



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



Rural Horticultural Work Experience

Submitted To

Asst.Prof. Ajaya Paliwal

www.k8449.webbly.com &
www.anilrana13014.webbly.com

Group - 5th

Submitted By

Suraj Kumar (13010)
Pankaj Rana(13012)
Imam H. Ansari (13013)
Anil Rana (13014)
Niket Gupta (13022)



Objectives of RHWE Programme:

- ❖ Students possess theoretical knowledge; needs practical orientation
- ❖ To familiarize the students with socio economic conditions of rural community and develop right perspective and positive attitude towards it.
- ❖ To develop interpersonal, group and mass communication skills in students.
- ❖ To endow the students with experience in programme planning and implementation of their respective fields of specialization by conducting need based activities

www.k8449.webbly.com &
www.anilrana13014.webbly.com

- ❖ To interact and coordinate with grass root level functionaries of development programmes of Government and Non-Government organization.
- ❖ To develop confidence and competence among students for
 - Problems solving and
 - Decisions making.

www.k8449.webbly.com &
www.anilrana13014.webbly.com



Our village

- ❖ Name of village- Kainur
- ❖ Block- Thailisain
- ❖ District- Pauri Garhwal
- ❖ Village Pradhan – Mr. Anand Singh
- ❖ No. of household - 487
- ❖ Population of village- male : 1177 ; female : 1069
- ❖ Sex ratio : 908
- ❖ Literacy rate : 77.60% ; male : 91.35% ; female : 62.38%
- ❖ Anganwari- 3
- ❖ Primary school- 2
- ❖ Inter college- 1



www.k8449.webbly.com & www.anilrana13014.webbly.com

CROPPING PATTERN

SEASON	CROPS GROWN
KHARIF	Paddy, Maize, Jhangora, Mandua, Pea
RABI	Wheat, Mustard, Onion, Garlic, Lentil
ZAID	Potato, Coriander

www.k8449.webbly.com &
www.anilrana13014.webbly.com



Major Agricultural Problems

- Problems of white grub, aphids, whitefly.
- Problems of late blight, citrus canker etc.
- Less awareness.
- No agricultural welfare agencies.
- Less interaction with agriculture officers.
- Subsistence agriculture is mainly followed.
- Lack of Irrigation facilities.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

Activities done by us in Village

- ✓ DAY 1 :
 - Reach village KAINUR.
 - Meet with our course co-ordinators, KVK representative (Dr. Hoshiyar Singh) & Mr. Vijoy S. Sahu.
 - Meet with the farmer allotted to us :- Mr. Gaje Singh



VILLAGE : KAINUR



MEET WITH COURSE &
 COORDINATORS
www.k8449.webbly.com



FARMER : Mr. Gaje Singh

✓ DAY 2 :

- Interact with the farmer & his family.
- Tell them about the practices of Mulching & Pruning.
- Prepare raised beds (tell them about its benefit).
- Sowing of coriander and rai (line to line).
- Visit animal shed & fields of the allotted farmer.



Interact with the farmer



Plough the farmer's field.

✓ DAY 3 :

- Plough the farmer's field.
- Prepare pit for the vermicompost.
- Collect wild bamboo sticks for the polytunnel.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

✓ DAY 4 :

- Sun drying of mandua.
- Prepare polytunnel.
- Sowing of seeds in polytunnel.



Sun drying of mandua

✓ DAY 5 :

- Filling of the vermicompost pit.
- Threshing & Winnowing of fingermillet .
- Prepare citrus pickle.
- Interact with other farmers.



Threshing & Winnowing of fingermillet

- ✓ DAY 6 :
 - Collect earthworm for the vermicompost.
 - Interact with other farmers
 - Demonstrate both method of seed production of onion i.e. seed to seed & bulb to seed.
 - Organize competitions at the primary & junior schools.

- ✓ DAY 7 :
 - Organize programme at the school & Panchayat Bhawan i.e. Landscaping & cleanliness programme 'swachta abhyan'.
 - Planting of Tulsi & Aloe vera (Benefits of these medicinal plants to farmers).

