



## **Training on “Production of Organic Farm Produce and Supply Chain” in Collaboration with Dharuhera Organic Agro Farm.**

<b>Duration of Event</b>	:	27/03/2024 - 30/04/2024
<b>Venue</b>	:	Dharuhera Agro Pvt Ltd., Dharuhera, Haryana
<b>Event Type</b>	:	Visit (For Project)
<b>Mode of Activity</b>	:	Offline
<b>Target Group</b>	:	Students of B.Sc. Agriculture
<b>Recourse Person</b>	:	<b>Mr. Sanjay (Owner)</b> Dharuhera Agro Pvt. Ltd.
<b>Participants</b>	:	Students of KRMU.
<b>Convener</b>	:	Dr. Joginder Singh Yadav (Dean, SOAS)
<b>Faculty organizer</b>	:	Dr. Anjali Tomar & Dr. Deepak Loura
<b>Number of Participants</b>	:	67

### **Brief Report:-**

School of Agricultural Sciences, KRMU, in collaboration with Dharuhera Organic Agro Farm Pvt. Ltd., Dharuhera, Haryana organized a visit for one month project on “Training on Production of Organic Farm Produce and Supply Chain” at Dharuhera Organic Agro Farm Pvt. Ltd., Dharuhera, Haryana. The Purpose of the visit was to provide students the knowledge and skills required to successfully engage in the production of organic farm produce and manage an efficient supply chain. The program offered the students invaluable opportunities to gain hands-on experience on various aspects, including sustainable farming practices, organic certification process, crop management, post- harvest handling, and supply chain logistics. The objectives of the visit includes:

1. To provide students with comprehensive knowledge on organic farming, its principles, including soil health management, crop rotation and organic certification process.
2. To offer students hands-on experience in organic farming practices by engaging them in activities such as planting, harvesting and post-harvest handling.
3. To familiarize students with the intricacies of supply chain management in the context of organic farming.
4. To highlight the environmental and social benefits or organic farming practices.

## **Organic Farming:**

Organic farming is defined as the use of fertilizers of organic origin. Organic farming is a type of agriculture that depends on different natural techniques such as vermicomposting, crop rotation, green manure, animal husbandry, bio fertilizers and biological pest control. The organic farming is the form of crop cultivation with the using of organic manures which are eco-friendly that supports the life of soil and other useful organisms in the soil.

Organic farming is a method that places a strong accent on using organic matter to improve soil qualities, reduce the amount of the food chain that poses health risks, and achieve closed nutrient cycles. There are so many factors for development of sustainable agriculture. One of such technique for development of sustainable agriculture production is organic farming. It is a farming method that involves growing and nurturing crops without the use of synthetic based fertilizers and pesticides.

As India is known to traditionally been a country of natural and organic agriculture, with the hazardous effect of agro-chemical, modern scientific techniques, input intensive agriculture has pushed it to the wall. In forthcoming time with the increasing awareness among the farmers as well as consumers about the safety and quality of foods, long term sustainability of the agricultural land and accumulating evidences of being equally productive, the organic farming has emerged as an alternative system of farming which not only address the quality and sustainability concerns, but also ensures a debt free, profitable livelihood option for the most vulnerable section of Indian farming community particularly resource poor, small and marginal farmers.

## **Benefits of Organic Farming:**

- Reducing human and animal health hazards by lowering the level of residues in the product.
- Keeping agricultural production at an increasing level and making it sustainable.
- Lowering agricultural production costs and improving soil health.
- Ensuring optimum utilization of natural resources for short-term benefit and conserving them for future generations.
- It not only saves energy for both the animal and the machine, but it also minimizes probability of failure of crops.
- Enhances soil physical qualities such as granulation and excellent tilth, good aeration, easy root penetration, and increases water-holding capacity.
- It also improves the chemical qualities of the soil, such as nutrient supply and retention, and encourages favorable chemical interactions.

