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**SHANTI DEVI ARYA MAHILA COLLEGE**

**Dinanagar (Distt. Gurdaspur)-143531**

ESTD. 1968

**Affiliated to GNDU, Amritsar | A Multi-Faculty Post-Graduate Women College**

Re-Accredited by NAAC with 'A' Grade

College with Potential for Excellence Status by UGC, Green Champion Award by MGNCRE (Govt. of India)



## **MEMORANDUM OF UNDERSTANDING**

Between

**SHANTI DEVI ARYA MAHILA COLLEGE**

**Dinanagar, Gurdaspur**



&

**OHRI NURSERY**

**Golden Avenue Colony, Dinanagar**

**143531**



## MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding ("MoU") is between Shanti Devi Arya Mahila College, Dinanagar and Ohri Nursery, Dinanagar.

Shanti Devi Arya Mahila College, Dinanagar, hereinafter referred to as "Party A" and Ohri Nursery, hereinafter referred to as "Party B" recognize the importance of promoting education and skill development in the field of Botany and Agriculture.

Party A seeks to enhance its educational offerings by providing practical training to students and Party B is a renowned grower and supplier of all kinds of plants.

Both parties wish to collaborate to provide quality education to students and spread environmental awareness in society.

Therefore, both the beneficiary parties agreed as follows:

### **Purpose**

The purpose of this MoU is to establish a collaborative partnership between Party A and Party B to promote environmental awareness, environmental sustainability and green initiatives. Students of Botany will also be benefitted by the technical training provided to them.



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## **Collaborative Activities:**

a. Tree Plantation Initiatives- Party B agrees to provide saplings and technical support for tree plantation initiatives organized by Party A within its campus and surrounding areas.

b. Educational Workshops- Party A agrees to organize educational workshops, seminars and awareness programs in local and surrounding areas on topics related to seedling cultivation, fertilizer management of vegetable crops, organic farming, horticulture practices, environmental conservation, gardening and sustainable living with the participation and support of Party B.

c. Exchange Programs- Party B agrees to facilitate visits and exchange programs for students and faculty of Party A, providing them with opportunities to gain practical experience in nursery management, seedling cultivation, organic farming, plant propagation and related activities.

d. Community Engagement- Party A and Party B agree to jointly engage with the local community to promote environmental awareness and encourage participation in green initiatives, such as community tree plantation events, gardening workshops and clean-up drives.

e. Promotion of Native Species- Both parties agree to prioritize the propagation and promotion of native plant species in their respective activities with the aim of conserving local biodiversity and supporting ecosystem health.

## **Funding:**

This MoU is not a commitment of funds by one partner organization to the other partner organization's activities.



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## Duration:

This MoU shall come into effect on the date of its signing by both parties and shall remain in force for a period of 12.03.2018 to 11.03.2021 (Two year and one year of Extension)], unless terminated earlier by mutual agreement.

Name of organisation	Date of signed MOU	Duration of MOU
Ohri Nursery, Dinanagar	12/03/2018	3 Years

## Amendments:

Any amendments or modifications to this MoU shall be made in writing and signed by authorized representatives of both parties.

## Termination:

Either party may terminate this MoU by providing one month notice written notice to the other party. Termination shall not affect any ongoing collaborative activities unless mutually agreed otherwise.

IN WITNESS WHEREOF, the undersigned, duly authorized representatives of Shanti Devi Arya Mahila College, Dinanagar and Ohri Nursery, Dinanagar have executed this MoU as of the date first above written.

**For OHRI NURSERY**  
Director *Vishal*  
Ohri Nursery, Dinanagar

*[Signature]*  
Principal  
Shanti Devi Arya Mahila College  
Dinanagar (Gurdaspur)  
Principal  
Shanti Devi Arya Mahila College, Dinanagar

## **Report on activities (2018-2021)**

### **Field visit – Ohri Nursery, Dinanagar**

### **Report of field visit to Ohri Nursery, Dinanagar**

Institute	Shanti devi AryaMahila college, Dinanagar
Department	Botany and Biotechnology
Activity	Field visit
Date	20/09/2018
Time	9:00 AM
Class	BSc (med) 2nd year&BSc (BT) 1st year
Participants	15
Faculty members	02

On **20/09/2018**, Botany and Biotechnology Department of Shanti Devi Arya Mahila college, Dinanagar organised a field visit to Ohri nursery, Dinanagar aimed to provide students with hands-on experience and practical knowledge about different plant families included in their curriculum. Upon arrival, students were greeted by nursery staff who provided an overview of the nursery's operations and the significance of plant diversity. Mr. Baldev Singh led students through the nursery, highlighting different sections of the plants including ornamental plant, medicinal plants, trees, indoor plants, succulents etc. Students were also given knowledge about plants such as diversity, morphology, vegetative and reproductive structure, and growth patterns. For practical experience students were given opportunity to observe, touch, and smell different types of plant by themselves, enhancing their theoretical knowledge.