- ✓ DAY 8 :
 - Distribution of seeds by the KVK.
 - Prepare shed for the vermicompost.
 - Sowing of onion in polytunnels.

www.k8449.webbly.com &
www.anilrana13014.webbly.com



Organize competitions at the primary & junior schools



Landscaping & cleanliness programme 'swachta abhyan'

www.k8449.webbly.com

- ✓ DAY 9 :
 - Prepare vermiwash (filling up of stones, sand & soil)
 - Collect LEESA(Pinus Resin).
 - Planting of napier grass.

- ✓ DAY 10 :
 - Slicing of radish & then drying of the slices and chilli.
 - Sowing of pea.
 - Prepare insect trap.

- ✓ DAY 11 :
 - Prepare mixed pickle (radish+chilli).
 - Prepare mandua barfi & chaulai laddu.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

- ✓ DAY 12 :
 - Start the preparations for mudhive.
 - Vermiwash is prepared.
 - Tell other farmers about the practices of Mulching & Pruning.

- ✓ DAY 13 :
 - Preparing mudhive.
 - Tell farmers about the practices of grafting and budding.

- ✓ DAY 14 :
 - Mud hive is completed.
 - Survey around the village.

- ✓ DAY 15 :
 - Exhibition & interaction.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

ALLOTTED FARMER'S DETAIL

Farmer's Name : Mr. Gaje Singh

Father's Name : Late Sher Singh

Main Occupation : Farming

Subsidiary occ. : Dairy, Fisheries, Poultry.

No. of Family Members : 10 (M : 5, F : 2, C : 3)

Area Owned : 33 nail (6600m₂) :-rainfed



www.k8449.webbly.com &
www.anilrana13014.webbly.com

❖ Interaction with farmer :-

- We used to visit the farmer home.
- Used to visit their field.
- Tried to know their agricultural problems and allied practices.
- Used to find their solutions.
- Rectify it by providing them appropriate measures.



www.k8449.webbly.com &
www.anilrana13014.webbly.com

TRADITIONAL EQUIPMENTS



www.k8449.webbly.com &
www.anilrana13014.webbly.com

TRADITIONAL METHOD

PRESERVATION OF PUMPKIN

BROOMS PREPARED FROM JUNELA CROP



www.k8449.webbly.com &
www.anilrana13014.webbly.com

ORCHARD DEVELOPMENT :

FARMER INTERESTED : Mr. Avtar S. Negi

TOTAL AREA : 70 NALI (1.4 ha.)

AREA PROVIDE AT : THOR

www.k8449.webbly.com &
www.anilrana13014.webbly.com

OUR OBSERVATION

- ❖ People were very hardworking
- ❖ Adverse condition still lived happily
- ❖ Respect for their prosperity
- ❖ We learnt some traditional methods
- ❖ People are curious about new agricultural technologies
- ❖ Most of the people economically depend on agriculture.
- ❖ We observed the cropping pattern followed by the villagers.
- ❖ Subsistence Agriculture is followed in village.
- ❖ Types of fields- Only Rainfed
- ❖ Most of the vegetables are grown in kitchen garden.
- ❖ Conventional farming is dominant.
- ❖ Soil texture: sandy loam.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

UNITS PREPARED

1. VERMICOMPOST
2. POLYTUNNEL
3. VERMIWASH
4. MUDHIVE
5. STICKY TRAP
6. RAISED BEDS
7. SOWING OF PEA
8. SOWING OF ONION
9. PLANTING OF NAPIER
10. PLANTING OF TULSI
11. POTATO CULTIVATION
12. MULCHING
13. TRAINING AND PRUNING
14. GRAFTING AND BUDDING
15. LEMON PICKLE
16. RADISH & CHILLI PICKLE
17. MANDUA BARFI
18. CHALAI LADDU
19. INFORMATION PROVIDED ABOUT SUBSIDY GIVEN BY GOVT.
20. DEMONSTRATIONS ON HALODU METHOD BOTTLE DRIP SYSTEM MUSHROOM CULTIVATION HI-TECH FARMING SYSTEM INTEGRATED FARMING SYSTEM

