

**Subject wise Schedule**

**Extension Education**

## RAWE AND AIA SCHEDULE: EXTN-I

### Conducting Participatory Rural Appraisal (PRA) and Techno Socio-Economic Survey of Village

#### Schedule EXTN 1A: Participatory Rural Appraisal (PRA)

#### Conducting PRA (Participatory Rural Appraisal) of the Village:

To understand overall condition of village, resource endowment and its utilization, problems of labour and employment and other important economic aspects, location of host farmer house and survey numbers.

**What is it? -Participatory Rural Appraisal(PRA)** defined as methodology for interaction with villagers understanding them and learning from them.

It involves a set of principles, a process of communication & menu of methods for seeking villagers participation in putting forward their point of view about any issue and enabling them to do their own analysis.

PRA constitutes a process of involvement with rural people for indigenous knowledge building exercise, it is a way of learning from and with villagers to investigate, analyse and evaluate constraints and opportunities to focus attention on people, their livelihoods and their relationship with socio- economic and ecological factors

**Why PRA** -It is useful to students of RAWE for collecting the information of village, to know the condition of village & as per the needs of villagers students has to undertake different activities and demonstrations which may helpful to them to improve their socio-economic condition.

**Menu of the PRA methods** - Students may use following methods to collect the information of village.

- 1) Transect walk
- 2) Resource persons
- 3) Secondary data review
- 4) Direct observations
- 5) Key informants
- 6) Semi structured interviews
- 7) Group interviews
- 8) Key indicators
- 9) Workshops & brain storming

- 10) Maps & photographs
- 11) Stories, portraits & case studies.
- 12) Interaction
- 13) Key probes
- 14) Short simple questionnaires

(**Note:-** Students should write/ draw diagrams & maps as following)

- a. Name of village -
  - b. Purpose of PRA -
  - c. Resource person contacted Prior to conducting PRA -
  - d. Activities exercised in PRA - ( Same sequence should be used)
- 1) **Collection of basic information of village** -Demographic, socio economic, agriculture, animal husbandry, pollution & problems.
  - 2) **Transects walk** - Making the long walk inside the village & locating various items like soil, crops, water resources, trees etc.
  - 3) **Drawing sketch map of village** - Showing important locations of village.
  - 4) **Agro ecology map** - Average temperature, rainfall, land holding, weeds etc.
  - 5) **Resource map** - Natural & man made resources available in village.
  - 6) **Social map** - Drawing of village map without scale & locating the social facilities like social structure, education, stratification, leadership pattern, value systems, social evils etc.
  - 7) **Mobility map** -Mobility of villagers in terms of places visited, purposes, mode of transport, cost & time.
  - 8) **Timeline & time trends** - indicates the major remembered chronological events in the history of village.
  - 9) **Seasonal calendars** - Month wise abnormalities regarding the agriculture and animal husbandry.
  - 10) **Impact/consequence diagram** - Indicates the changes occurred in individual or society due to adoption of technology.
  - 11) **Farm household map** - Indicates the way in which the surroundings of a typical house hold appears.
  - 12) **Bio resources flow diagram** - degree of utilization & recycling of biological resources around them.
  - 13) **Venn diagram** - To study institutional relationships popularly known as chapatti diagram.

- 14) **Daily routine diagram** - Depicts the way in which the rural people manage their daily time.
- 15) **Indigenous technique know how map** - Depicts the pictorial instructions on the indigenous agril. technology found in village with reference to agriculture.
- 16) **Technology map** -Indicates the decision behavior of the farmers to adopt or reject& discontinuance the technology.
- 17) **Problem tree** - Indicates various causes responsible for the specific problems.
- 18) **Solution tree** - Indicating solutions to solve that particular problem.

( **Note** : Students will identify the social, economic & agriculture problems and solution accordingly )

**Identify problems like**

**A) Crop production:** 1.----- 2.----- 3.-----

4.----- 5.----- 6.-----

**B) Horticultural Crop :** 1.----- 2.----- 3.-----

4.----- 5.-----

**C) Adoption of Modern Technology:**1.----- 2.-----

3.----- 4.----- 5.-----

**D) Animal Husbandry & Livestock Mangt.:**1.----- 2.-----

3.----- 4.----- 5.-----

**E) Credits :** 1.----- 2.----- 3.-----

4.----- 5.-----

## Schedule EXTN 1B

## TECHNO SOCIO- ECONOMIC SURVEY OF VILLAGE

Name of Student :

Registration No. :

College :

**1. Name of the village:**

Taluka : Distance from village (km):

District : Distance from village (km):

**2. Transport and communication**

i) Bus stand : Distance from village (km):

ii) Railway station : Distance from village (km):

iii) Post office : Distance from village (km):

iv) Telephone office : Distance from village (km):

v) Bank : Distance from village (km):

**3. Population of the village****A) Category**

Sr. No.	Category	No. of families	Percentage (%)
i)	Agriculturist.		
ii)	Landless Agril. Labourers		
iii)	Village Artisans		
iv)	Others		
	Total No .of families		

**B) Population**

Gender	Category	Number			Percentage to total population
		Literate	Illiterate	Total	
1.Male	a) Adults (above 35 yrs.)				
	b) Youth (18 to 34 yrs.)				
	c) Children				
	Sub Total				
2.Female	a) Adults (above 35 yrs.)				
	b) Youth (18 to 34 yrs.)				
	c) Children				
	Sub total				
	Grand Total				

C. Sex ratio : Male : Females

D. Literacy percentage : %

Male :

Female :

E. Level of literacy in village :

Sr. No.	Level of Literacy	Number		Total Percentage
		Males	Females	
1	Illiterate			
2	Studied up to IV std.			
3	Studied up to VII std.			
4	Studied up to X std.			
5	Studied up to XII std.			
6	Studied up to degree programme and above			
	<b>Total</b>			

