

**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:**

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

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

<b>Class of Livestock</b>		<b>Numbers</b>
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)

Sr. No.	Particulars	No. of farmers	Sr. No	Particulars	No. of farmers
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 : -----