To find number of beneficiaries of various government schemes and to find whether these schemes are reaching common people.
2. To identify major problems of the villagers and to find solutions for the same. The villagers were asked questions based on household survey form provided by Unnat Bharat Abhiyan.

NAGLIWAZIDPUR

Nangli Wazidpur is a village in the western part of the state of Uttar Pradesh. It forms part of the New Okhla Industrial Development Authority's planned industrial city, Noida, falling in Sector-135, noida. Nangli Wazidpur is about 25 kilometers (12 mi) southeast of New Delhi and Nangli Wazidpur is around 900 meters from Yamuna Expressway,formerly known as Taj Expressway, and opposite Sector 93. The village is a part of the Dadri Vidhan Sabha (state assembly) constituency and Gautam Buddh Nagar Lok Sabha (parliamentary) constituency. In terms of caste structure, Rajputs (Hindus) are the majority in this village. The total population is 1800.



VILLAGE OVERVIEW -

GRAM PANCHAYAT	Nagli
BLOCK	
DISTRICT	Gautam Buddh Nagar
STATE	Uttar Pradesh

THEMES- Importance of millets , elaboration of unnat bharat abhiyaan , field survey

VISIT TO PRIMARY SCHOOL

First activity under unnat bharat abhiyaan was a visit to primary school which was headed by Head of department Dr.Sangeeta Pandey and Dr. Durgesh Tripathi along with the head of KVK department Dr. Mayank Rai and few students of Amity University. following were the major topics of discussion during the interaction session :

- **International year of millets**
 - Millet is easy to grow as it's low maintenance and drought resistance grain.
 - Millet grows extremely quickly and matures in almost half the time required for rice and wheat.
 - It is gluten free and a good source of protein, fiber, micronutrients.
 - Millet contains fiber, which contributes to digestive health .
 - Easy to cook millet recipes – kheer, chapati, dosa etc.

- **Unnat Bharat Abhiyaan demonstration**
 - **Objective** -The vision of Unnat Bharat Abhiyan is to enable Higher Educational Institutions (HEIs) to work with the rural people and identify the challenges they face and come up with solutions for their sustainable development.
 - **Slogan**- The main motive to carry forward the Gandhian ideology of "Swacchta Hi Seva" and the mission and vision of the team was "Say NO to single use plastics". First, the UBA team collaborated with NSS team members in a slogan writing competition.
 - **Themes**- Organic farming, water management, renewable energy,Artisans industry and livelihood, basic amenities and convergence.

DOOR TO DOOR SURVEY

Students of Amity University went door to door visits in the village to collect information about them and to find out the problems they are facing in the village.

- **No. of house surveyed – 20**

KEY FINDINGS –

1. Major occupations include – farming, unskilled manual labour, livestock raising, only a few people migrated for work in the city.
2. Almost all the houses had electricity connection and electricity availability was approx. 22 hr/day.
3. Most of the houses had piped water at home.
4. Major crops grown – rice and wheat.

5. Farmers had no knowledge about organic farming hence they mostly preferred chemical fertilizers and pesticides.
6. Major problems-
 - a. Drainage system improper.
 - b. People were unaware of government schemes.
 - c. No work under MGNREGA.
 - d. No old age pension.

Number of households benefited from government schemes

NAME	BENEFICIARY INDIVIDUAL
PM Jan Dhan Yojana	
Sukanya Samridhi Yojana	
Atal pension Yojana	
Fasal Bima Yojana	
Kisan Sinchai Yojana	
PM Ujjwala Yojana	
PM Awas Yojana	

SCOPE OF DEVELOPMENT

1. Awareness program about various beneficial government schemes.
2. Construction of proper drainage systems.
3. Development of hospitals and higher secondary schools.
4. Acknowledging people about the importance of organic farming.

Annexure 6

Indian's Only Trade Fair Specialized On Urban Farming


Date of the Event: 24-25 March 2023

Demo-4

India's Only TRADE FAIR SPECIALIZED ON URBAN FARMING

2nd Edition
SUFEX 2023
SMART URBAN FARMING EXPO
24-25, March, 2023, Thyagraj Stadium, INA, New Delhi

- Technical Sessions
- Organic Haat
- DIY Learning
- Women Empowerment
- Citizen's Gallery
- Awards
- Gardener's Clinic
- Farm Visits
- Investor's Session
- CEO Conclave
- Start-up Pavilion



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Knowledge Partners

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AMITY UNIVERSITY

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urbanGRO
a new perspective.....

75 Azadi Ka Amrit Mahotsav

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"India's Home Gardening Partner"

INTRODUCTION TO URBAN FARMING

"In this busy Urban Life, knowingly or unknowingly we contribute to degrade the environment in some or the other ways, Urban Farming is the solution to make us and our family Carbon Net Zero."

Urban Farming, is the practice of cultivating, processing, food in or around urban areas.

Urban Farming shows great potential in the fulfillment of basic human needs, it not only provides food but also ensures a sustainable distribution and production system thereby creating employment opportunities and regular income for individuals. It also helps countries in the protection of their environment It can be done in front and backyards, balconies, sunrooms, indoor greenhouses, rooftops, or patios.

Through Urban Farming, the vegetables and fruits can be grown organically. Using no chemical farming encourages the energy conservation by 35-50%. It helps reducing carbon foot prints, and also enhances the greenery in the environment.