F. Classification of families (Households) according to occupation

Sr. No.	Occupation	No. of households
1	Agriculturists	
2	Village artisans	
3	Landless Agril. Labourers	
4	Factory workers	
5	Lawyers	
6	Doctors	
7	Others	
	<b>Total</b>	

4. Educational facilities:

Sr. No.	Type of Institute	No.	Distance from Village (km.)
a)	Primary School		
b)	High School		
c)	Jr. College		
d)	College (Arts, Science, Commerce )		
e)	others		
	i)		
	ii)		

**5. Medical facilities:**

Sr. No.	Type	Available in village / Distance from Village (km.)
1	Primary Health Centre	
2	Government Hospital	
3	Private Dispensary	
4	Private Hospital	

**6. Drinking water facilities:**

Sr. No.	Source	
1	Well	
2	Tanks	
3	River	
4	Tap water (other)	
5	Filtered / Non-filtered	

**7. Marketing Facilities:**

Sr. No.	Type	Available within the village	Nearest place to the village	Distance in (km.)
1	Weekly bazaar			
2	Regulated market			
3	Grocery shop			
4	Vegetable and Fruits stall			
5	Private/co-operative			
6	Fair price shop			

**8. Credit Institutions (Source : Group secretary of society)**

- i) Primary Credit Co-operative society: \_\_\_\_\_
- Total number of members : \_\_\_\_\_
- Share Capital (Rs.) : \_\_\_\_\_

**Total loan supplied during last year:**

Types of Loan	Purpose of Loan (Crop Loan or others)	Name of Finance Institutions	Duration of Loan	Total Loan Amount	Rate of Interest	No. of Farmers Borrowed
Short Term						
Medium Term						
Long Term						

**9. Livestock Population (Recent Census)**

Class of Livestock		Numbers
a)	Draft Animals	
	i) Bullocks	
	ii) He buffaloes	
	Total	
b)	Milch animals	
	i) Local breed cows	
	ii) Crossbred cows	
	iii) Buffaloes	
	Total	
c)	Calves (below three years)	
	i) Local breed cows	
	ii) Crossbred cows	
	iii) Buffaloes	
	Total	
d)	Goats	
e)	Sheep	
f)	Poultry	
i)	Others	



**10. Total number of houses**

1. Pucca Houses
2. Kachcha Houses

**11. Modes of lifting water (Numbers):**

- i) Electric Motors :
- ii) Drip units :
- iii) Solar pumps :
- iv) Other (specify) :

**12. Facilities for repairs of machinery like tractors, oil engines, electric motors, implements, etc.:**

Sr.No.	Type of machinery	Repairs in the village	Facilities available at nearby village	Distance from the Village (km.)
1	Tractor			
2	Electrical Motors			
3	Drip units			
4	Implements			

**13. Veterinary aid available for livestock**

Sr. No.	Particulars	Available in		
		Village	At nearby Village / Town	Distance from Village (km.)
1	Veterinary Dispensary			
2	Artificial Insemination Centre			
3	Dairy Society			
4	Veterinary Polyclinic			

**14. Land Utilization Pattern**

Sr. No.	Particulars	Area in ha.
1	Total Geographical Area	
2	Forest Area	
3	Grazing and pasture land	
4	Land put to non-agricultural use	
5	Total cultivable area	
6	Area under rainfed agriculture	
7	Area under irrigation	
8	Net sown area	
9	Area sown more than once	
10	Any other (specify)	

**15. Structural distribution of land holdings**

Sr. No.	Farm Size (ha)	No. of Holdings	Percentage to Total	Area (ha.)	Percentage to Total
1	Up to 1.00				
2	1.01 to 2.00				
3	2.01 to 4.00				
4	4.01 to 6.00				
5	6.01 and above				

**16. Source of irrigation**

Sr. No.	Source	No.	Area Covered (ha.)		
			4 monthly	8 monthly	Perennial
1	Canal				
2	Wells				
3	Government lifts				
4	Private lifts				
5	Co-operative lifts				
6	Tanks/ Water ponds				
7	Other (specify)				
	Total				

## 17. Cropping Pattern (Previous year)

Season	Crop	Dry area (ha)	Irrigated area (ha)	Average yield (Q/ha)	
				Rainfed	Irrigated
A) Kharif	i)				
	ii)				
	iii)				
	iv)				
	v)				
	vi)				
	vii)				
	viii)				
	ix)				
	x)				
B) Rabi	i)				
	ii)				
	iii)				
	iv)				
	v)				
	vi)				
	vii)				
	viii)				
C) Summer/ Perennial	i)				
	ii)				
	iii)				
	iv)				
	v)				
	vi)				

**18. Adoption of recommended Agril. Technology  
(for important crops)**

Input	Crop & Variety	Total Area (ha)	Area Covered (ha)			
			Local		Improved	
			Area	Per cent	Area	Per cent
a) Seed	i)					
	ii)					
	iii)					
	iv)					
b)Fertilizers	i)					
	ii)					
	iii)					
	iv)					
c) Plant Protection	i)					
	ii)					
	iii)					
	iv)					

**19. Availability of Agricultural Labours**

Sr. No.	Type of Labour	Inadequate / Adequate	Wages paid (Rs.) Daily
1	Male		
2	Female		
3	Bullock pairs		

**20. Subsidiary Enterprises**

<b>Sr.No.</b>	<b>Enterprise</b>	<b>No. of families engaged in village</b>
1	Dairy	
2	Poultry	
3	Sheep / goat rearing	
4	Agro tourism	
5	Sericulture	
6	Apiculture	
7	Other (specify)	