www.k8449.webbly.com &
www.anilrana13014.webbly.com

21 STEPS TOWARD SOCIAL MODIFICATION

VERMICOMPOST



1. Clear the area



2. Pit Preparation



3. Plastering of walls



4. Covering the wall & sides



www.k8449.webbly.com &
www.anilrana13014.webbly.com

5. Filling of pit



6. Mixing of earthworm



7. Cover it with straw



8. Prepare shed



9. Shed cover with bhang sticks

Pit Size : 3m×1m×1m



10. Cover the shed with polythene

www.k8449.webbly.com & www.anilrana13014.webbly.com

POLYTUNNEL



1. Clear the field



2. Prepare structure of polytunnel



3. Cover by polythene



4. Tie the polythene sheet



5. Polytunnel completed

Dimensions : 3.5m×1m×.6m
Bed size : 3m×.6m×.15m

www.k8449.webbly.com & www.anilrana13014.webbly.com



6. Prepare nursery bed



7. Sowing



8. Irrigation



9. Germinated seedlings

www.k8449.webbly.com & www.anilrana13014.webbly.com

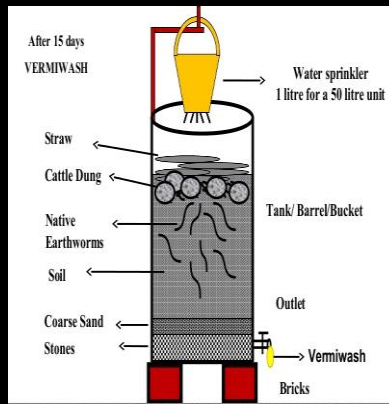
VERMIWASH



1. Cut upper portion
2. Make a hole for the pipe
3. Fitting of pipe



3.. Mixing of earthworm



www.k8449.webbly.com & www.anilrana13014.webbly.com



2. Filling



4.. Fitting of water sprinkler

MUDHIVE



1.



2.



3.



4.



5.



6.



7.



8.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

STICKY TRAP



1. Cutting of sheets
2. Fix them on a cardboard sheet



3. Colour one side of it to blue



4. Roll cello tape around the sheets



5. Hang it at the field

www.k8449.webbly.com &
www.anilrana13014.webbly.com

Raised Beds



1. Clean the field



2. Prepare raised beds



www.k8449.webbly.com &
www.anilrana13014.webbly.com

3. Sowing of seeds

Bed Size : 3m×1.2m
Line to Line Spacing :

Coriander : 20cm
Rai : 30cm

Variety :

Coriander : PANT HARITMA
Rai : HATHIKAN



Sowing of Pea

FARMERS : Mr. Chandra S. Negi

VARIETY : Arkel

SPACING : 30 cm × 5 cm

No. of beds : 3

Bed Size : 8m × 3.5m



www.k8449.webbly.com &
www.anilrana13014.webbly.com

SOWING OF ONION



FARMER : Mr.Chandra S. Negi
VARIETY : Agrifound Red
SPACING : In lines of 5-7 cm
apart
Bed Size : 5m×2m



www.k8449.webbly.com &
www.anilrana13014.webbly.com

PLANTING OF NAPIER GRASS



1.

2.

3.

4.

