

College of Horticulture  
V.C.S.G. University of Horticulture  
and Forestry  
Bharsar, Pauri Garhwal



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## Rural Horticulture Work Expreience

**Submitted To-**  
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## OUR VILLAGE

- ❖ Name of village- Kainur
- ❖ Block- Thalısain
- ❖ District- Pauri Garhwal
- ❖ Village Pradhan – Mr.Anand Singh
- ❖ No. of house hold- 487
- ❖ Population of male- 1177
- ❖ Population of female-1069
- ❖ Sex Ratio- 908
- ❖ Literacy-77.60%
- ❖ Aaganwadi- 3
- ❖ Primary school- 2
- ❖ Inter college- 1



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## OBJECTIVES OF THE PROGRAMME

1. To provide an opportunity to the students to understand the rural setting in relation to agriculture and allied activities.
2. To get the students familiar with socio-economic conditions of the farmers and their problems with reference to agricultural development.
3. To impart diagnostic and remedial knowledge to the students relevant to real field situations through practical training.
4. To develop communication skills in students using extension teaching methods in transfer of technology.

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5. To develop confidence and competence to solve agricultural problems.
6. To help students to acquaint with on-going extension and rural development

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## DAILY ACTIVITIES

<b>26/9/2016</b>	<b>Arrival to village Kainur . Meeting with local leader Mr. V. Shahu .</b>
27/9/2016	Introduction with farmer. Information about daily activity , cropping pattern , farming etc. Interaction with other farmers. Visit to Thora (potato fields.)
28/9/2016	Basic survey of 10 farmer families of village. Information about their farming system , major problems regarding to agriculture. Awareness towards new schemes regarding to agriculture and technologies. Motivation to adopt new technologies and method.
29/9/2016	Layout of orchard. Providing basic information planning of orchard establishment and planting. Training and pruning practice . Preparation of nursery bed.

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<b>30/9/2016</b>	<b>Preparation and filling of vermicompost . Building of shade for pit.</b>
1/10/2016	Preparation of lemon pickle and potato chips. Preparation of fodder nursery. Drawing and Essay competition.
2/10/2016	Digging of compost pit. Swachhta Abhiyan ralley with school students. Planting of ornamental plants.
3/10/2016	Introduction with traps and their application light and sticky trap. Rabi rath camp , distribution of onion and pea seeds to farmers.

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<b>4/10/2016</b>	<b>Preparation of polytunnel and sowing of red cabbage and broccoli seed. Sowing onion seeds.</b>
5/10/2016	Preparation of pea field and line sowing of pea. Preparation of silage.
6/10/2016	Preparation of MAP and floriculture block( planting of aloe and sowing of ocimum and annual flowers). Preparation of fodder block.
7/10/2016	Preparation of polyhouse . Uses and spray of cow urine.
8/10/2016	Preparation of mud hive. Preparation of polyhouse. Sowing of broccoli, red cabbage and onion.

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<b>8/10/2016</b>	<b>Preparation of mud hive. Preparation of polyhouse. Sowing of broccoli, red cabbage and onion.</b>
9/10/2016	Grafting in citrus. Preparation of vermiwash. Preparation of straw for Dhingri Mushroom.

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## INTERACTION WITH FARMERS

- Visit to villagers home.
- Knowing their daily routine.
- Knowing of their cropping pattern.
- Knowing of their agricultural problems.
- Find their solutions.
- Providing the general information of agricultural subsidies.
- Proving the general information of insect pest and disease management.

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## CROPPING PATTERN

season	Crops grown	Suggested crop
kharif	Paddy , Maize, Jhangora, Madua, Pea.	Chilli, Beans, Radish.
Rabi	Wheat, Mustard, Onion, Garlic ,Lentils.	Cole crops,
zaid	Potato, Corriander	Tomato, Brinjal, Cucurbits.

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## MAJOR PROBLEMS

### □ General Problem

- ❖ Lack of irrigation facilities.
- ❖ Problem of wild animal (monkeys, wild boars, Porcupine).
- ❖ Scarcity of fodder for animals.
- ❖ lack of knowledge about new technology.
- ❖ lack of awareness.

### □ Administrative problem

- ❖ No or untimely seed availability in the Agri. Department.
- ❖ Seeds un adaptive to environmental condition.
- ❖ Distribution of improper information about new schemes.
- ❖ Communication gap with farmers.

## MAJOR PROBLEMS IN FIELD

Major diseases and pest in field.

- Late blight in tomato.
- Aphid in cucurbits
- White grub in potato.
- White fly in cucurbit and beans.
- Citrus decline.
- Citrus canker.
- Cut worms.



Physiological disorder in potato.



White fly in bean.

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## FIRST DAY



Meeting with local leader and farmers.

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## INTERACTION WITH FARMERS.



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## PREPARATION OF POLYTUNNEL



Building of frame by wild bamboo.

✓ Polly tunnel frame made by bending wild bamboo frame.

✓ Covering frame by poly sheet.

✓ Nursery of red cabbage and broccoli sown in raised bed inside the tunnel.

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Nursery sowing of red cabbage and broccoli.



Covering poly sheet.

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Germination of seeds in nursery

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## FODDER NURSERY



Land preparation for planting of cuttings.



Row to row spacing of 30cm and plant to plant of 20 cm is maintained .