**21. Other Institutions in the village**

<b>Sr. No.</b>	<b>Institute</b>	<b>Yes / No</b>
1	Gram panchayat	
2	Service Co-op. Society	
3	Dairy Co-op. Society	
4	Post Office	
5	Bank	
6	Farm Forum	
7	Radio Farm Forum	
8	Youth Club	
9	Sports Club	
10	Mahila Mandal	
11	Bhajani Mandal	
12	Library	
13	Hospital / Primary Health Centre	
14	Self Help Group (SHG)	
15	Others (specify)	

**22. Transportation means available in the village:**

<b>Sr.No.</b>	<b>Type</b>	<b>Number</b>
1	Cycles	
2	Motor Cycles	
4	Cars / Jeeps	
5	Lorries	
6	Buses	
7	Others (specify)	

**23. Recreational facilities in the village**

<b>Sr. No.</b>	<b>Item</b>	<b>Number</b>
1	Television	
2	Radio Farm Forum	
3	Cinema	
4	Bhajan	
5	Fair	
6	Kirtan	
7	Newspapers	
8	Magazines	
9	Library	
10	Any other (specify)	

**24. Farm machinery and equipment**

<b>Sr. No.</b>	<b>Machinery / Equipment</b>	<b>Number</b>
1	Tractor	
2	Power Tillers	
3	Power Sprayer / Duster	
4	Sprayers	
5	Dusters	
6	Threshers	
7	Drip Irrigation Sets	
8	Sprinkler Irrigation Sets	
9	Others (specify)	

**25. Availability of inputs**

Sr. No.	Input	Available		Distance (km.)	Availability	
		in Village	at the nearest Village		Adequate	Inadequate
1	Implements					
2	Seed					
3	Fertilizers					
4	Pesticides					
5	Fungicides					

**26. Nearest Headquarter of the Gramsevak / VDO:**

**27. Extension programmes organized in the village including Development programmes:**

Sr. No.	Programme	Implementing Agency
1		
2		
3		
4		
5		
6		
7		
8		

**28. Self help Groups in village**

1. Total self help groups in village
2. Name of S. H.G. you have studied
3. Year of establishment
4. Total number of members Male/Female
5. Name of the Bank affiliated
6. Total amount deposited per month of all members
7. Total amount of loan received
8. Total capital balance

9. Enterprises/ activities carried out under S.H.G.

Sr. No.	Name	Number of beneficiaries
1.		
2.		
3.		
4.		

29. Problem faced by S.H.G.

30. Agro Industries in the village or nearby village

Sr. No.	Agro-Industry	No. of engaged families	Number	
			in the Village	in nearby Village
1	Flour Mills			
2	Rice Mills			
3	Dal Mills			
4	Oil Mills			
5	Jaggery Making units			
6	Fruit and Vegetable Canning			
7	Others (specify)			

31. Problems faced by villagers / Leaders

32. Comments / general observation of students



## RAWE & AIA Extension Schedule- II

### **Schedule EXTN II: Survey on Utilization of Internet and Mobile Applications by the Farmers for Agriculture Purposes**

With the advent of Internet and especially various applications for android mobiles and availability of android phones along with affordable data plans for ordinary person, the usage of internet as well as different social media and various agriculture related applications is increasing day by day by the farmers for obtaining required information such as production technologies, weather and climate, plant protection, post harvest management, marketing of agro produce etc.

The various apps are developed by government and other organizations such as Kisansuvidha, PusaKrishi, Soil health card, Crop insurance, Agri. market (Ministry of Agriculture, GOI), Krishi video advice (MANAGE, Hyderabad), IFFCO Kisan Agriculture (IFFCO), APEDA farmer connect, Havamana Krishi (UAS, Dharwad), SolapurAnar (NRC for Pomegranate, Solapur), Cane adviser (Sugarcane Breeding Ins. Coimbatour), eNAM (SFAC, Min. of Agri, GOI), AgroTech VNMKV and others (VNMKV, Parbhani) etc. the farmers are, now a days, using such apps for obtaining information and utilizing it at their level for satisfying needs.

Taking into account these facts, it is expected from the students of final year B.Sc. Hons. (Agri.) undergoing RAWE program to study the internet utilization behaviour of farmers and how it is influencing farm management practices of them. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

1. Name of the Farmer :
2. Address:
3. What's App No.:
4. E mail id.:
5. Educational qualification:
6. Land holding:           Ha.
7. Crops grown:
8. Crop wise Experience in Farming:                           years

**9. Frequency of using Internet/ Mobile apps**

(Tick mark in relevant column)

Sr. No.	Particular	Daily	Weekly	Fortnightly	Monthly
1	e mail				
2	Social medial like FB/WA				
3	You tube videos				
4	Write name of the mobile apps related to agriculture				
5					
6					
7					
8					
9					
10					
11	Other online sources				

10. Are you member of What's app group related to agriculture? Yes/ No (If yes, give details )

11. Date & year of What's app group created:

Sr. No.	Name of What'sapp group	Name of Admin	No. of participants	Nature/ Purpose of information received
1				
2				
3				

12. Are you member of face book group related to agriculture?

Yes/ No (If yes, give details )

Date & year of Face book group created:

Sr. No.	Name of FB group	Name of Admin	No. of participants	Nature/ Purpose of information received
1				
2				

13. Give details about use of agriculture related apps used by you.

Sr. No.	Name of App	Name of Organization	Purpose of App	Nature/ Purpose of information received
1				
2				
3				
4				

14. Do you visit websites of different agricultural institutes? Yes/ No (If yes, give details)

Sr. No.	Web address	Name of Organization	Purpose of visiting website	Nature/ Purpose of information received
1	www.mpkv.ac.in	MPKV, Rahuri		
2				
3				
4				

15. Do you watch different videos (Agricultural related ) on you tube channel? Yes/ No (If yes, give details)

Date of upload of videos :

Sr. No.	Name of you tube channel subscribed	Name of host/ owner	Number of subscribers	Nature/ Purpose of information received
1				
2				
3				
4				

16. Do you read e Papers / e Magazines / eBooks/Internet blogs? Yes/ No (If yes, give details)

Name of e Papers /e Magazines/ eBooks/ Internet blogs

17. Have you participated in online training/ webinar organized by SAUs/ KVKs or any other agriculture related organizations?