www.k8449.webbly.com &
www.anilrana13014.webbly.com

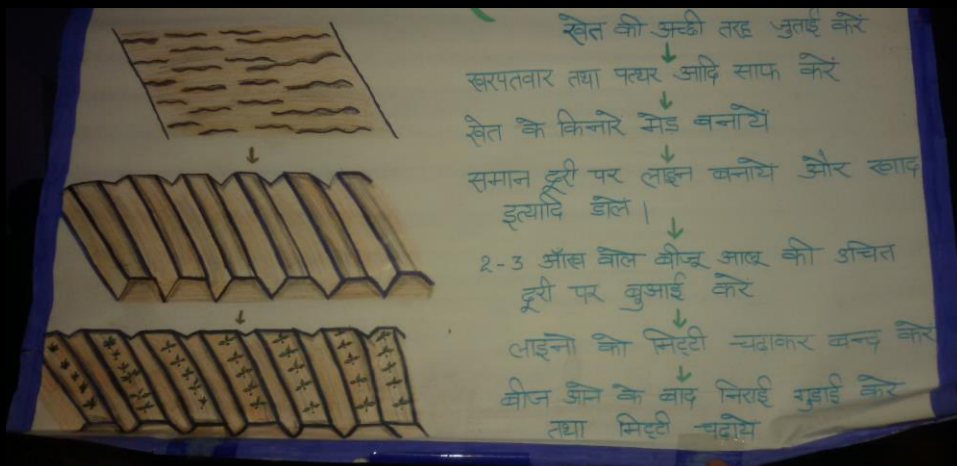
PLANTING OF MEDICINAL PLANT



TULSI

www.k8449.webbly.com &
www.anilrana13014.webbly.com

Potato Cultivation



www.k8449.webbly.com &
www.anilrana13014.webbly.com

MULCHING



Straw Mulching



Plastic Mulching



Mulching with leaves



Pebble Mulching

www.k8449.webbly.com &
www.anilrana13014.webbly.com

PRUNING AND TRAINING



PRUNING IN MALTA TREE



TRAINING IN APPLE

www.k8449.webbly.com &
www.anilrana13014.webbly.com

GRAFTING AND BUDDING



Farmer 1



Budding



Wrapping



Farmer 2



www.k8449.webbly.com &
www.anilrana13014.webbly.com



Farmer 3



POST HARVEST PRODUCTS

❖ LEMON PICKLE



1. CUTTING & SLICING



2. MIXING SPICES & SALT WITH JUICE



3. MIXING LIME PIECES



www.k8449.webbly.com &
www.anilrana13014.webbly.com



5. KEEPING IN SUN FOR A WEEK

❖ RADISH & CHILLI PICKLE



1. CUTTING & SLICING

2. DRYING



3.. MIXING SPICES & SALT



4. MIXING LIME PIECES & THEN ADD VINEGAR



5.. FILLING IN JAR
www.anilrana13014.weebly.com & www.anilrana13014.weebly.com



6.. KEEPING IN SUN FOR A WEEK

❖ MANDUA BARFI



1. PREPARE SUGAR SYRUP



2. ROASTING OF FLOUR



3. MIXING



4. FILL IT IN A VESSEL



5. BARFI PIECES

❖ CHAULAI LADDU



1. JAGGERY SYRUP



2. ROASTING OF CHAULAI



3. MIXING



4. CHAULAI LADDU

www.k8449.webbly.com &
www.anilrana13014.webbly.com

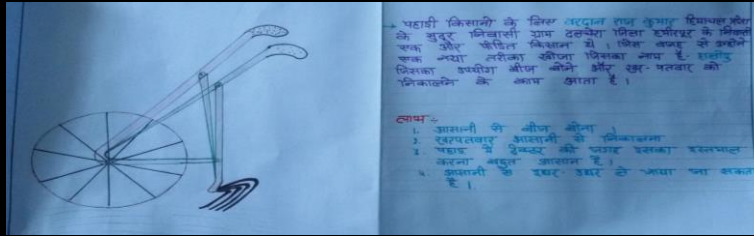
SUBSIDIES GIVEN BY GOVT.

- ❖ Polyhouse :
 - SUBSIDY : 80% BY GOVT.
 - Farmers interested: Mr. Gaje Singh , Mr. Girish Singh , Mr. Chandra Singh
- ❖ Vermicompost :
 - Amount given by Govt. : 1300-1400 Rs.
 - Farmers interested : Mr. Gaje singh , Mr. Ranjit Singh

www.k8449.webbly.com &
www.anilrana13014.webbly.com

DEMONSTRATION OF METHODS

❖ HALODU METHOD



- The slopes of mountains and the sporadic land patterns do not allow farmers to use tractors to sow or weed on a large scale.
- Raj Kumar, a resident of a remote village named Dalchera, Hamirpur district in Himachal Pradesh was another victim of these natural impediments, which exhorted him to innovate a novel means.
- This manually operated weeder was named 'Halodu', which would soon change lives of many such farmers living in hilly areas.