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Planting of cutting

- ✓Cuttings are made from old cane of minimum 20cm length and 3-4 nodes.
- ✓Cutting are planted as two nodes should be under the soil and one above the ground.

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Nursery of Napier grass by stem cutting.

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## VERMICOMPOST



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- ✓ Dimensions of pit 3mx1.5mx1m.
- ✓ Shade prepared from wood frame and dark colour poly sheet.

Construction of shade .

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## FILLING OF PIT



- ✓First Layer- is prepared high water retention capacity material , we used jhangora straw.
- ✓Second layer is prepare by dung.
- ✓Third layer of crop residue. Forth layer of green leaves. And at last black soil spread over it and covered with straw.

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Adding earthworm to the pit.



Covered with straw and grass.

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## COMPOST PIT



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Compost pit preparation of dimension  $3 \times 1.5 \times 1 \text{m}^3$

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## VERMIWASH



- ✓ First layer of gravels or pebbles.
- ✓ Second layer coarse sand.
- ✓ Then third layer of soil is made.
- ✓ After that a layer compost dung with earthworm is added and covered with straw.
- ✓ A water source is placed above the can.

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Portable unit made from plastic cans .

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## TRAPS



Sticky trap



Light trap

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## SPRAY OF COW URINE.



✓ Spray of cow urine in ratio of 1:10 with water.

✓ Act as organic fertilizer and pesticide.

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# MUSHROOM

Mushroom unit and demonstration on cultivation of dhingri mushroom.



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# FODDER BLOCK



✓Planting of napier grass as a fodder crop.

✓ spacing maintained 60cmx60cm.

✓ tender leaves are palatable of animals.

✓Drought hardy and easy propagation.

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Propagation of Napier through root rhizome cutting

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## POSTHARVEST

Preparation potato chips.



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✓ Potatoes of regular size are washed and peeled.

✓ these potatoes are then cut into plane slices.

✓ Cut slices are then kept in hot water to boil.

✓ boiled slices are kept in cloth piece and sun dried.

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Spreading of boiled slices on cloth and sun drying.

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## Lemon pickle



Lemons are cut into small pieces.

Small amount of salt is mixed with lemon pieces.

Cut pieces are then kept for sun drying.

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✓ Mustard oil is heated and removed from flame.

✓ Spices like turmeric, chilli powder, asafoetida, cumin and mustard seeds added.

✓ Then pickle is kept in sun for few days.

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## MAP BLOCK



▪ Aloe is planted at spacing 60cmx45cm.

▪ Propagated through leaf cutting.

- Uses.
- Act as anti fungal and anti bacterial.
  - used to cure many skin diseases.
  - reduce cholesterol.

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Planting of aloe and ocimum plants.

## SOWING ANNUAL FLOWERS



Sowing of flowering annuals like Gaillardia, annual chrysanthemum, calendula .

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## TRAINING AND PRUNING.



Training and pruning in citrus plant.

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## Grafting in grape fruit tree.



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❖ Grafting of lemon in grape fruit tree.

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## SCHOOL VISIT.



Planting of ornamental plants.



Swachta rally

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Essay and drawing competition on agriculture

## INTERACTION WITH ANGANWADI STAFF AND CHILDREN'S.



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## POLYHOUSE



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Construction of polyhouse of dimension 3.5x2.5 m<sup>2</sup>

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Preparation of nursery in the polyhouse.

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# SILAGING



- ✓It is a technique is used to preserve green fodder for dry period.
- ✓Anaerobic fermentation takes place.

Steps:-

- pit is dugged and covered with poly sheet.
- green fodder is filled tightly.
- Pit is covered air tight with polythene sheet.

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Filling green grass by tightly pressing ,covering with poly sheet air tight.

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## VISIT OF KVK PERSONALS.



Distribution of seeds under ravi rath programme.

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KVK scientists giving answers to questions of farmers.

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## ORCHARD LAYOUT.



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Layout of orchard in contour system.

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## BUILDING OF MUD HIVE.



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## PREPARATION OF ONION NURSERY



Preparation of raised bed of size 3mx1mx15cm.



Line sowing of seed 15cm apart in rows.



Traditional method of sowing with help of large mesh sieve.



## SOWING OF PEA



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Field preparation for sowing of pea. Beds of width 1m.

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Line sowing of pea. Spacing ( $15 \times 5 \text{cm}^2$ )

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## OTHER AGRICULTURE ACTIVITIES



Threshing of mandua

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Field ploughing



Potato harvesting.

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## VISIT TO THORA

- These are the main potato and amaranthus producing field.



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Orchard layout

## EXHIBITION

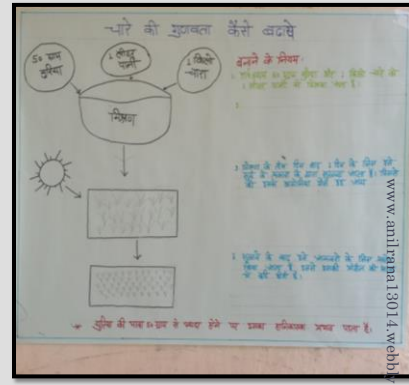


Demonstration on various technique

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Silaging technique



To improve quality of fodder.

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## WHAT WE LEARNED

- About daily life of village farmers.
- Traditional knowledge about agriculture.
- Tillage operation with traditional plough and implements.
- Development of communication skill.
- Teamwork.
- Work with scarce resources.

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# Thank you

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