Sr. No.	Name of organization	Topic of the programme	Name of expert/s involved	Nature / Purpose of information received	Duration of Programme
1					
2					
3					
4					

18. Do you face any problem during use of Internet or Apps?

19. Is there any suggestion for overcoming problems or improvement in information provided?

**Signature of Farmer**

**Abstract (based on data of selected farmers)**

<b>Sr. No.</b>	<b>Particulars</b>	<b>No. of farmers</b>	<b>Sr. No</b>	<b>Particulars</b>	<b>No. of farmers</b>
1.	Average no. of farmers using Internet/Apps for getting information about agronomical crop management		4.	Average no. of farmers using Internet/ Apps for getting information about weather	
2.	Average no. of farmers using Internet/ Apps for getting information about Horticultural crops management		5.	Average no. of farmers using Internet/ Apps for getting information about market related aspects	
3.	Average no. of farmers using Internet/ Apps for getting information about plant protection		6.	Average no. of farmers using Internet/ Apps for getting information about livestock management	
7.	Majority Apps used by farmers for getting required information:-----				
8.	Majority of websites visited by farmers:----- -----				
9.	Average no. of participants in Whats App groups related to agriculture:-----				
10.	Average frequency of using Internet or Apps by the farmers:-----				
11.	Important problems faced by farmers in using Internet/ Apps:-----				
12.	Important suggestions given by farmers:----- -----				
13	Any other aspect pointed out by student:----- -----				

**Students Comments :** -----

**Soil Science & Agril.  
Chemistry**



**RAWE SCHEDULE-SSAC -I(B)**  
**RECOMMENDATIONS BASED ON SOIL REPORT**

1. Name of the Student : \_\_\_\_\_  
 2. Reg. No. : \_\_\_\_\_  
 3. Centre : \_\_\_\_\_  
 4. Village : \_\_\_\_\_  
 5. Name of the host farmer : \_\_\_\_\_

**Table: Soil Test report for fruit crops**

Soil sample & Sur. NO.	pH	EC	O.C. (%)	Available nutrients kg/ha			CaCO <sub>3</sub> (%)
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
Layer-I							
Layer-II							
Layer-III							

Suitability to fruit/vegetable crops:

Yes/No

Signature

(Student)

Signature

(Inspection Officer Incharge)



**Animal Husbandry &  
Dairy Science**





<b>ANIMAL HUSBANDRY AND DAIRY SCIENCE</b>	
<b>RAWE SCHEDULE AHDS II: ITK (Indigenous Technical Knowledge) Practices</b>	
Name of the Student:	Reg. No:
College:	
Name of village and Centre:	
Name of the Host Farmer:	

Sr.No.	ITK Practices	Yes	No
1	Use paste of <i>baelleaves</i> up to 4 to 5 days, in order to reduce shoulder pain of working ox		
2	A healthy cow was unable to conceive even after giving all kinds of treatments. Finally it was used for ploughing up to 3 months and then it became thin and came into heat and got conceived too. Now it is giving milk as cow and also used for ploughing as an ox		
3	For curing Foot and Mouth disease they use paste of custard apple and alum mixed water. They apply paste on the wounded hooves and bandage with clean cloth. Simultaneously they used alum mixed water to wash mouth of animal		
4	Use of two sponge guard per day to get cow in heat		
5	A mixed dose of 200 grams of ginger, turmeric and garlic each in month of May keeps FMD away		
6	2% CaCo <sub>3</sub> solution 100-150 ml is given for 3 months after parturition to avoid milk fever		
7	Bottle guard with fenugreek, coconut and black gram mixed with water is given to animals for 3 days to improve milk yield immediately after parturition		
8	.Gur + <i>Glyricidia</i> is given to animals to increase milk yield		
9	Extracts of omum, black cumin, pepper, gingelly and cardamom are given to cure digestibility problems		
10	To improve digestibility pepper, <i>gur</i> and betel leaf powder is given to animals		
Note: If farmer did any other ITK student can add in the schedule			

**Agronomy &  
Agril. Botany**

### RECORDING THE ANNUAL WEATHER DATA

1. Name of the Student :
2. Reg. No. :
3. RAWE Center :
4. Name of the Village :
5. Taluka Place of Village :
6. District Place of Village :
7. Location / Station of the Agro-met. observatory :

Year Month & Date	Met. Week No.	Temperature (°C)		Rainfall (mm)	No. of Rainy days	Humidity %	
		Maxi.	Mini.			Morning 7.30 hrs.	Evening 14.30 hrs.
<b>January 202</b>							
1	1						
2							
3							
4							
5							
6							
7							
8	2						
9							
10							
11							
12							
13							
14							
15	3						
16							
17							
18							
19							
20							
21							
22	4						
23							
24							
25							
26							
27							
28							
29	5						
30							
31							

Student should be record the annul weather data daily, weekly, monthly, yearly (as per standard met. weeks) for last year and existing year and correlate with crop performance, infection of dieses and pest.

Student should be also present the weather data in graphical form.





