



RURAL HORTICULTURE WORK **EXPERIENCE** **HWE-100**

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

RURAL ATTACHMENT
26/09/2016 TO 10/10/2016

VILLAGE - KAINYUR



22 October 2016

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RURAL HORTICULTURAL WORK EXPERIENCE - HWE -100

GROUP MEMBERS :-

COURSE COORDINATOR :-

- 1. RAJNISH RAI 13036**
- 2. SHUBHAM 13037**
- 3. DIGVIJAY 13039**
- 4. ABHISHEK 13040**
- 5. NTTIN 13041**

Dr. AJAYA PALIWAL

22 October 2016

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MAIN OBJECTIVES OF RHWE PROGRAMME:

- *Students possess theoretical knowledge; needs practical orientation*
- *To familiarize the students with socio economic conditions of rural community.*
- *To develop interpersonal, group and mass communication skills in students*

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- *To interact and coordinate with Farmers .*
- *To develop confidence and competence among students for*
 - *Problems solving*
 - *Decisions making*
 - *Transfer of technology*

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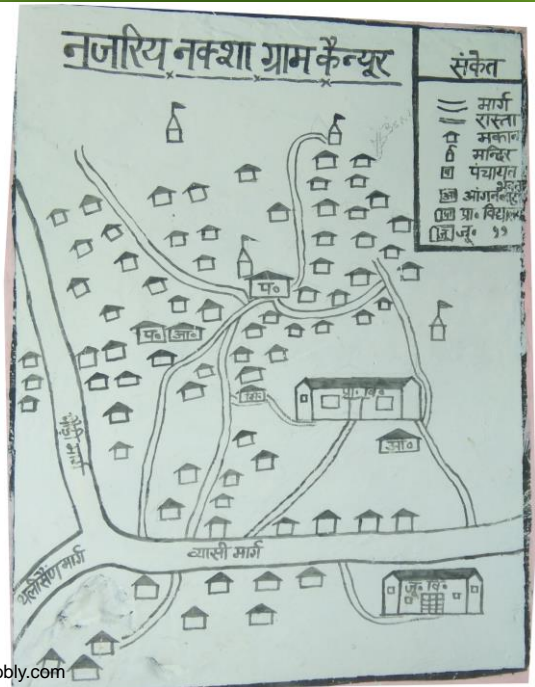
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OUR VILLAGE

- ❖ *Name of village- Kainyur*
- ❖ *Block- Thailisain*
- ❖ *District- Pauri Garhwal*
- ❖ *Village Pradhan – Mr. Anand singh*
- ❖ *No. of house hold - 487*
- ❖ *Male Population - 1177*
- ❖ *Female Population - 1069*
- ❖ *Sex ratio – 908 / 1000*
- ❖ *literacy - 77.6 %*
- ❖ *Anganwari - 3*
- ❖ *Primary school - 2*
- ❖ *Inter college- 1*

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CROP PATTERN

Kharif	Rabi	Summer
Paddy	Wheat	Cucurbits
Mandua	Mustard	(Pumpkin ,
Jhangora	Barley	Ramkarela,
Gahat	Onion	Bottlegourd etc.)
Amaranthus	Pea	
	lentil	



FINGER MILLET FIELD VISIT



AMARANTHUS



- **Soil type : Sandy soil**
- **Other agricultural undertakings :**
 - Dairy farming**
- **Non-agricultural undertakings :**

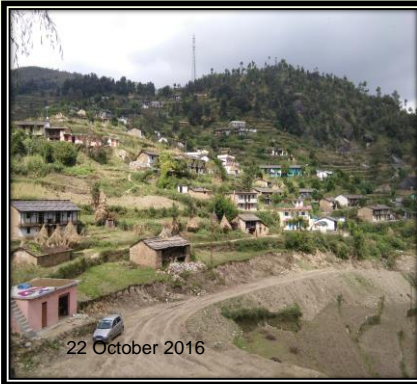
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Local shops

VISIT TO VILLAGE & INTERACTION WITH FARMERS :-

- Tried to know their agricultural problems and allied practices.
- Used to find solutions for their problem .
- Rectify it by providing them appropriate measures.
- From all these we can get practical knowledge.



OUR PRACTICAL OBSERVATION

1. People are curious about new agricultural technologies.



2. Most of the farmers economically depend on agriculture.

3. Most of farmer facing lot of problem in cultivation practices

eg:



1.Types of cultivation

2.Adoptation of new Varieties for eg. Problem in adopting a var. parmeva of Jhangora due to which problem such as itching during harvesting and abortion of cows were arising.



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4. We observed the cropping pattern followed by the farmers in that village.

