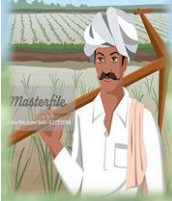


WELCOME

Farmers : We feed the world



COLLEGE OF HORTICULTURE
V.C.S.G UTTARAKHAND UNIVERSITY OF HORTICULTURE & FORESTRY
BHARSAR, PAURI GARHWAL, UTTARAKHAND – 246 123

RURAL HORTICULTURAL WORK EXPERIENCE

"THE ONLY SOURCE OF KNOWLEDGE IS EXPERIENCE"

-Albert Einstein



GROUP MEMBERS :-

Saurabh Bhatt : 13029
 Rahul Purohit : 13032
 Hemant Belwal : 13033
 Rajendra Bhatt : 13034
 Rehan Azmi : 13035



❑ Principles of RAWE/RHWE Programme :

- ❖ Go to the people and live with them
- ❖ Learn from them and Serve them
- ❖ Work and plan with them
- ❖ Start with what they know.

❑ Expected Outcome of RAWE/RHWE Programme :

1. Personality development.
2. Art of listening .
3. Confidence building.
4. Develop skill of joint effort (community management).

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□ OBJECTIVES :

- ✓ To understand the rural community life and the prevailing situation.
- ✓ To familiarize the students with the rural socio-economic conditions.
- ✓ To provide an opportunity to the students to have practical training.
- ✓ To improve communication skills.
- ✓ To using extension teaching methods in transfer of technology.

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- ✓ To develop confidence and competence in students for handling professional problems.
 - ✓ To make the students understand the changed role of rural men and women in agricultural and allied fields.
 - ✓ To explore the high-tech agricultural technology and the factors affecting the adoption of modern methods of agriculture.
 - ✓ To initiate awareness, understanding and skills about horticulture, agro forestry, processing, marketing etc.
 - ✓ To know the techniques / know how to prepare and develop.

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❑ Interaction with farmer :-

- Visit villager's home.
- Visit their field.
- Tried to know their agricultural problems and allied practices.
- Used to find their solutions.
- Rectify it by providing them appropriate measures like insecticide if possible.



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❑ History :

- Establishment of village-1901
- The whole land purchased by Chauffin from Britishers.
- Village contains two Britishers' Bungalow.
- Tea was the former crop cultivated here.
- English man Henry was a famous head of Tea orchard.
- Village is dived into 2 parts :-
 1. Talli Museti- Britishers used to live there
 2. Malli Museti- This was warehouse of the Britishers

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□ Daily Diary

S. No.	Date	Work Done
1	26.09.16	<ul style="list-style-type: none"> • Allotment of farmer and distribution of village area
2	27.09.16	<ul style="list-style-type: none"> • Information about history of village • Mulching, winnowing, & threshing
3	28.09.16	<ul style="list-style-type: none"> • Preparation of onion nursery • Started preparation of vermicompost pit
4	29.09.16	<ul style="list-style-type: none"> • Filling of vermicompost pit • Establishment of light trap
5	30.09.16	<ul style="list-style-type: none"> • Meeting with agriculture officer • Organized contests like- Quiz, Handwriting, Essay writing, Singing competition • Planting of ornamental plants
6	01.10.16	<ul style="list-style-type: none"> • Establishment of Compost pit • Build up Polytunnel Frame • Brought fodder grass (Napier)
7	02.10.16	<ul style="list-style-type: none"> • Preparation of nursery (inside and outside poly tunnel for comparison) • Establishment of fodder block • Establishment of basins for citrus & apple plants • Covering of compost pit with red soil

8	03.10.16	<ul style="list-style-type: none"> • Established mud hive • Establishment of vermi wash • Harvesting of Amaranthus
9	04.10.16	<ul style="list-style-type: none"> • Preparation of Bhimal cuttings and planting in nursery • Provided shade for vermi compost pit • Preparation of onion nursery and seed treatment
10	05.10.16	<ul style="list-style-type: none"> • Made channels around mud hive • Pruning in citrus and apple • Chopped straw and dipped them in water
11	06.10.16	<ul style="list-style-type: none"> • Preparation of chilli pickle • Establishment of mushroom unit • Demonstrated a small poultry farm • Planted Kutki and Kuth
12	07.10.16	<ul style="list-style-type: none"> • Established yellow sticky trap • Data collection and surveyed. • Established Zero energy cool chamber
13	08.10.16	<ul style="list-style-type: none"> • Landscaping in front of Musethi village • Shramdaan
14	09.10.16	<ul style="list-style-type: none"> • Preparation of field for garlic • Seed distribution • Tagged Bird repellent strip in apple trees
15	10.10.16	<ul style="list-style-type: none"> • Final Demonstration • Pamphlet distribution

VILLAGE : **MUSETI**
POST OFFICE : **KAFALD**
BLOCK : **THAILISAIN**
DISTRICT : **PAURI GARHWAL**

Pradhan : Mrs. Hemlata Negi

Pragatisheel Award : Mr. Suresh Chandra



❑ Village Statistics :