**AGRONOMY SCHEDULE****Schedule AGRO IB: Documentation of ITK – Indigenous Technology Knowledge practices followed in cultivation of agronomical crops in the village**

1. Name of the Student :
2. Reg. No. :
3. Name of Host farmer :
4. RAWE Center :
5. Name of the Village :
6. Taluka Place of Village :
7. District Place of Village :

<b>Sr. No.</b>	<b>Name of ITK Particular</b>		<b>ITK – Indigenous Technology Knowledge</b>
1.	Rainfall Prediction	:	
2.	Tillage 1. Primary	:	
	2. Secondary	:	
	3. Indigenous Implements used	:	
3.	Seed & Sowing 1. Seed treatment	:	
	2. Variety	:	
	3. Sowing	:	
4.	Weed Management	:	
5.	Insect Control	:	
6.	Disease Control	:	
7.	Soil and Water Conservation	:	
8.	Irrigation	:	
9.	Harvesting and Threshing	:	
10.	Produce Storage	:	
11.	Marketing	:	
12.	Any other special operation / practice / utilization of produce	:	
13.	Any Disaster Management (Drought, Flood, Dry Spell, Wet. Spell, Cyclone , any infection)	:	

**RAWE - AGRICULTURAL BOTANY**  
**RAWE SCHEDULE BOT-1A: SEED PRODUCTION OF FIELD / HORTICULTURE**  
**CROPS**

Name of Student:

Reg. No.:

Semester:

Name of Farmer:

Gross land holding:

Land under seed:

Sr. No.	Particulars	Remark
1	Name of crop	
2	Location of farm/ field No.	
3	Area (ha )	
4	Name of variety	
5	Type of variety Hybrid / Composite / Local / Selection Parent (s)	
6	Previous crop	
7	Source of seed	
8	Class of seed	
9	Date of registration	
10	Isolation Distance	
11	Land preparation : Ploughing, Harrowing, Leveling etc.	
12	Date of sowing	
13	Seed rate kg/ha	
14	Spacing	
15	Fertilizer NPK, any others	
16	Intercultural practices -Hoeing, Weeding etc.	
17	Irrigation	
18	Plant protection, weed control, disease control, insect control	
19	Rouging	
20	Field inspection	
21	Harvesting, Threshing, Processing, Seed testing etc.	
22	Estimated seed yield (qtl / ha)	

**COST OF SEED PRODUCTION**

**78**

**Crop:**

**Season:**

**Variety:**

**Year:**

Sr. No.	Cost Items		Unit	Input /Ha	Cost /unit Of Input (Rs.)	Total Cost /Ha(Rs.)
1.	Hired human Labour	Male	Days			
		Female	Days			
2.	Bullock power		Pair days			
3.	Machine charges		Hrs.			
4.	Registration charges		Rs.			
5.	Seed		kg			
6.	Manure		Qtls.			
7.	Fertilizers	N	Kg.			
		P	Kg.			
		K	Kg.			
8.	Irrigation charges		Rs.			
9.	Rouging charges		Rs.			
10.	Insecticides		Rs.			
11.	Incidental charges		Rs.			
	<b>Working capital</b>		Rs.			
12.	Land revenue & other taxes		Rs.			
13.	Depreciation on farm implements & farm building		Rs.			
14.	Interest on working capital		Rs.			
15.	Repairing charges		Rs.			
	<b>Cost- A</b>		Rs.			
16.	Rental value of land		Rs.			
17.	Interest on Fixed capital		Rs.			
	<b>Cost- B</b>		Rs.			
18.	Family human labour	Male	Days			
		Female	Days			
	<b>Cost- C</b>		Rs.			
19.	Yield per hectare		Rs.			
20.	Value of by produce / Ha		Rs.			
21.	Net cost 'C' of the by produce /Ha		Rs.			
22.	Per quintal cost of cultivation of the main produce		Rs.			
23.	B:C ratio					

Conclusion:

Students Comment:

Farmers Comment:

Students Sign.

Contact farmers Sign.

Examiners Signature

**RAWE - AGRICULTURAL BOTANY****RAWE SCHEDULE BOT-1/B: Collection of Germplasm (Wild Species, Landraces, Local Varieties etc.)**

Name of Student:

Reg. No.:

Semester:

<b>Sr. No.</b>	<b>Particulars</b>	<b>Remarks</b>
1	Crop name	
2	Botanical name	
3	Local name	
4	Name of person from whom collected:	
5	Place of collection	
	Date of collection	
6	Nature of genetic material (Seed / Tubers/Roots / Bulbs / Vegetative cuttings / Whole plant / graft	
7	Unique feature(s) of collected germplasm	
8	Quantity deposited	

Conclusion:

Students Comment:

Farmers Comment:

Students Sign.

Contact farmers Sign.

Examiners

Signature

# Horticulture



**Schedule HORT 2 Documentation of Indigenous Technical Knowledge (ITK) practices  
followed in cultivation of major horticultural crops in the village**

**Schedule – 2A** (Collect following information of any **One Major** Horticulture crop)

**1. A. Documentation of Daily operations of major Horticultural Crops:**

Collect daily operations carried out by farmer in selected crop

Name of student	:	_____
Name College	:	_____
Regd. No.	:	_____
Name of centre	:	_____
Name of the host/Contact farmer	:	_____
Name of Village	:	_____
Name of the crop	:	_____
Variety grown by farmer	:	_____
Survey	:	_____
Area(ha)	:	_____
Previous crops	:	_____
Irrigated/Un-irrigated	:	_____

**HORTICULTURE SCHEDULE**

**Schedule HORT 2B** Documentation of Indigenous Technical Knowledge (ITK) practices followed in cultivation of major horticultural crops in the village

1. Name of the Student :
2. Reg. No. :
3. Name of Host farmer :
4. RAWE Center :
5. Name of the Village :
6. Taluka Place of Village :
7. District Place of Village :