## **Event Highlights:**

## Visits and Interactions

Field visits were conducted to Dharuhera Agro Pvt. Ltd., providing students with direct exposure to organic farming practices. Key figures during these visits included:

- **Mr. Sanjay Yadav:** Managing Director of Dharuhera Agro Pvt. Ltd.
- **Mr. Yashpal Khol:** Farm Manager at Dharuhera Agro Pvt. Ltd.
- **Dr. J. S. Yadav:** Dean, SOAS, KRMU
- **Dr. Anjali Tomar:** Assistant Professor, SOAS, KRMU (Expert in Supply chain management).
- **Dr. Deepak Loura:** Assistant Professor, SOAS, KRMU (Expert in crop production).

## Components of Organic Farming

Mr. Sanjay Yadav and Mr. Yashpal Khola introduced the students to several key components of natural farming:

- **Jeevaamrit:** A microbial culture that enhances soil fertility, made from cow dung, cow urine, jaggery, pulses flour, and water.
- **Beejamrit:** A natural seed treatment mixture made from cow dung, cow urine, and lime, which protects seeds from soil-borne diseases.
- **Neemastra:** An organic pesticide made from neem leaves, cow urine, and other natural ingredients.
- **Ghan Jeevaamrit:** A solid form of Jeevaamrit used to enrich soil nutrients.
- **Brahmastra and Agniastra:** Other organic pesticides made from natural sources to protect crops from pests.

## Crop Production Techniques

**Dr. Deepak Loura** explained the cultivation techniques for various crops under natural farming. Key points included:

- **Avoidance of Synthetic Inputs:** Emphasis on not using synthetic fertilizers and pesticides.
- **Crop Examples:**
  - **Rabi Season Crops:** Wheat, mustard.
  - **Vegetables:** Watermelon, gourd crops.
- **Package of Practices:** Detailed guidelines on soil preparation, planting, maintenance, and harvesting of these crops under natural farming methods.

## Marketing and Processing

**Dr. Anjali Tomar & Mr. Yashpal Khola** provided insights into the marketing and processing of natural farming products:

- **Consumer Preferences:** Understanding the demand for natural and organic products.
  - **Market Trends:** Analyzing current trends in the organic market.
  - **Challenges:** Discussing the difficulties in promoting natural farming products.
  - **Processing Techniques:** Methods used to process and package natural farming products, ensuring quality and compliance with organic standards.
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- ❖ Throughout the project, students were engaged in learning the intricacies of organic farming, delving into topics such as organic sources of nutrients, crop cultivation techniques, marketing strategies, and supply chain management. Under the guidance of experts, they gained valuable insights into the complexities and benefits of sustainable agriculture.
  - ❖ Key highlights of the project include the exploration of organic sources of nutrients such as Jivamrit, Beejamrit, Neemastra, Agniastra, and Dashaparni, emphasizing their pivotal role in maintaining soil health and fostering sustainable agricultural practices.
  - ❖ One notable aspect of the event is the proactive involvement of students in gathering information through questionnaire forms from local farmers. This direct engagement enables a deeper understanding of the challenges and opportunities associated with transitioning to organic farming methods.
  - ❖ The event ended with a quiz session, in which Dr. Deepak Loura and Mr. Yashpal asked questions to students regarding their learning at Dharuhera agro organic farm, two students namely Ms. Jyoti and won the prize.
  - ❖ With the support of Dharuhera Organic Agro Farm Pvt. Ltd., students not only learned theoretical concepts but also actively contributed to real-world solutions for promoting eco-friendly agricultural practices in the region.

**Key Takeaways:**

- Enhanced understanding of organic farming principles and techniques.
- Proficiency in crop cultivation, pest and disease management, and post-harvest handling.
- Insight into the complexities of organic produce supply chain management.
- Practical skills in packaging, labelling, and marketing of organic farm produce.

**Conclusion:**

The project on Training of organic farm produce and supply chain in collaboration with Dharuhera Organic Agro Farms has been highly successful in achieving its objectives. Participants have gained valuable knowledge and skills that will enable them to contribute effectively to the organic farming industry. The collaboration with Dharuhera Organic Agro Farms has provided practical insights and real-world experiences, enriching the learning process. Moving forward, it is imperative to continue such initiatives to promote sustainable agriculture and organic farming practices for a healthier and more environmental friendly future.