5. Types of fields- 1. Rainfed



6. Most of the vegetables are grown in kitchen garden.



7. Conventional farming is dominant.



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❖ Major Agricultural Problems:

What we had suggest to farmers

➤ Problem of insect pest (eg. white grub & white fly.)



➤ Application of Insecticides
eg: Phorate CG for white grub.

➤ Problem of diseases (eg. damping off & late blight.)



➤ Spray of Mencozeb M-45 (25 gm in 10 Litre of water) as fungicidal action for late blight.

➤ lack of irrigation facilities.



➤ Make rain water harvesting tanks.

➤ Less awareness about new techniques



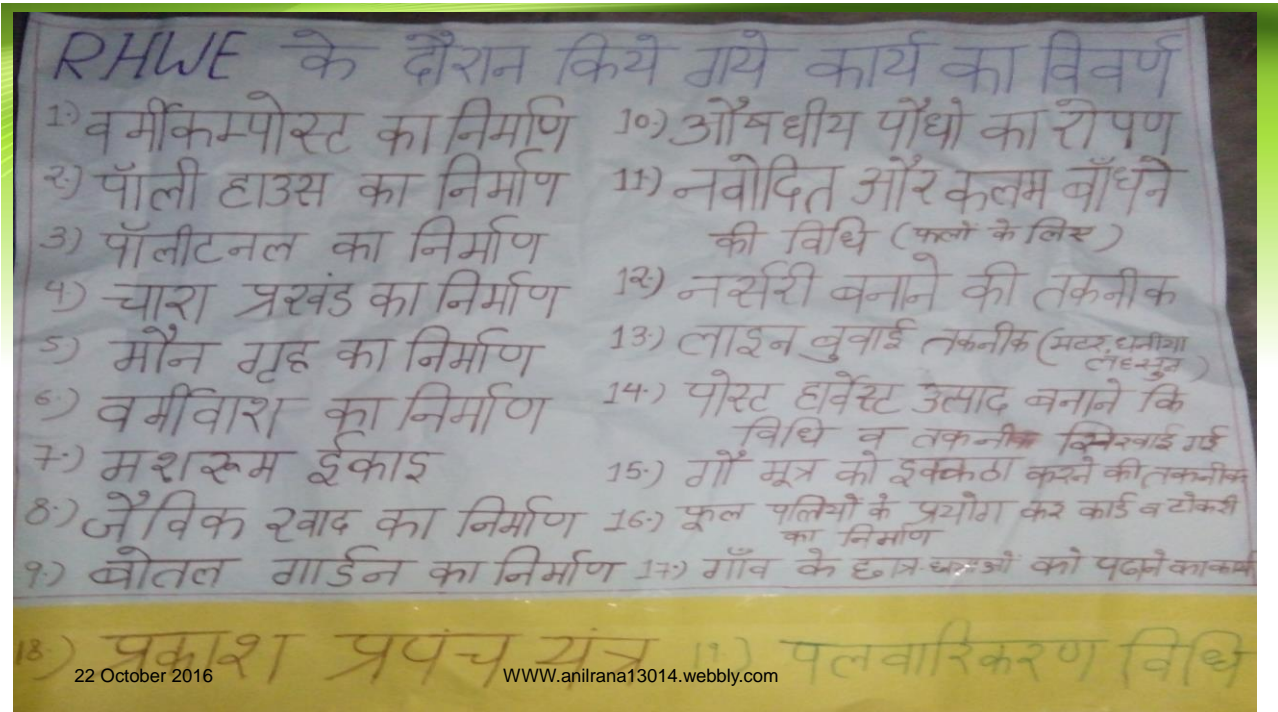
➤ Give demonstration & told them about new technology.

➤ Natural Calamities

➤ Post Harvest Handling problems i.e. Unavailability of proper storage facilities.

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DATE	WORK DONE
26/09/2016	Visit to village and interaction with farmer.
27/09/2016	1. Meeting with our farmer Mr. Trilok Singh and talked about their cropping pattern. 2. Visit to farmer field and harvesting & threshing of finger millet.
28/09/2016	1. Preparation of nursery bed for onion. 2. Talked about their field related problems such as problem of jhangora variety parmeva which causes itching on skin of farmers while harvesting and causes problem of abortion in cow / buffalo . 3. Demonstration on how to make handicrafts from Pineneedles & wheat straw.
29/09/2016	1. Initiated the work of vermi composting. we first measure the dimension of vermipit. Remove undecayed cowdung from the pit.
30/09/2016	1. Started the work of polytunnel. (seed sowing of onion) 2. Planting of cinnamon. 3. Demonstration of mushroom production
01/10/2016	1. Visit to Agriculture & Horticulture Department (Block : Thailisain) (in morning time). 2. Organize Essay Competition in school (after lunch in 1-2:30 pm)
02/10/2016	1. Programme on Swachh Bharat Abhiyan & Landscaping of Public Place 2. Planting of Napier grass at the fields of Mr. Trilok singh & Mr. Vikram singh. 3. Collection of Raw materials for Polyhouse. (includes wild bamboo for upper frame work, thick pieces of wood for base construction, polythene sheet etc.)