Sr. No.	Name of ITK Particular		ITK - Indigenous Technology Knowledge
1.	Selection of site	:	
2.	Land preparation & Basal dose	:	
3.	Selection of variety	:	
4.	Planting time/spacing/Basal fertilizer dose with FYM /Vermicompost/Biofertilizers	:	
5.	Irrigation	:	
6.	Weeding	:	
7.	If any inter crop taken should be mentioned	:	
8.	Top dressing	:	
9.	General & special practices followed e.g (Gap filling/ thinning/Earthing /training/ pruning /pinching/disbudding/ bending etc.)	:	
10.	Plant protection(Use of Insecticide/ Pesticides/Fungicide/Biopesticides / Organic spray)	:	
11.	IPM/INM practices followed		
12.	Harvesting ( Give maturity indices of selected crop/Harvesting time/method of harvesting (Manual/Machine)	:	
13.	Post Harvest Management	:	



	(Post Harvest chain should be provided) <b>Attach separate sheet if required</b>		
14.	Indigenous Technical Knowledge (ITK) followed by farmer in selected crop	:	
15.	<b>Yield</b> a. Main crop b. Inter crop	:	
16.	Any Disaster Management (Drought, Flood, Dry Spell, Wet. Spell, Cyclone , any infection)	:	

**PART – 1C**

**HORTICULTURE DEMONSTRATIONS: (ANY TWO)**

1. Demonstration on budding and grafting techniques in horticultural crops
2. Demonstration on layout of orchards of horticulture crops
3. Demonstration on digging and filling of pits for horticulture crops
4. Demonstration on scientific plantation of horticultural crops
5. Demonstration on rejuvenation of old orchards
6. Knowledge and utilization of apps in seeking information about production technology of horticultural crops
7. Demonstration on seed bed preparation
8. Group discussion on nursery management

# **Agril. Entomology**

**RAWE - AGRIL.ENTOMOLOGY**  
**RAWE SCHEDULE : ENTO- I**

**1. Monitoring for incidence and determining extent of damage**

Name of the student:

Name of the Farmer:

Name of the crop:

Variety:

Area:

Sowing/transplant date :

**Table I: Monitoring for incidence and determining extent of damage in farmer's field.**

<b>A. Sucking Pests</b>													
<b>M W No.</b>	<b>Block</b>	<b>Av. population of sucking pests</b>											
		<b>Name of pest:</b>						<b>Name of pest:</b>					
		<b>Pl 1</b>	<b>Pl 2</b>	<b>Pl 3</b>	<b>Pl 4</b>	<b>Pl 5</b>	<b>Average</b>	<b>Pl 1</b>	<b>Pl 2</b>	<b>Pl 3</b>	<b>Pl 4</b>	<b>Pl 5</b>	<b>Average</b>
	I												
	II												
	III												
	IV												
	V												
	Average												
<b>Control measures</b>													
<b>B. Foliage feeders</b>													
	<b>Block</b>	<b>Percent vigor damage due to infestation of</b>											
		<b>Name of pest:</b>						<b>Name of pest:</b>					
		<b>Pl 1</b>	<b>Pl 2</b>	<b>Pl 3</b>	<b>Pl 4</b>	<b>Pl 5</b>	<b>Average</b>	<b>Pl 1</b>	<b>Pl 2</b>	<b>Pl 3</b>	<b>Pl 4</b>	<b>Pl 5</b>	<b>Average</b>
	I												
	II												
	III												
	IV												
	V												
	Average												
<b>Control measures</b>													

C. Borer pests									
Block	Av. percent infestation in fruit or shoot or plant								
	Pest:			Pest:			Pest:		
	Damaged plant part:			Damaged plant part:			Damaged plant part:		
	Infested	Total	% Infestation	Infested	Total	% Infestation	Infested	Total	% Infestation
I									
II									
III									
IV									
V									
Average									
Control measures									

**Schedule ENT II**  
**Indigenous Technical Practices for pests**

**Table II: Indigenous Technical Practices followed by farmers to suppress pest and diseases.**

Sr. No.	Crop	Indigenous Technical Practices adopted	Effect on crop and pests
1			
2			
3			
4			
5			
6			

# Plant Pathology

**RAWE - PLANT PATHOLOGY**  
**RAWE SCHEDULE : PATH-I(A)**

**GENERAL POSITION OF PLANT DISEASES IN A VILLAGE AND  
DISEASE SITUATION IN A HOST FARMERS FIELD**

I] GENERAL POSITION OF PLANT DISEASES IN A VILLAGE

1. Name of the Student :
2. Regd. No. :
3. Centre :
4. Village :
5. Major crops grown in the village :

Name of the Crops	Name of the disease	Per cent Disease Intensity / Incidence
a. Agronomical crops (Any Five) 1. 2. 3. 4. 5.		
b. Horticultural Crops (Any Five) 1. 2. 3. 4. 5.		

**Documentation of Indigenous technical knowledge(ITK) practices followed for integrated disease Management in the village**

## II] PLANT DISEASE SITUATION IN HOST FARMERS FIELD

1. Name of the Student : \_\_\_\_\_
2. Regd. No. : \_\_\_\_\_
3. Centre : \_\_\_\_\_
4. Village : \_\_\_\_\_
5. Name of the host farmer : \_\_\_\_\_
6. Date of observation: 30 DAS

Name of the Crops	Variety	Name of the disease	Intensity/Incidence of disease	Description of plant protection measures followed	Expected Losses	Actual Losses
a. Agronomical crops						
1.						
2.						
3.						
4.						
5.						
b. Horticultural Crops						
1.						
2.						
3.						
4.						
5.						

