

Horticulture work experience[HWE 101,102,103]



- Submitted to
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submitted by – Group 3

Work done during 2016-2017

Field allotment

- **Date – 23 january 2016**
- **Field cleaning and burning of bushes**
- **30 january -12 march 2016**
- **Land ploughinng and pulverizing of fields**



Pulverizing the field



Total number of plots-22

Area under different crops:

❖ Vegetables

- Radish -56m²
- French bean-66.2m²
- Cow pea-78.9m²
- Brinjal-132m²
- Capsicum-12m²
- Tomato -71.4m²
- Cucurbits-388.04m²
- Rai -30m²
- Okra -30m²
- Spinach- 40 m²

Floriculture

- Marigold -66.5m²
- Gladiolus -36.6m²
- Chrysanthmum-24.9m²
- Gaillardia -30 m²
- Dahlia -10 m²

MAP and spice crops

- Chilli-80.5m²
- Fenugreek-24.5m²
- Coriander-10.5m² + 30m²

Total area under cultivation

- Vegetables- $874.6\text{m}^2 + 60\text{m}^2$
- Floriculture- 168m^2
- MAP and spice- 145.5m^2
- **Total area under crop- 1248.15m^2**

nursery preperation for different crops

Brinjal –19/3/2016

- Area- 1m x 1m
- Variety-PPC and Pant Samrat

• **Tomato-19/3/2016**

- Area -1m x 1m
- Variety –Sioux and Best Of All

• **Capsicum-19/3/2016**

- Area -1m x 1m
- Variety-California Wonder

Cucumber,pumpkin,bittergourd, bottlegourd,summer squash.

Date –8/4/2016

Variety- local variety

Cauliflower-18/7/16

Cabbage- 10/8/16

Sowing of crops

- **French bean- 13/4/2016**
- Variety – bush type
- Seed rate-80kg/ha
- Spacing-[45cm×15cm]
- Area – 24.6m²
- **Marigold-transplanting14/4/2016**
- Variety-Pusa Narangi and Pusa Basanti
- Spacing-[45cm×45cm]
- Area-66.5m²
- **Cucurbits transplanting {summer squash,bottle gourd,bitter gourd,cucumber}**
- Date -15/4/2016
- Spacing-[1m×1m]
- Seed rate@1-4 kg/ha
- Area -151.5m²

- **Tomato-16/4/2016**
- Variety – Sioux and Best of all
- Spacing[75cm×30cm]
- Seed rate 1-2 kg/ha
- Area -60m²

- **Gladiolus -24/4/2016**
- Variety- Pricella
- Total corms-215
- Spacing –(25cm x 25cm)
- Area-36.6m²

- **CHILLI TRANSPLANT- 24/6/16**

- **COW PEA – 28/6/16**
- VARIETY- Kashi Kanchan
- Spacing=(45cm x 15cm)

- **RADISH-30/6/16**
- Variety- Japanese White
- Spacing-(30cm x5cm)
- **CORIANDER- 4/7/16**
- VARIETY- Pant Haritma
- **Cabbage transplanting- 19/9/16**
- Variety- Pusa Drum Head
- Spacing(60cm x 45cm)
- **Cauliflower trasplanting-17/10/16**
- Variety-local
- Spacing(60cm x 45cm)
- **Garlic -16/11/16**
- Variety- local
- Spacing(15cm x 10cm)
- **Onion transplanting- 19/11/16**
- **Spacing (15cm x 15cm)**
- **VARIETY: Agrifound Red**

Transplanting of chilli . in field

Brinjal transplanted in the field



Cucurbits transplanting

- French bean in field



Margold in field

Pusa basanti



Pusa narangi



Tomato in the field



Gladiolus in field



Capsicum in field.



Chrysanthmum in field.



VARIOUS INTERCULTURAL OPERATIONS

- First Weeding in fenugreek, raddish- 13/4/2016
- First Weeding in marigold , gladiolus, and french bean-30/4/2016
- Spraying of ridomil [mancozeb] for controlling of early blight in tomato @ 0.2% at-28/4/2016
- Staking in tomato-12/6/2016
- Staking in cucurbits [bittergurd, cucumber]- 13/6/2016

- Weeding and removal of stumps from the field-
20/6/16,24/6/16,25 /6/16 , 27/6/16
28/6/16,29/6/16,
3/7/16,13/7/16,14/7/16,2/8/16,24/8/16
- Thinning in tomato- 4/7/16
- Staking in tomato 7/7/16
- Collection of pole and hut preperation 9/7/16
- Earthing up in tomato 8/8/16
- Removal of tomato plants from the field 19/8/16
- Removal of chilli plants from the field 15/10/16
- Removal of brrinjal plants and pulverizing of field18/11/16

Post harvest work.