## Angiosperm section



## Xerophytes



**OBSERVATION-** Throughout the tour, students engaged in interactive sessions with the guide, asking questions and sharing observations to deepen their understanding of plants. With this exposure students learned to observe, identify and categorize plants based on characteristics. Students also learned about the morphological diversity and ecological roles of different plant families, including their contributions to habitat diversity, soil health, and ecosystem resilience.

**OUTCOME -** The field visit to Ohri nursery, Dinanagar provided students with a valuable opportunity to explore the rich diversity of plant life and deepen their understanding of plant families and their significance. By combining practical experience with theoretical knowledge, the visit enhanced students' appreciation for the natural world and inspired a deeper curiosity towards plant sciences.

**PARTICIPANTS:**

<b>SNO.</b>	<b>NAME</b>
1.	JANVI MAHAJAN
2.	ANSHU
3.	NAMARTA SHARMA
4.	ANJALI
5.	SUKHMANPREET KAUR BHINDER
6.	SAPNA HANS
7.	ASHIMA BABAR
8.	RUPALI KUMARI
9.	MOUSAM SHARMA
10.	MANPREET KAUR
11.	NIVEDITA
12.	KAVNEET KAUR
13.	SWATISALARIA
14.	AKANKSHA SHARMA
15.	ISHA



## Exploration tour - Ohri nursery, Dinanagar

### Report of Exploration tour to Ohri Nursery, Dinanagar for selection of plants for college premises

Institute	Shanti devi AryaMahila college, Dinanagar
Department	Botany
Activity	Exploration tour
Date	28/01/2019
Time	10:00 AM
Class	BSc (med) 3rd year
Participants	10
Faculty members	02

On **28/01/2019**, a group of 10 students from Shanti Devi Arya Mahila College, Dinanagar embarked on an exploration tour to Ohri nursery as part of an initiative to enhance the greenery and aesthetics of our college premises. A briefing session was organised where Students were briefed by Mr. Baldev Singh on the types of plants suitable for the college environment, considering factors such as climate, soil conditions, and maintenance requirements. The main objective was to select and purchase suitable plants to enrich the environment and promote sustainability.

**Key learning-** Upon arrival, nursery staff provided an overview of the nursery's offerings and guided them through the various sections. Students actively engaged in selecting a diverse range of plants, including flowering shrubs, ornamental grasses, and indigenous species known for their resilience and low maintenance. After that, Nursery staff conducted an educational session on plant care, including watering schedules, soil preparation, and pest management techniques. Students had the opportunity to ask questions, seek advice, and learn about the environmental benefits of incorporating green spaces into urban settings.

## **EXPLORING DIFFERENT SECTIONS OF NURSERY**



## **ENGAGED IN LOADING ACTIVITY**



## **OUTCOME -**

Keeping in mind, the suitability, aesthetic importance, and budget the variety of plants were selected. Suitable transportation arrangements were made to ensure the safe transfer of plants from the nursery to the college premises. Students actively participated in loading and unloading of plants. Under the guidance of faculty members, students planted the selected plants contributing to campus beautification efforts.

The field trip to the plant nursery provided students with invaluable hands-on experience in selecting, purchasing, and planting plants for the college premises. Through active engagement and collaboration, students gained practical knowledge and the importance of green spaces in fostering a sustainable campus. This initiative not only enhances the aesthetic value of our college but also promotes a culture of environmental consciousness and responsibility among students and staff.

## **PARTICIPANTS:**

SNO.	NAME
1.	PRIYANKA SAINI
2.	SONIA
3.	HARWINDER KAUR
4.	PARKRITI
5.	TAMANNA DEVI
6.	SHIVANI
7.	SONIA
8.	KALPANA
9.	SNEHA SAINI
10.	BHANUPRIYA

## Hands on training activity at college premises

### Report of Hands on training activity on various plants propagation techniques

Institute	Shanti devi AryaMahila college, Dinanagar
Department	Botany and biotechnology
Activity	Hands on Training
Date	10/10/2019
Time	09:00AM
Class	BSc (med) and BT 3rd year
Participants	20
Faculty members	02

On **10/10/2019**, Botany and Biotechnology department of Shanti Devi AryaMahila college, Dinanagar organised a training session at college premises to provide students with practical training and hands-on experience to plant activities. This training session aimed at inculcating theoretical knowledge with real-world applications, enhancing students' understanding of plant biology and propagation techniques. For that purpose, Mr. Pawan singh from Ohri nursery, Dinanagar was invited.