Summary / Conclusion:

**RAWE SCHEDULE PATH- 1 (B)**  
**PLANT DISEASE MANAGEMENT ON HOST FARMERS FIELD**  
**(IDM of one major crop)**

1. Name of the Student : \_\_\_\_\_
2. Regd. No. : \_\_\_\_\_
3. Centre : \_\_\_\_\_
4. Village : \_\_\_\_\_
5. Name of the host farmer : \_\_\_\_\_
6. Name of crop :
7. Name of the variety :
8. Seed treatment :
9. Selection of seed :
10. Collection and destruction of stubbles :
11. Soil and Water Management :
12. Rouging of diseased plants :
13. Spraying / dusting of any fungicide :
14. Use of bio-agents :
15. Use of resistant variety :
16. Use of combination of management practices :
17. Conclusion :



# **Agril. Engineering**



iii) Impact of Agro Industries on village before and after the industry

B) Study of Agro. Processing and preservation under taken by host farmer for domestic consumption

Sr. No.	Name of the Crop/ Vegetables / fruits/ flowers/ allied products	Methods of harvesting	Methods of threshing	Technique adopted for processing and preservation	Storage period	Remark

**Total Production:**

**Method of drying (grain crops):**

**Quantity stored and marketed:**

**Structure used for storage:**

**Any treatment during storage:**

**Any Spoilage during storage:**

**Comments on cold chain including logistic chain:**

**New technique adopted for storage/ preservation if any:**

-----

**RAWE SCHEDULE- Food processing and storage interventions  
SCHEDULE ENGG-2**

**Documentation of Indigenous Technical Knowledge (ITK) practices  
followed in Food , Processing, Preservation and Storage in the village**

**Name of the student:**

**Registration No.:**

**College:**

**Center which attached:**

- 1) **Title of ITK**
- 2) **Historical Background ( Association with Culture/tradition, rural way of life, locality etc)**
- 3) **Source of ITK (Traditions, Family inheritance, literature)**
- 4) **Details of ITK**
  - a) Raw Material
  - b) Production process
  - c) Available infrastructure
  - d) Storage/Warehouse facilities
  - e) Transport & Marketing
- 5) **Assessment of Geographical factors in development of ITK**
- 6) **Analysis of local factors in development of ITK**
- 7) **Scrutinize challenges faced by ITK**
- 8) **Assess reach of institutional support provided by government, NGOs & private sector**
- 9) **Investigate opportunities and threat for the ITK**

**Assessment of necessary interventions for growth of ITK**

- a) Skill development & Capacity building
- b) Technology up gradation / training
- c) Raw Material availability
- d) Up gradation of infrastructure
- e) Design & Product development
- f) Credit support
- g) Demand driven approach (Demand based product development)
- h) Marketing/Product promotion

**Comment Emerging & non conventional technologies for growth of ITK**

- a) Leveraging e-commerce platform
- b) Promotion of traditional arts/artifacts through social media
- c) Eco friendly product positioning

**RAWE-AGRICULTURAL ECONOMICS**  
**RAWE SCHEDULE- ECON - I**

**TECHNO-SOCIO-ECONOMIC SURVEY OF HOST FARMERS**

Name of Student : \_\_\_\_\_  
 Registration No. : \_\_\_\_\_  
 College : \_\_\_\_\_  
 Center to which attached : \_\_\_\_\_  
 1. Name of the head of the family  
 a) Sex - Male/Female : \_\_\_\_\_  
 b) Age(years) : \_\_\_\_\_  
 c) Education : \_\_\_\_\_  
 d) Address : Village \_\_\_\_\_ Post \_\_\_\_\_ Taluka \_\_\_\_\_ District \_\_\_\_\_

**2. Information of the family members including attached (Permanent) labours.**

Sr. No.	Name	Sex	Relation	Age	Education	Occupation	Remark
1							
2							
3							
4							
5							
6							
7							

**B Assets**

**l) Land**

Sr. No.	Gat No./ Survey No.	Area (ha.)		Soil Type	Present Value (Rs.)	Land Revenue and other taxes (Rs.)
		Dry	Irrigated			
1						
2						
3						
4						
5						
6						
7						

**II) Source of irrigation and area irrigated:**

Sr. No.	Source	Number	Area Irrigated (ha.)		
			4 Months	8 Months	Perennial
1	Well				
2	Lift				
3	Tank				
4	Canal				
5	Other				

**III) Buildings:**

Sr. No.	Category	Type of construction	Size	Present value (Rs.)	Remarks
1	Residential House				
2	Farm House				
3	Cattle Byre				
4	Store				
5	Other				

**IV) Livestock position of the farmer:**

(Draught animal, cows, buffaloes, calves, sheep, goat, poultry etc.)

Sr. No.	Category	Breed	No. of animals	Present value (Rs)

**V) Implements and Machinery**

Sr. No.	Category	Number	Present value (Rs.)
A Implements	a) Wooden plough		
	b) Iron plough		
	c) Seed drill		
	i) Local		
	ii) Improved		
	d) Harrow		
	e) Hoes		

	f) Clod crusher		
	g) Others (specify)		
B Equipments	a) Bullock cart		
	b) Duster		
	c) Sprayer		
	d) Others		
C Machinery	a) Electric Motor		
	b) Oil Engine		
	c) Tractor		
	d) Power Tiller		
	e) Truck		
	f) Power Sprayer/Duster		
	g) Thresher		
	h) Others		

#### VI) Household Material

Sr. No.	Name of Material	Number	Value (Rs.)
1	Bicycle		
2	Scooter		
3	Motorcycle		
4	Moped		
5	Car		
6	Television		
7	Radio		
8	Tape recorder		
9	Refrigerator		
10	Mixer cum grinder		
11	Washing machine		
12	Steel cupboard		
13	Gobar Gas Plant		
14	Solar Energy		
15	Others		