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DATE	WORK DONE
03/10/2016	Initiated the work of polyhouse. Seed distribution by KVK BHARSAR.
04/10/2016	Field demonstration on spray of insecticide for management of white grub. Line Sowing of Pea in the filed of Mr. Nandan singh.
05/10/2016	Preparation of nursery bed for onion broccoli & red cabbage inside the polyhouse.
06/10/2016	Preparation of vermi wash & demonstration on PHT (chilli pickle and ragi sweets)
07/10/2016	Preparation of Bee hive. Prepared light trap & yellow sticky trap. Prepared Pit trap.
08/10/2016	Collected raw materials for bottle garden & Preparation of bottle garden. Demonstration on grafting & cutting.
09/10/2016	Making of fym pit , planting of medicinal & ornamental plants.
10/10/2016 22 October 2016	Final demonstration to the farmers WWW.anilrana13014.webbly.com

WORK DONE DURING RHWE PROGRAMME



❖ UNIT 1st (Vermi compost)

Farmer name – Mr. Trilok singh
DATE – 29 / 9 / 2016
Dimension of the pit- 3m×1m×1m



Layer1.Filling of pit with cow dung



2.layer of crop residue



3.layer of cow dung



4.layer of green leaves



5.layer of cow dung & finger millet waste



6.layer of cow dung
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Mixing of earthworms



Spreading of straw at the end



Preparation of Roof Structure



Shade Management in Vermi Compost Pit
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UNIT 2nd (mini polyhouse)

Farmer name – Mr. Trilok singh
DATE – 03 / 10 / 2016



Selection of site

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Construction of base with the help of wooden logs

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Construction of roof with the help of wild bamboo sticks



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UNIT 3rd (nursery preparation in polyhouse)

Date of nursery preparation
05 / 10 / 2016



Measurement of nursery

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Preparation of raised bed

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line sowing of red cabbage, broccoli & onion inside the Polyhouse

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UNIT 4th (Mushroom Cultivation)

Farmer name – Mr. Trilok singh
Date – 30 / 9 / 2016



chopping of paddy straw

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Dip the chopped straw in water for 1 day after 1 day sun dry the treated straw then treat it with solution of Bavastin & formalin

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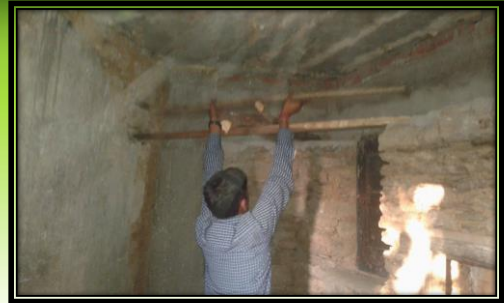


Addition of Spawn



Filling of bags

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Selection of Site



Placement of Mushroom bags in Selected Site

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UNIT 5th (Polytunnel)

Farmers name :
Mr. Nandan Singh,
Mr Trilok Singh &
Mr Kuldeep Singh negi
Date : 30/09/2016 &
02/10/2016



Levelling of bed & preparation of line



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line sowing of cabbage , broccoli & onion



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Making of Structure

Final Polytunnel

UNIT 6th (FYM Pit)

Farmer name – Mr. Kuldeep singh

DATE – 09 / 10 / 2016

Dimension of the pit-
1.5m × 1m × 1m



Pit Digging

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Filling of Pit



Plastering with Mud & Cowdung

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UNIT 7th (TRAPS)

Farmer name – Mr. Trilok singh

DATE – 07 / 10 / 2016

(A) light trap



Making of trap

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Prepared trap

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Placement of trap

(B) yellow sticky trap



Preparation of Sticky Trap



Placing of Sticky Trap

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(C) Pit Trap



Collection of Cow Dung

Pit Digging



Final Pit Trap

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UNIT 8th (Vermi-wash)

Farmer name – Mr. Nandan Singh
DATE – 06 / 10 / 2016



selection of box

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1.layer of stone

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2.layer of sand



3.layer of soil

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4.fym with native of earthworms