- Total geographical area : 152 ha.
- Total cultivated area : 36 ha.
- Altitude : 1800m above mean sea level
- Total no. of family : 121
- Total ration card holder : 121
- BPL : 28
- APL : 15
- National food scheme : 78



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-
- Aaganwari : 2
 - Total no. of polyhouse : 3
 - Total no. of irrigation water tank : 7
 - Total population : 1050
 - Male : 425
 - Female : 290
 - Children : 325
 - Temple : 1
 - Govt. food supplier shop : 1
 - Literate : 945 (90%)
 - Illiterate : 105 (10%)



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-
- Total army person : 46
 - Total Teachers : 7
 - Total railway workers : 3
 - Total aanganwadi worker : 2
 - Total no. of school : 2
 - Total no. of panchayat house : 2
 - Total employee under MGNREGA : 114 (male – 30) (female- 84)
 - Wages : Rs. 174 / day.
 - Pradhan employed the scheme **'MY VILLAGE MY ROAD**



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□ PET ANIMALS :

NAME OF ANIMALS	STRENGTH
cow	20
Buffalo	80
Goat	265
Ox	23 PAIR
Sheep	70
Hen	72
Rabbit	21

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□ Implements :



Billhook



Danala

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Stick used for threshing

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Wild bamboo basket

❑ CROPPING PATTERN :

season	AGRI. CROP	HORTI. CROP
Kharif	Paddy, jhangora, ragi , urad, soybean, rajma, gahat,	Onion, garlic, potato, tomato, chaulai
Rabi	Wheat, barley, lentil, mustard	cabbage, cauliflower, palak, radish
zaid	--	Cucumber, pumpkin, bottle gourd, bittergourd, spinegourd, ridgegourd, cowpea

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□ Major agricultural problems :

- Less contact with scientist and agriculture department.
- Less awareness in sustainable agriculture.
- Lack of transportation and marketing.
- Storage problem.
- Problem of white grub.
- Problem of wild animal.

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□ CONTENTS :

- | | |
|------------------------------|-------------------------|
| 1. VERMICOMPOST | 12. PRUNNING |
| 2. COMPOST | 13. INSECT CONTROL TRAP |
| 3. POLYTUNNEL | 14. CHILLI PICKLE |
| 4. MUD HIVE | 15. LANDSCAPING |
| 5. NURSERY PREPARATION | 16. PLANTING |
| 6. MUSHROOM UNIT | 17. QUIZ |
| 7. ZERO ENERGY COOL CHAMBER | 18. POULTRY FARM |
| 8. MULCHING | 19. THAWALA PREPARATION |
| 9. FODDER BLOCK | 20. SHARMDAAN |
| 10. VERMIWASH | 21. OTHERS |
| 11. BHIMAL CUTTING & NURSERY | |

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☐ Others

- a)Seed Treatment
- b)Contact with press media
- c)Meeting with agriculture officer
- d)Card making
- e)Seed Distribution
- f) Free Tution class

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☐ VERMICOMPOST : (Narendra Singh Negi)

Pit size: 3m X 1m X 1m



Site Cleaning

28 Sept. 2016



Construction of Pit walls



29 Sept. 2016

Laying out polythene base to prevent nutrient losses

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VERMICOMPOST (Continued)



Pit filling with dry



Pit filling with cow dung

grass



Pit filled with cowdung



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Covering of pits by canvas for protection from rainwater



COMPOST : (Mr. Mayaram Pokhriyal)

1 Oct. 2016



Digging of compost pit

Pit size: 2m X 1m X 0.75m



Removal of stones and gravels



Covering base with poly bags

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Covering base with dry grass



Filling of pits with cowdung



Covering of compost pit with red soil paste

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□ POLYTUNNEL :: (Mr. Mayaram Pokhriyal) 1 Oct. 2016



Preparing structure of Portable Polytunnel



Covering polytunnel (2.5m X 1m) with polythene sheet



Preparing nursery for polytunnel

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2 Oct. 2016



Covering nursery with straw mulch.

□ MUDHIVE : (Mrs. Jamuna Devi) 3 Oct. 2016



Constructing base of mud hive



Constructing walls of mud hive

Dimension:
45cm X 30 cm X 35cm



Constructing trenches around mud hive to prevent from ants

ONION NURSERY PREPARATION : (Mr. Harendra Singh)



Soil Preparation



Land Preparation
Bed size: 2m X 1m X 0.15m



Line preparation

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28 Sept. 2016



Line Sowing



Manure application



Nursery Bed



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Irrigation



Germination of Onion Seedling

❑ MUSHROOM UNIT (Dhingri mushroom) :



Chopping of paddy straw



Straw dipped overnight in water



Drying of straw



Formalin & Bavistin treatment

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(Mr. Mayaram) 5 Oct. 2016



Bag filling (with straw)



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Shifting of bags



❑ ZERO ENERGY COOL CHAMBER : (Mr. Mangal Singh)



Construction of base



Construction of walls



Sand and water filling in between walls



Providing information to farmer

❑ Dimension:

- 165cm X 115cm X 67.5cm
- Space between walls: 7.5cm

❑ Principle: Evaporative cooling

- Peak summer temp. : 17-18°C
- Humidity: 95%

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Complete energy cool chamber with shed

❑ MULCHING : (Mr. Narendra Singh)



Mulching in Apple plants with pine needles.