- Chilli pickle = 9/7/16- 13/7/16
- Apple chutney= 25/7/16-26/7/16
- Mango chutney= 27/7/16-28/8/16
- Cards = 22/8/16 – 24/8/16
- Chocolate = 16/9/16-17/9/16,
15/10/16,21/10/16/25/10/16

Card preparation.





**Boiling of apple pieces AND
of soft pieces. For chutney making**

Pulping



Chocolate making



Harvesting

- Summer squash= 19/6/16,10/7/16
- Cucumber= 2/7/16,7/7/16,20/7/16
- Summer squash and cucumber=5/7/16,15/7/16
- Cucumber and tomato= 11/7/16
- Bottle gourd=21/7/16,3/8/16,11/8/16
- Tomato,bittergourd,bottlegourd, gladiolus spike=30/7/16
- French bean= 31/7/16,9/8/16
- Coriander= 5/8/16,10/8/16,18/8/16,30/8/16
- Tomato= 9/8/16,11/8/16,20/8/16
- Brinjal= 8/9/16,14/9/16,23/9/16

Harvesting of summer squash



Harvesting of cucumber



Various input used and their sources

s.no.	Name of crop	Source.
1	Summer squash	kumaon nursery ramnagar
2	cucumber	kumaon nursery ramnagar
3	tomato	COLLEGE
4	Bottle gourd	kumaon nursery ramnagar
5	Bitter gourd	kumaon nursery ramnagar
6	French bean	GBPUAT
7	coriander	GBPUAT
8	capsicum	PAURI LOCAL SHOP
9	chilli	PAURI LOCAL SHOP
10	brinjal	COLLEGE

11	Spinach	PAURI LOCAL SHOP		
12	okra	PAURI LOCAL SHOP		
13	rye	PAURI LOCALSHOP		
14	Cow pea	GBPUAT		
15	marigold	GBPUAT		
16	gladiolus	COLLEGE		
17	chrysanthe mum	GBPUAT		
18	garlic	Pauri ,haldwani		
19	Onion seedling	college		
20	Cabbage and cauliflower	Pauri garhwal		

S.NO.	MATERIAL USED FOR PROCESSING	SOURCE	
1	APPLE	COLLEGE	
2	MANGO	HALDWANI MANDI	
3	CHILLI	PABOU LOCAL SHOP	
4	DARK COMPOUND	DEHRADUN LOCAL SHOPS	
5	CRAFT MATERIAL	PAURI LOCAL SHOP	
6	SPICES,EGGS,FLOUR,VINEGAR ETC	BHARSAR LOCASHOPS	

INPUT COST

- **VARIABLE COST:**
 - SEEDS
 - PHT PRODUCT INPUT
 - CRAFTS INPUT
 - FERTILIZER
 - CHEMICALS
 - LABOUR COST
- **FIXED COST:**
 - LAND CHARGE
 - DEPRECIATION CHARGE

INPUT SHEET(variable cost)

(SEEDS)

Sr no.	Inputs	Quantity	Amount used	total
1	Summer squash seeds	20 rs/10 gm	20 gm	40 rs
2	Cucumber seeds	20rs/10gm	20 gm	40 rs
3	Bottle gourds seeds	25 rs/10 gm	10 gm	25 rs
4	Bitter gourd seeds	25 rs /10 gm	10 gm	25 rs
5	Tomato seeds	25 rs/10 gm	30 gm	75 rs
6	French bean seeds	30rs/ 10 gm	50 gm	150 rs
7	Brinjal seeds	25 rs /10 gm	50 gm	125 rs
8	Fenugreek seeds	15 Rs /10 gm	40 gm	60 rs