5.layer of cow dung



6.layer of crop residue



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Implimentation of Vermiwash

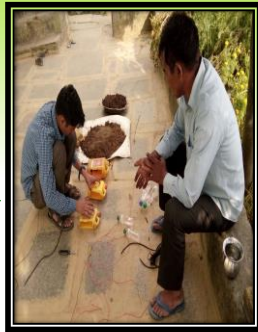
UNIT 9th (Bottle Garden)

Farmer name –
Mr. Nandan singh ,
Mr. kuldeep singh
DATE – 08 /10/ 2016



Cutting of bottles

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Arrangement of bottles

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Filling of bottles



Implementation of Bottle garden

UNIT 10th (Bee hive)

Farmer name –
Mr. Trilok singh
DATE – 07/10/2016



Cut wooden board for making of sidewalls

Making of bee hive

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Construction of side walls by the help of needles & hammer.

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Final bee hive

UNIT 11th (Nursery Preparation of Onion)

Farmer name – Mr. Trilok singh (Date : 28/09/2016)



Preparation of Raised bed



Teach about Spacing



Line Making



Line Sowing



Mulching



Irrigation

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UNIT 12th (post harvest) (A) Finger millet laddu

DATE – 06//10/2016



Material required :
Ragi flour ,Ghee,
Powdered Sugar ,Dry
Fruits

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STEP: Heat Ghee in a Kadai after 5 min pour ragi flour and properly cook it till brown colour appears



STEP : Add powdered sugar 250- 300gm for 1kg flour



STEP : After completion make laddu with the help of hands.

Prepared sweets of Ragi



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(B) chilli pickle



Select fresh chillies for cutting

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Cut the chillies with the help of knife



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Addition of spices



Addition of oil at the end



Filling in container

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UNIT 13th (Fodder block)

Farmers name : Mr. Vikram singh , Mr.Kuldeep singh
Mr. Trilok singh

DATE - 04/10/2016



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UNIT 14th (Line sowing)

Farmers name : Mr. kuldeep singh & Mr. Nandan singh
DATE – 04/10/2016

(A) pea



Ploughing



line Making



Sowing of seeds



Irrigation of field

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(B) Garlic

Farmers name : Mr. Nandan singh & Mr. Trilok singh
DATE – 04/10/2016



Field Preparation



Line Making



Sowing of Seeds

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UNIT 15th Planting of MAP & Ornamental plants



Farmers name :
Mr. Nandan singh &
Mr. Rajveer rawat
DATE – 09/10/2016



Aloevera

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Cinnamon

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Irrigation

Advantages



ALOE VERA

1) It is rich in anti-oxidants which means it helps to cut out free radicals in the body and boost your immunity.

2) Contains Proteolytic enzyme which repairs dead skin cells on the scalp .

3) Act as conditioner to hairs.



CINNAMON

- 1) Leaves are used in tea & different dishes for imparting aroma .**
- 2) Used as an adjunct therapy in diabetes**
- 3) Insect repellent due to presence of lauric acid**
- 4) Cleans teeth**
- 5) Treatment of Nosebleed**

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Planting of Psidium & Duranta

Mulching

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UNIT 16th (Handcrafts)



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OTHER ACTIVITES (A) Harvesting ,Threshing & Winnowing of Finger Millet



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Harvesting



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Threshing



Winnowing



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LANDSCAPING OF SCHOOL & PUBLIC PLACE



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COMPETITION ORGANIZED IN SCHOOL



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CLEANLINESS CAMPAIGN



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DEMONSTRATION ON CUTTING , GRAFTING & LAYERING



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SOCIO ECONOMIC SURVEY OF FARMERS



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Demonstration



Ideal farming system

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zero energy cool chamber

CHART MAKING



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Visit To Agriculture & Horticulture Department



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SEED DISTRIBUTION BY KVK BHARSAR



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Innovative Ideas



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GERMPLASM COLLECTION



koot /kuttu



uggal
(Fagopyrum
esculentum)



bhangjeera
(Perilla
frutescens)



Cheena
(Panicum
miliaceum)

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OUR ACHIVEMENTS

CONVENED FARMERS TO ADOPT THE NEW HORTICULTURAL PRACTICES



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CONVENED ABOUT THE PLANNING AND PLANTING OF APPLE ORCHARD.



WHAT WE HAVE LEARN

- ❖ Farmers are afraid to adopt new technique
- ❖ People were very hardworking
- ❖ Adverse condition still lived happily
- ❖ Curious to learn new things
- ❖ Respect for their prosperity
- ❖ Improvement in Interaction skills
- ❖ We learnt some traditional method

Seeing Is Believing

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Learning By Doing