❖ BOTTLE DRIP SYSTEM



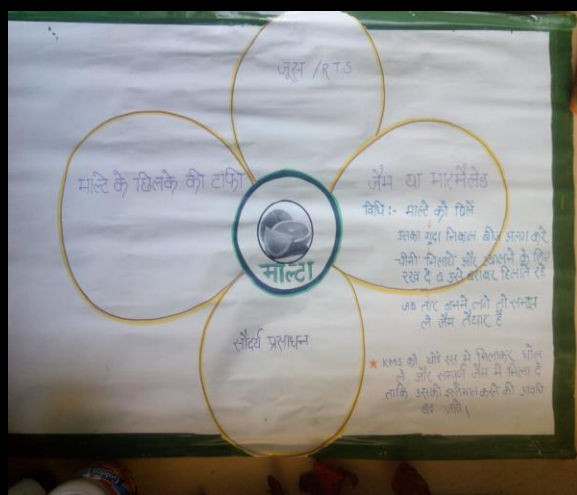
www.k8449.webbly.com &
www.anilrana13014.webbly.com

❖ MUSHROOM CULTIVATION



www.k8449.webbly.com &
www.anilrana13014.webbly.com

❖ MALTA PRODUCTS



1. JUICE/RTS
2. JAM & MARMALADE
3. CANDY

www.k8449.webbly.com &
www.anilrana13014.webbly.com

❖ HI-TECH FARMING SYSTEM



❖ INTEGRATED FARMING SYSTEM

www.k8449.webbly.com &
www.anilrana13014.webbly.com

Steps towards the social modifications

1. Held a meeting for establishment of Youth Club



www.k8449.webbly.com &
www.anilrana13014.webbly.com

2. Organize Competitions at School



www.k8449.webbly.com &
www.anilrana13014.webbly.com

3. ORNAMENTAL PLANTING AT SCHOOL & PANCHAYAT BHAWAN



www.k8449.webbly.com &
www.anilrana13014.webbly.com

4. Organizing Cleanliness Programme (SWACHATA ABHIYAN)



www.k8449.webbly.com &
www.anilrana13014.webbly.com

5. SEEDS DISTRIBUTION

CROPS	VARITIES
BROCCOLI	PALAM SAMRIDHI
ONION	AGRIFOUND RED
RAI	HATHIKAN
CORIANDER	PANT HARITMA
PALAK	ALL GREEN

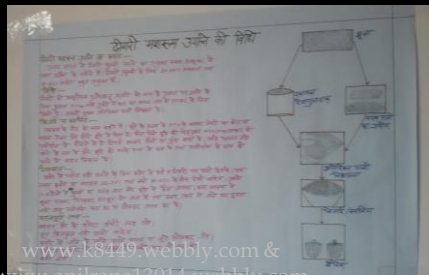
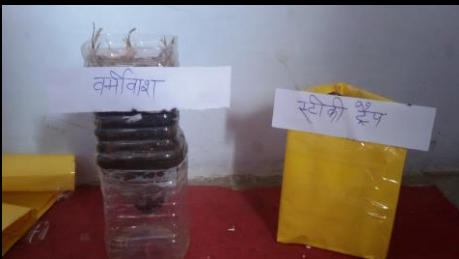
www.k8449.webbly.com &
www.anilrana13014.webbly.com

SEED DISTRIBUTION BY KVK



www.k8449.webbly.com &
www.anirana13014.webbly.com

EXHIBITION



www.k8449.webbly.com &
www.anirana13014.webbly.com

INTERACTION SESSION



www.k8449.webbly.com &
www.anilrana13014.webbly.com

WWW.K8449R.WEBBLY.COM

**IF YOU ATE TODAY
THANK A FARMER**

www.k8449.webbly.com &
www.anilrana13014.webbly.com