**Objective -** As part of the curriculum, the main objective of the session was to demonstrate the basic nursery's operations like plant propagation techniques, nursery management techniques, hydroponics process, green house, soil maintenance etc.

#### **Key learning-**

- Plant propagation methods:

Learn to propagate plants using seeds and vegetative cutting.

- Hydroponics process

Identify unique methods of growing using nutrient medium.

- Green house

Understand the mechanics of green house and their importance for plants.

- Soil maintenance

Learn to identify different types of soil and their productivity.

- Nursery management techniques

## **TRAINING SESSION ON PROPAGATION TECHNIQUES**

### **STEM CUTTING**



## **SEED PROPAGATION**



### **Outcome –**

The field visit to the plant nursery proved to be a valuable learning experience for students, bridging the gap between theory and practice in education. They gained practical skills and hands-on experience. Overall, the field visit was a success, empowering students with the knowledge and confidence.

### **PARTICIPANTS:**

SNO.	NAME
1.	GAGANDEEP KAUR
2.	LOVEPREET KAUR
3.	APARNA SAINI
4.	AMAN SHARMA
5.	URVASHI
6.	JASNOOR KAUR KALER
7.	PARMINDER KAUR
8	LOVELEEN KAUR
9.	AMISHA

10.	JANVI MAHAJAN
11.	ANSHU
12.	NAMARTA SHARMA
13.	ANJALI
14.	SUKHMANPREET KAUR BHINDER
15.	SAPNA HANS
16.	RUBINA DHIMAN
17.	ADITI
18.	SHIVALIKA
19.	SUNAINA THAKUR
20.	SIMRANJEET KAUR

## On site learning activity - Ohri nursery, Dinanagar

### Report of On site learning activity for Study of common Angiosperms

Institute	Shanti devi AryaMahila college, Dinanagar
Department	Botany
Activity	On site learning
Date	13/03/2021
Time	09:00 AM
Class	BSc(med) and BT2nd year
Participants	15
Faculty members	01

On **13/03/2021**, Botany department of Shanti Devi AryaMahilaCollege, Dinanagar planned a visit to Ohri nursery, Dinanagar. After lockdown period, this seemed to be the best possible way to motivate students. The main purpose of the visit was real life learning by observation and study of various angiosperms, commonly known as flowering plants. Mr. Neeraj and Mr. Baldev Singh guided the students throughout the visit.

#### **Objective:**

The objective of the visit was to observe and study the morphology, diversity, and adaptations of angiosperms.

Observations and Findings:

#### **1. Morphology:**

- Observed various forms of leaves, flowers, and fruits among different species.
- Noted the diversity in leaf shapes, sizes, and arrangements.
- Examined flowers of different colours, sizes, and structures, including monocotyledonous and dicotyledonous flowers.



## 2. Diversity:

- Identified a wide range of angiosperm species, including trees, shrubs, and herbs.
- Observed how environmental factors influence the distribution of species within the nursery.

## 3. Adaptations:

- Investigated various adaptations such as thorns for protection, specialized roots for water absorption, and nectar guides for pollination.
- Examined the role of flowers in attracting pollinators and ensuring reproduction.

## Angiosperm section





## **OUTCOME –**

The visit to Ohri Nursery provided valuable insights into the morphology, diversity, and adaptations of angiosperms. By observing various species and their characteristics, a deeper understanding of plant biology and ecology was gained. Overall, the visit was informative and contributed to the understanding of angiosperm diversity and ecology.

**PARTICIPANTS:**

SNO.	NAME
1.	KOMAL SHARMA
2.	RAVINDER KAUR
3.	PRIYA SHARMA
4.	RIYA SAINI
5.	SIMRAN KAUR
6.	MANDEEP KAUR
7.	SHARDA DEVI
8.	KARINA
9.	SIMRANJIT KAUR
10.	PRIYANKA JAGGI
11.	SHEETU DEVI
12.	PARIKA GUPTA
13.	KOMAL
14.	SHRUTI
15.	ANKITA SAINI

Principal *Reena Talwar*  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)  
Principal  
Shanti Devi Arya Mahila College, Dinanagar