Rabi	i)											
	ii)											
	iii)											
	iv)											
	v)											
Summer/ Perennial	i)											
	ii)											
	iii)											
	iv)											

**XI) Annual gross income (previous year)**

Sr. No.	Source	Amount (Rs./year)
1	Crops	
2	Livestock	
3	Wages	
4	Others	
	i)	
	ii)	
	iii)	
	iv)	
	Total	

**X) Annual family consumption expenditure (previous year)**

Sr. No.	Head	Amount (Rs/year)
1	Food	
2	Housing	
3	Education	
4	Clothing	
5	Health	
6	Recreation	
7	Travel	
8	Gifts	
9	Lighting	
10	Foot wares	
11	Religious function	
12	Others (specify)	

**XI) Information about borrowings including old loans (Previous year)**

Sr. No.	Source	Kisan Credit Cards details	Amount borrowed	Purpose date	Rate of interest	Repayment during the year	Outstanding (Rs/year)
1	Co-operative Society						
	Types of credit						
2	Land development Bank						
3	Government						
4	Commercial Bank						
5	Money lenders						
6	Friends						
7	Relatives						

**I. Problems in securing credit**

1. Institutional
- 2.
3. Non institutional

**II. Suggestions to overcome the problems in credit availing from farmers:****XIII. General Problems faced by the family regarding:**

- A. Crop Production
- B. Livestock
- C. Credit
- D. Marketing
- E. Adoption of modern technology
- F. Others

**XIV) Inference:**

- 1) **Suggestions by the family to overcome the problem**

**II) Opinion of investigator about general conditions of the family (Financial, Educational, Social, Health, etc.)**

**Financial**

**Educational**

**Social**

**Health**

**Signature of Farmer**

**Signature of Student**

**Signature of In-charge**





**RAWE AGRICULTURAL ECONOMICS**  
**RAWE SCHEDULE- ECON -II (B)**  
**A. COST OF CULTIVATION FOR ALL CROPS**

Name of student:

College :

Centre to which attached :

Regn. No.:

Name of the host farmer :

Village:

Name of the crop :

Variety:

Area(ha) :

Sr. No	Item	Unit	Quantity used (kg)	Rate per unit (Rs)	Total cost (Rs.)
1	Hired human labour (Male)	Days			
	Hired human labour (Female)	Days			
2	Bullock labour	Pair days			
3	Machinery charges	Hrs			
4	Seed	Kg/q			
5	Manure	Kg/Tones			
6	Fertilizers (in term of nutrient)	N (Kg.)			
		P <sub>2</sub> O <sub>5</sub> (kg)			
		K <sub>2</sub> O (Kg.)			
	Micronutrient	Kg/lit			
7	Irrigation charges	No.s			
8	Insecticides / Fungicides	g/kg/lit			
9	Land Revenue Cess and Taxes	Rs.			
10	Depreciation on implements and farm building.	Rs.			
11	Expenses on acquisition of inputs	Rs.			
12	Interest on working capital	Rs			
13	<b>Cost - A</b>	Rs.			
14	Rental value of land	Rs.			
15	Interest on fixed capital	Rs.			
16	<b>Cost-B (cost A+14+15)</b>				
17	Family human labour (Male)	Days			
	Family human labour (Female)	Days			
18	Cost C i.e. total cost per ha.	Rs.			
19	Supervision charges 10% of Cost	Rs.			

20. a) Main yield Qty.(q)

b) Income from Main yield (Rs.)

c) By produce Qty (q)

d) Income from by-produce (Rs.)

21. Total yield in q (a+c) \_\_\_\_\_ Gross income (value) (b+c) Rs. \_\_\_\_\_

22. Yield per hectare \_\_\_\_\_ Total value Rs \_\_\_\_\_

23. Per quintal cost of production Rs. \_\_\_\_\_

#### B. Marketing of produce

1. Total produce sold q Crop-wise)

i)

ii)

iii)

2. Labour required for marketing: Male (days) Total Rs.....

Female (days) Total Rs .....

Bullock pairs\_(days) Total Rs.....

3. Marketing charges i) Marketing fee Rs. \_\_\_\_\_

ii) Others Rs. \_\_\_\_\_

4. Total marketing cost : Rs. \_\_\_\_\_

**Marketable surplus of Farm produce**

107

Sr. No.	Name of crop	Qty. produced in qtl.	Quantity required for consumption & other purpose	Qty. sold in qtl.	Price / qtl.	Total value

**III) Marketing channels used for selling the produce (last year)**

Sr. No.	Marketing channel used	Name of the produce sold	Quantity sold
1	Village level traders		
2	Commission agents		
3	Wholesalers		
4	Co-operative. Societies		
5	Input agency		
6	Self		
7	Any other (specify)		

**III) Marketing channels used for selling the produce (Current Year)**

Sr. No.	Marketing channel used	Name of the produce sold	Quantity sold
1	Village level traders		
2	Commission agents		
3	Wholesalers		
4	Co-operative, Societies		
5	Input agency		
6	Self		
7	Any other (specify)		

**I .Problems in marketing of produce**

1. Direct Marketing
2. Marketing through market middleman



II. Suggestions to overcome the problems from far

<b>RAWE SCHEDULE III (ECON/AHDS)</b> <b>Consolidated annual expenditure and receipt statement from animal enterprises</b>									
Name of the Student:			Regd. No:			College:			
Name of village and Centre:									
Name of the Host Farmer:									
Species	Number	Expenditure			Total(Rs.)	Income		Per year	
		Annual maintenance and feeding expenses	Depreciation (Rs.)			Item of Livestock production	Total (Rs.)	Net profit (Rs.)	Net loss (Rs.)
			Animal	Buildin g		Milk			
Cow						Manure			
Buffalo						Sale / Hide			