9	Coriander seeds	10 rs /10 gm	30 gm	30 rs
10	Radish seeds	25 rs / 10 gm	60 gm	150 rs
11	Chilli seeds	10 rs /10 gm	10 gm	10 rs
12	Capsicum seeds	10 rs/10gm	10 gm	10 rs
13	Cow pea seeds	30 rs/30 gm	200 gm	195 rs
14	spinach	40 rs/100gm	100 gm	40
15	okra	10 rs/10 gm	60 gm	60 rs
16	rye	10 rs/10 gm	10 gm	10
14	Marigold seeds	-		
15	Gladiolus corms	-		
16	chrysanthemum	-		
.17	Cabbage seeds	20rs/1o gm		20
18	Cauliflower seeds	20rs /10 gm		20
19	Onion seedlings	30rs/kg	3kg	90
	Other inputs[polythene bag,kudali,nursury bags]			200 rs
	Total	www.k8449r.weebly.com		1375 rs

Fertilizer and chemicals

s.no.	component	AMOUNT	RATE	Total cost
1	FYM	60kg	1 Rs/kg	60 Rs
2	MANCOZEB	10g	220 Rs/kg	2.2 Rs
3	N:P:K	8Kg	22 Rs/kg	176Rs
TOTAL				238.2 Rs

POST HARVEST PRODUCTS(INPUT)

S.NO.	INGREDIENTS	QUANTITY	PRICE	TOTAL
1.	APPLE	19KG	10RS/KG	190 RS
2.	MANGO	10 KG	20RS/KG	200 RS
3.	CHILLI	5 KG	70 RS/KG	350 RS
4.	CAKE INPUT(EGG,SUGAR,CREAM,FLOUR, CHOCOLATE)			480RS
5.	SPICE			315 RS
6.	DARK COMPOUND	20PACKET	150 RS/PKT	3000 RS
7.	NUTS			
8.	SUGAR	12.6KG	40RS/KG	504 RS
9.	Aluminium foil,plastic bags			370rs
	TOTAL			5409 RS

CRAFTS.(INPUT)

5	CARD PAPER	10 SHEETS	10 RS/SHEET	100RS
6	COLOUR	5	20/PIECE	100
7	FAVICOL	1		75 RS
8	GLOSSY SHEET	2	10 RS	20 RS
9	PLASTIC SHEET	10	10RS	100 RS
10	THREAD	3 BUNDLE		30 RS
11	CHART PAPER	6		90 RS
12	SCRAP BOOK			30 RS
13	TAPE			35 RS
14	GAS			480 RS
15	TRANSPORTATI ON CHARGE			200 RS
	TOTAL			1260 RS

- **VARIABLE COST:** seeds + chemical and fertilizer + post harvest + crafts
- **VARIABLE COST:** 1375 Rs+238.2 Rs +5409 Rs+1260 Rs= **8282.2 Rs**

Fixed cost:

- **LAND CHARGE: 100 Rs**
- **DEPRECIATION RATE:** total cost of implements= 1790 Rs
- 10% depreciation charge= 10% of 1790= **179 Rs**
- **FIXED COST: (100 Rs +179 Rs)=279 Rs**
- **TOTAL INPUT COST:=** fixed cost + variable cost
- =8282.2 Rs + 279Rs = **8561.2 Rs**

OUTPUT SHEET

(VEGETABLES and floriculture)

Sr no.	crops	area	Yield (kg)	Officially (kg)	amount	Total output
1	Summer squash	50 m ²	70	125	30 rs/kg	2100 rs
2	cucumber	50 m ²	51	125	30 rs/kg	1530 rs
3	tomato	71.4 m ²	53	214.2	40 rs /kg	2120 rs
4	Bottle gourd	60 m ²	23	180	30rs/kg	690 rs
5	Bitter gourd	30 m ²	4	36	35 rs/kg	140 rs
6	French bean	66.2 m ²	14.5	33.1	40 rs/kg	580 rs
7	coriander	40.5 m ²	7	2.43	75 rs /kg	525 rs

S.no.	Crop	Area	Yields (our)	Officially (kg)	amount
8	Fenugreek	24.5 m ²	451 gm	2.94	-
9	radish	56 m ²	44	112	30rs/kg
10	capsicum	12.9m ²	1	32.25	30 rs/kg
11	chilli	80.5 m ²	250 gm	60.375	70 rs/kg
12	brinjal	132 m ²	32	330	40 rs/kg
.	Gladiolus corms				210 corms
13	Spinach	40 m ²			
14	okra	30 m ²			
15	rye	10 m ²			
16	Cow pea	78.9 m ²	-		
17	marigold	66.5 m ²	-		
18	gladiolus	36.6 m ²	-		
19	chrysanthemum	24.9 m ²	-		
.	total				

