

# Horticulture Work Experiance

## HWE 101 (0+2)



***Group 4 Plot no.4***

- **Course instructor** : Dr. Ajaya Paliwal
- **Co- course instructor**
  1. Dr. Dinesh tiwari ( Deptt. Of MAP )
  2. Dr. Manju negi ( Deptt. Of fruit science )
  3. Dr. Mamta bohra( Deptt. Of flori. & landscaping )
  4. Dr. S.c. Pant ( Deptt. Of vegetable science )

## **GROUP MEMBERS**

Shweta ( leader )	Saurabh Bhatt	Abhishek
Digvijay ( co-leader)	Rahul Semwal	Bhawana
Priyanka Rana	Pankaj Rana	
Barkha Pandey	Hemant Belwal	



# WORK PROGRESS REPORT

- This report includes the management practices production technique followed for production cycles of horticultural crops.
- Total area allotted is 2000m<sup>2</sup> .
- Excluding pathways , irrigation channels , trenches ( 10%)



- **Section to be included in horticulture crop production : -**

1- Vegetable production.

2- Fruit crops – grafting and budding in apples, peach, walnut, etc.

3- Floriculture crop production.

4- medicinal and spices crops.



# Commencement of work

- (Date – 23-01-2016)

We were given instructions about the course in detail.





# January-February

- Cleared bushes and cut the large trees.
- Uprooted stumps.
- Ploughed fields.





# March

- Nursery preparation for Ashwagandha. Var. GI-134.
- Preparation of fields.
- Managing of undulating fields.



# Nursery preparation

- 16-04-2016 :- Marigold , capsicum .
- 15-05-2016:- Chilli .
- 25-06-2016:- Cabbage .





# Transplanting

- 29-04-2016:- Tomato is transplanted.  
Varieties are - Best of all , Sioux.
- 03-06-2016:- Marigold transplanting .
- 11-06-2016:- Chilli var. Byadagi
- 14-06-2016:- Bottle gourd and Sponge gourd.
- 15-06-2016:- transplanting of chilli var. is Pant C-1

# TRANSPLANTING

- 18-06-2016:- Brinjal transplanting  
var. – PPC × Arka kusumkar
  
- 24-06-2016:- Brinjal is transplanted  
(var.- Arka shirishkar × Arka neelkanth )  
(var.-Arka nidhi × PPC)



# Spacing for vegetables

- Fenugreek-- 20cm ( line to line)
- Tomato-- 60×45cm
- Brinjal– 60×30cm
- Chilli– 40×30cm
- French bean-- 30×30cm

# Spacing for map and spices

- Ginger – 60×30cm
- Coriander-- 30×10cm



# Spacing for floriculture crops

- Gladiolus-- 40×30cm
- Chrysanthemum- 30×30cm

# Date of sowing:-

- 09-04-2016:- Fenugreek and radish .
- 16-04-2016:- Gladiolus var. Michigan.
- 19-04-2016:- long melon(kakri), Bittergourd ,  
Spinegourd(Ram karela).
- 20-04-2016:- Okra , coriander .
- 07-05-2016:- Ginger.



- 15-06-2016:- Ginger.
- 18-06-2016:- Beans (pole type).
- 20-06-2016:- French bean.
- 22-06-2016:- Spinach.
- 25-06-2016:- Beans, Pumpkin.
- 26-06-2016:- Beans.
- 28-06-2016:- Radish.
- 29-06-2016:- Spinach.
- 30-06-2016 and 01-07-2016:-  
Chrysanthemum (var. Dolly white and Baggi ) , Gaillardia .



# Work progress

**14-06-16**

- Field preparation and transplanting of bottle gourd and sponge gourd

**15-06-16**

- Preparation of 1 plot and transplanting of brinjal

**18-06-16**

- Preparation of 2 plots, transplanting of brinjal and sowing of beans.

**19-06-16**

- Sowing of maize

**20-06-16**

- Preparation of 2 fields , sowing of beans ( Rajma )

**21-06-16**

- Prepared 1 field , liming in ginger , sowing of cucurbits

**23-06-16**

- Preparation of 1 field

**25-06-16**

- Prepared cabbage nursery , sowing of beans



**26-06-16**

- Prepared 1 bed for beans
- Sowing of beans

**28-06-16**

- Radish sowing , staking in cucurbits , weeding in chilli

**29-06-16**

- Prepared 1 plot , sowing of spinach

**30-06-16**

- Planting of chrysanthemum
- Planting of gaillardia

**1-07-16**

- Planting of cucurbits
- Bed preparation for chrysanthemum

# Irrigation on respective days

- 04-04-2016 irrigation is given to Ashwagandha nursery
- 05-04-2016 irrigation as before on Ashwagandha
- 08-04-2016 irrigated Ashwagandha nursery
- 10-04-2016 irrigation is given for fenugreek , radish , Ashwagandha .
- 11-04-2016 irrigated the fields of radish and fenugreek.
- 12-04-2016 irrigated as before
- 14-04-2016
- 19-04-2016 irrigation is given to cucumber , bittergourd, ram karela ( spine gourd )
- 23-04-2016 irrigated cucurbits , radish and others crops
- 25-04-2016 same as above
- 28-04-2016 same as above
- 29-04-2016 irrigated tomato seedling on first transplanting