IMPORTANCE OF URBAN FARMING

- It puts school lessons into practice and can boost children's interest in agriculture-Experiential Learning
- It can boost food security
- Urban farming is of economic importance and creates jobs
- It is of social importance and creates environmental awareness
- Urban farming improves the overall human body wellbeing
- It ensures healthy living
- It benefits the environment
- Will bring people closer to nature and its related goodness
- A sensitivity and responsibility will be inculcated



OBJECTIVE OF THE EVENT

To bring technology and farming within the reach of a common man for social, economic and health benefits leading to creation of Greenfield Spaces and Environmental friendly pockets. Today, around the world, people are starting to grow food in the most untraditional places and spaces. Urban farming has become the new frontier in farming. From simple community vegetable gardens to providing healthy food to consumers in the nearby areas, with smart technology, urban farming can go anywhere. In cities, where sufficient space is a luxury, urban farming can be a boon. Lately, health concerns have further gravitated the focus of citizens at large for food safety, healthy environment and aesthetic surrounding.

EXHIBITOR'S PROFILE

- Hydroponics
- Aquaponics
- Aeroponics
- Vertical Farmers/Growers
- Architects/Consultants/Contractors
- Organic Farms
- Urban Beekeeping
- Porta Cabins
- Automation and Technology and Accessories
- Biofloc Fish Farming
- Urban Landscaping
- Greenhouse technology
- Grow lights
- Greenhouse technology
- Grow lights
- Agrivoltaics

VISITOR'S PROFILE

- Agriculture industry
- Urban Planners
- Architects / Interior design
- Technology suppliers
- Corporate, Start - up
- System integrators
- Govern mental Bodies (Local, Regional, National)
- Project developers
- Finance! Consulting
- Food Logistics
- Anyone interested in vertical farming



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ABOUT SUFex LANDSCAPE EXPO-SULex

SUFex Landscape Expo is the India's only specialized trade show for the industry and an ideal platform for organisations to showcase leading trend products, new services, key skills as well as being the perfect environment for visitors to discover the newest and most innovative products and solutions to help them in their designs and projects. SUFex-Landscape Expo is established as the essential trade event for discerning landscape designers, architects, architectural technologists, contractors, facilities managers and interior designers involved in some of the most important, prestigious and valuable projects in India and beyond. where buyers and sellers come together to do business. Meet face-to-face, discover new trends and expand your network to help the business and the green industry grow.



EXHIBITOR'S PROFILE

- Indoor & Outdoor Plants
- Landscape & Architect Companies
- Fountain & Accessories Suppliers
- Garden Machinery & Tools
- Fertilizer & Nutrients
- Golf Course & Play Ground Consultants
- Garden Furniture
- Water Features & Pond Accessories
- Pump & Pipes
- Flowers, Plants & Seed Companies
- Paving Materials & Tiles
- Stone & Granite Products
- Terracotta Gardenware & Pottery
- Synthetic Turf-Golf Putting, Greens & Sports
- Sculptures & Environment Art
- Bird / Pet Houses for Gardens
- Swimming Pools & Related Products
- Real Estate Developer

VISITOR'S PROFILE

- Landscape Architects
- Nurserymen
- Interior Designers
- Town Planners
- Golf Architects & Consultants
- Urban Planning Consultants
- Golf Course Superintendents and Managers
- Nurserymen & Gardeners
- Environment Consultants
- Ecologists
- Municipal Authorities
- Parks & Garden Departments
- Hotel, Restaurants & Resorts
- Tourist Development Depts.
- Hospital Planners
- Shopping Mall Designers

PAST GLIMPSES



Participation Options & rates:

Built up Stall :
 Rs. 8000/- per sq.mtr. + GST
Bare Space :
 Rs. 7000/- per sq.mtr. + GST
 (minimum 36 sq.mtrs. to be booked)



International Rates:

Built up Stall :
 \$120 per sq.mtr.
Bare Space:
 \$100 per sq.mtr.



OUR PAST PARTNERS



Annexure 7

Importance of Millets in Ensuring Food and Nutritional Security

Date of Event: Year 2023-24

To spread the importance of millets among youth, awareness session was organized by AIOA at Amity University Noida Campus. During the session, Dr Sangeeta Pandey addressed that Millet in any form can be a healthy addition to most diets. Millet is available in many supermarkets and health food stores in several different forms. It has several advantages, including low-maintenance, disease resistance, nutritional value, market demand, fodder value, and ecological benefits. Millet's adaptability and ease of cultivation are reviving interest in it. You may find different types of millet throughout India, including pearl millet and sorghum millet. The health advantages of millet can be found in all of these varieties. Students of AIOA displayed various self-made as well as packed products of millets. A poster presentation competition was held where the esteemed delegates were requested to rate the displayed posters on a 20 pointer scale. The students while presenting their individual posters explained about the theme to engross the interaction. The delegates also took the moment to question the competitors on their posters and awarded marks on three factors: creativity, relevance and correctness.





Annexure 8 and Annexure 9



Field Demonstration on Mustard on farmer's field



Field Demonstration on Field Pea on farmer's field

Annexure 10 and Annexure 11



Field Demonstration on Lentil on farmer's field



Field demonstration on Barely on farmers field

Annexure 12 and Annexure 13



Field demonstration on Urad Bean on farmers field



Field demonstration on Sesame on farmers field

Annexure 14



Field demonstration on Pigeon Pea on farmers field