OUTPUT(POST HARVEST PRODUCT AND CRAFTS)

S.NO.	PRODUCTS	PRICE	Market price	TOTAL
1	APPLE CHUTNEY(500gm packets)	50 Rs/packet(50 X 30)	60 Rs /packet	1500 RS
2.	MANGO CHUTNEY(500gm packets)	50Rs/packet(50 X 12)	60 Rs /packet	600 RS
3.	CHOCOLATES	30 Rs/Packet(30X 200)	25 Rs /packet	6000RS
4.	CHILLI PICKLE(500 gm/packet)	50 Rs/packet(50 X 9)	50 RS PACKET	450 RS
5.	CARDS	50 Rs/CARD(50X10)	50 Rs/card	500 RS
6.	CAKE(500 gm)	150 Rs/CAKE(150X4)	250 Rs / cake	600 RS
TOTAL		www.k8449r.weebly.com		9650 RS

- **TOTAL OUTPUT= 10302.5(vegetable production+9650(PHP products and crafts)=19952.5 RS**

GRAND TOTAL

- **INPUT COST**= fixed cost + variable cost
- $= 8282.2 \text{ Rs} + 279 \text{ Rs} = 8561.2 \text{ Rs}$
-
- **OUTPUT COST**= $10302.5 \text{ Rs} + 9650 \text{ Rs} = 19952.5 \text{ Rs}$
- **PROFIT**= $19952.5 - 8561.2 = 11391.3 \text{ Rs}$
- **BENIFIT COST RATIO**= $11391.3 / 8561.2 = 1.33:1$

NAME OF STUDENT	ID NO.	JAN	FEB	MAR	APR	may	Jun(1-13)	TOTAL(HOURS)
1.AJAY RAWAT (LEADER)	13025	30	30	24	38	8	12	142
2.SHUBHAM SUKHIJA (CO. LEADER)	13002	30	41	24	33	8	12	148
3.JYOTI KANWAL	13001	30	22	39	29	-	12	132
4.PRIYANKA	13005	19	22	24	38	8	18	129
5. VINAY KUMAR	13008	30	41	24	41	8	12	156
6. MANOJ KUMAR	13009	30	41	39	35	8	12	165
7.SUSMITA RANA	13011	30	41	24	38	8	12	153
8.KUSUM FARSWAN	13019	30	41	39	36	8	12	166
9.REHAN AZAMI	13035	30	27	39	33	8	12	149
10.SHUBHAM	13037	30	41	32	44	8	12	167
TOTAL HOURS								1507

ATTENDANCE OF 1st SEM (4th year)

NAME OF STUDENT	ID NO.	14jun - july	AUG	SEP	OCT	NOV	DEC	TOTAL(HOURS)
1.AJAY RAWAT (LEADER)	13025	280	176	104	64	192	96	912
2.SHUBHAM SUKHIJA (CO. LEADER)	13002	280	176	104	64	192	96	912
3.JYOTI KANWAL	13001	280	176	104	64	192	56	872
4.PRIYANKA	13005	288	176	88	48	176	64	864
5. VINAY KUMAR	13008	280	176	104	64	192	80	896
6. MANOJ KUMAR	13009	280	176	104	64	192	80	896
7.SUSMITA RANA	13011	288	176	88	48	192	96	896
8.KUSUM FARSWAN	13019	288	176	104	64	176	96	896
9.ReHAN AZAMI	13035	280	176	104	64	192	80	896
10.SHUBHAM	13037	280	176	104	64	192	96	912
TOTAL HOURS								7445

LABOUR CHARGE

- Labour charge: 230 Rs/8 hr
- Total number of labour hours(2nd SEM (3rd year) :**1507 hrs**
- Total number of labour hours(1st SEM (4th year) :
- **7445 hrs**
- Total labour cost: 2nd SEM (3rd year) : 43326.25 Rs
- (1st SEM (4th year) : 214043.75 Rs
- **GRAND TOTAL : 43326.25 Rs + 214043.75 Rs =**
- **257370 Rs**



THANK
YOU

- www.k8449r.weebly.com
- www.anilrana13014.weebly.com