# Irrigation

- 07-05-2016
- 08-05-2016
- 09-05-2016
- 15-05-2016
- 16-05-2016
- 18-05-2016
- 21-05-2016
- 22-05-2016
- 29-05-2016
- 03-06-2016



- 05-06-2016
- 09-06-2016
- 10-06-2016
- 11-06-2016
- 14-06-2016
- 15-06-2016
- 18-06-2016
- 20-06-2016
- 22-06-2016



# Intercultural operations

- 29-04-2016:- Hoeing in fenugreek.
- 08-05-2016:- Mulching in Ginger.
- 15-05-2016:- Weeding in Fenugreek.
- 3-06-2016 :- fungicide spraying on tomato
- 11-06-2016:- Staking and netting in tomato.
- 21-06-2016 :- liming in ginger
- 28-06-2016:- Staking in Cucurbits.





# Area covered by vegetables

- Fenugreek – 54m<sup>2</sup>
- Chilli- 65m<sup>2</sup>
- Tomato- 68m<sup>2</sup>
- Cucurbits- 150m<sup>2</sup>
- Frenchbean – 45m<sup>2</sup>
- Pole type beans- 40.5m<sup>2</sup>
- Brinjal- 50m<sup>2</sup>
- Okra- 10m<sup>2</sup>
- Spinach-15m<sup>2</sup>
- Radish-25m<sup>2</sup>
- Cabbage-5m<sup>2</sup>
- Total area under vegetables– 527.5m<sup>2</sup>



# • Fenugreek

- Date of sowing :09-04-2016
- Seed rate : 200 gm
- Spacing : 20 cm ( line to line )
- Method of application : line sowing
- Intercultural operation : Hoeing on 19-04-2016  
Weeding on 15-05-2016
- Harvesting : 24-06-2016 1<sup>st</sup> harvesting





# Pod harvesting of fenugreek





# • Tomato

- Date of transplanting : 29-04-2016
- Variety : SIOUX , BEST OF ALL
- Spacing : 60×45cm





# Staking in tomatoes





# Spray of Mencozeb as remedy for early blight





# Problems occurred during management of tomato





# Beans pole type

- Date of sowing : 18-06-2016
- Variety: local variety of Bharsar region





# French beans

Date of sowing :  
25-06-2016

Variety :  
local variety of  
Harshil





# • Brinjal

- Date of planting :  
18-06-2016 and 24-06-2016
- Variety  
PPC × Arka kusumkar
- Spacing : 30×30 cm<sup>2</sup>





Other crops such as chilli , Bottlegourd, okra , kakri ,sponge gourd, Ram karela are also grown as a part of vegetable production .









# Area covered by floriculture

- Marigold- 15m<sup>2</sup>
- Gladiolus- 38m<sup>2</sup>
- Chrysanthemum- 45m<sup>2</sup>
- Gaillardia- 25m<sup>2</sup>
- Total area under floriculture- 123m<sup>2</sup>



# Gladiolus planting





# Marigold planting



# Chrysanthemum planting





# Area covered under Medicinal and spices

- Ginger- 110m<sup>2</sup>
- Coriander- 16m<sup>2</sup>
- Total area under map and spice – 126m<sup>2</sup>
- Area covered under other crops:-
- Maize- 22.5m<sup>2</sup>

# • Ginger





Area covered under other crops:-

Maize- 15m<sup>2</sup>



# Total area under cultivated plot

- For vegetables:- 527.5 m<sup>2</sup>
- For floriculture:- 123 m<sup>2</sup>
- For map and spices:- 126 m<sup>2</sup>
- other crop :- 22.5 m<sup>2</sup>

Total area = 799 m<sup>2</sup>

## Total area recovered under cultivation

Total area = total length × total width

$$60 \text{ m} \times 25 \text{ m} = 1500 \text{ m}^2$$



# Other activities

- Our co- course instructor (Deptt. Of fruit science) Dr. Manju negi give us instructions about the fruit section which includes
- Budding operation in peach
- Nursery management practices in apple
- Field is also allotted for above practices.



# Other activities

- Our course instructor Dr. Ajaya Paliwal also visited our field for field inspection .
- Our co- course instructor Dr. Vijay Kumar given us some useful instruction about mushroom cultivation
- Our co- course instuctor Dr. Ghanshyam Abrol help us for starting the work of post harvest section.









*Thank You*



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