27 Sept. 2016

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❑ FODDER BLOCK : (Mrs Jamuna Devi)



Napier field preparation



Napier planting



Water application

- ❑ Spacing: 50cm X 50cm
- ✓ Good soil binder
- ✓ Deep rooted
- ✓ Fast growing
- ✓ Nutritious

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2 Oct. 2016

❑ VERMIWASH : (Mr. Mayaram)

3 oct ,2016



Stone and gravels



Sand



Earthworm



Cowdung



Straw



Vermiwash

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❑ BHIMAL CUTTING & NURSERY : (Mr. Narendra)



Selection of branches for cutting



Cutting preparation (Hardwood and softwood)



Waxing



Preparing nursery



Lining



Planting of cutting

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4 Oct. 2016

Rooting hormone treatment of cutting



Dipped cutting in rooting hormone



Rooting hormone (IBA)



Planting



Irrigation

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□ PRUNNING :



- Removal of diseased, unproductive and scaffold branches

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5 oct, 2016

□ INSECT CONTROL TRAP (mechanical method) :



Mr. Harendra Singh



Establishment of Light trap



29 Sept. 2016



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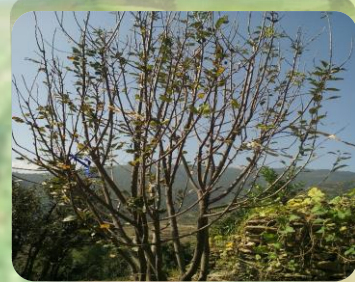
❖ Yellow Sticky Trap & Bird repellent :



Mr. Narendra



9 Oct. 2016



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❑ CHILLI PICKLE : (Mr. Narendra) 6 Oct.2016



Cutting



Drying



Frying



Grinding



Mixing of ingredients



Chilli pickle

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LANDSCAPING : (Museti village)

8 Oct. 2016



Site Selection



Pebble collection



Village name



Planting



White washing of stones



Villagers with final Landscape :



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□ PLANTING : (30 Sept. & 6 Oct. 2016)



Planting in school



Planting in temple



Planting at villager's home

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Place where planted	ORNAMENTAL / MEDICINAL	TOTAL PLANT
SCHOOL	THUJA	10
	HYDRANGEA	10
TEMPLE	THUJA	5
	HYDRANGEA	5
LANDSCAPING	SEDUM	2
	SAMBUCUS	3
	THUJA	3
	HYDRANGEA	1
AT HOME	ECHIVERA	2
	KUTKI	10
	KUTH	5
TOTAL	OCIMUM	5
		61

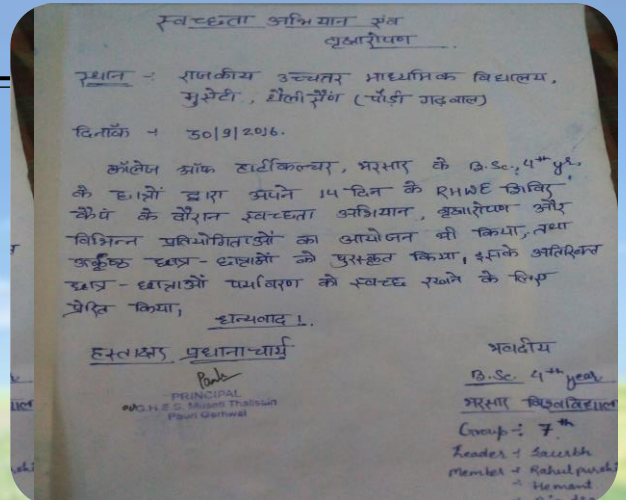
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❑ QUIZ :

30 Sept.2016



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Prize distribution

Report

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POULTRY FARM : (Mr. Mayaram)

6 Oct. 2016



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Basin Preparation : (Mrs. Jamuna devi)



Citrus



Apple



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2 Oct. 2016

SHRAMDAAN :

(8 Oct. 2016)



Generating awareness among villagers.

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Other Activities :



Seed treatment

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□ CONTACT WITH PRESS MEDIA :



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30 Sept. 2016

□ Meeting with Agriculture Officer : (Thailisain)



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30 Sept. 2016

❑ Card making :



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❑ Seed distribution :

(9 Oct. 2016)



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❑ Free tuition classes :



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❑ Interaction session :

(10 Oct. 2016)



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❖ Final demonstration



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❑ WHAT WE HAVE LEARN:-

✓ People were very hardworking.



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✓ We learnt some traditional method.



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✓ Curious to learn new things .



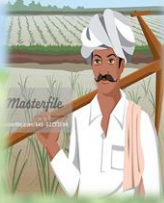
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THANK YOU

Special thanks :-

- ❖ To KVK scientist
- ❖ College Faculty



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