

Phaltan Education Society's

# **College of Agriculture, Phaltan**

Affiliated to

MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI

## **RURAL AWARENESS WORK EXPERIENCE & AGRO-INDUSTRIAL ATTACHMENT**

**NAME :- Nale Sameer Bhanudas.**

**REG.NO. :- CAP-2017/86.**

**SESSION:- 2020-2021 .**

**RAWE CENTRE :- A.C.PHALTAN .**

**COURSE NO. :- EXTN**

**VILLAGE :- Dudhebavi**

# WEL-COME

Phaltan Education Society's

**College of Agriculture, Phaltan – 415523**

Affiliated to

Mahatma Phule Krishi Vidyapeeth, Rahuri

**RURAL AWARENESS WORK EXPERIENCE  
&  
AGRO-INDUSTRIAL ATTACHMENT  
2020-2021**

**CENTRE:- A.C.PHALTAN**

**VILLAGE:- Dudhebavi.**

**• CERTIFICATE •**

This is to certify that, Mr. Nale Sameer Bhanudas.  
Reg. no. **CAP-2017/86** Has Satisfactory completed the  
Requiment of RAWE (RURAL AWARENESS WORK  
EXPERIENCE) In the Village Dudhebavi, In the subject of EXTN  
Offered During The Semester 7 of The Academic Year 2020-2021.

**PROGRAMME OFFICER**

COLLEGE OF AGRICULTURE,  
PHALTAN

**RAWE & AIA CHAIRMAN**

PRINCIPAL  
COLLEGE OF AGRICULTURE,  
PHALTAN

**College of Agriculture, Phaltan**

**\*RAWE & AIA PROGRAMME\***

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| 2.                    | <b>Techno Socio-Economic Survey of Village</b>  |             |        |
| 3                     | <b>Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural purposes</b>           |             |        |
| <b>DEMONSTRATIONS</b> |   |             |        |
| 1.                    | <b>Demonstration on organization of need based training class for farm women i.e. Basundi</b>                       |             |        |
| 2.                    | <b>Knowledge and utilization of apps in seeking information about production technology of horticultural crops.</b> |             |        |

# **EXTN SCHEDULES**

**SCHEDULE NO.:- 1**

# **Conducting Participatory Rural Appraisal (PRA)**

## **RAWE AND AIA SCHEDULE: EXTN-I**

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

#### **1. NAME OF VILLAGE:-**

A/P. Dudhebavi , Tal. Phaltan Dist. Satara..

## **2. PURPOSE OF PRA:-**

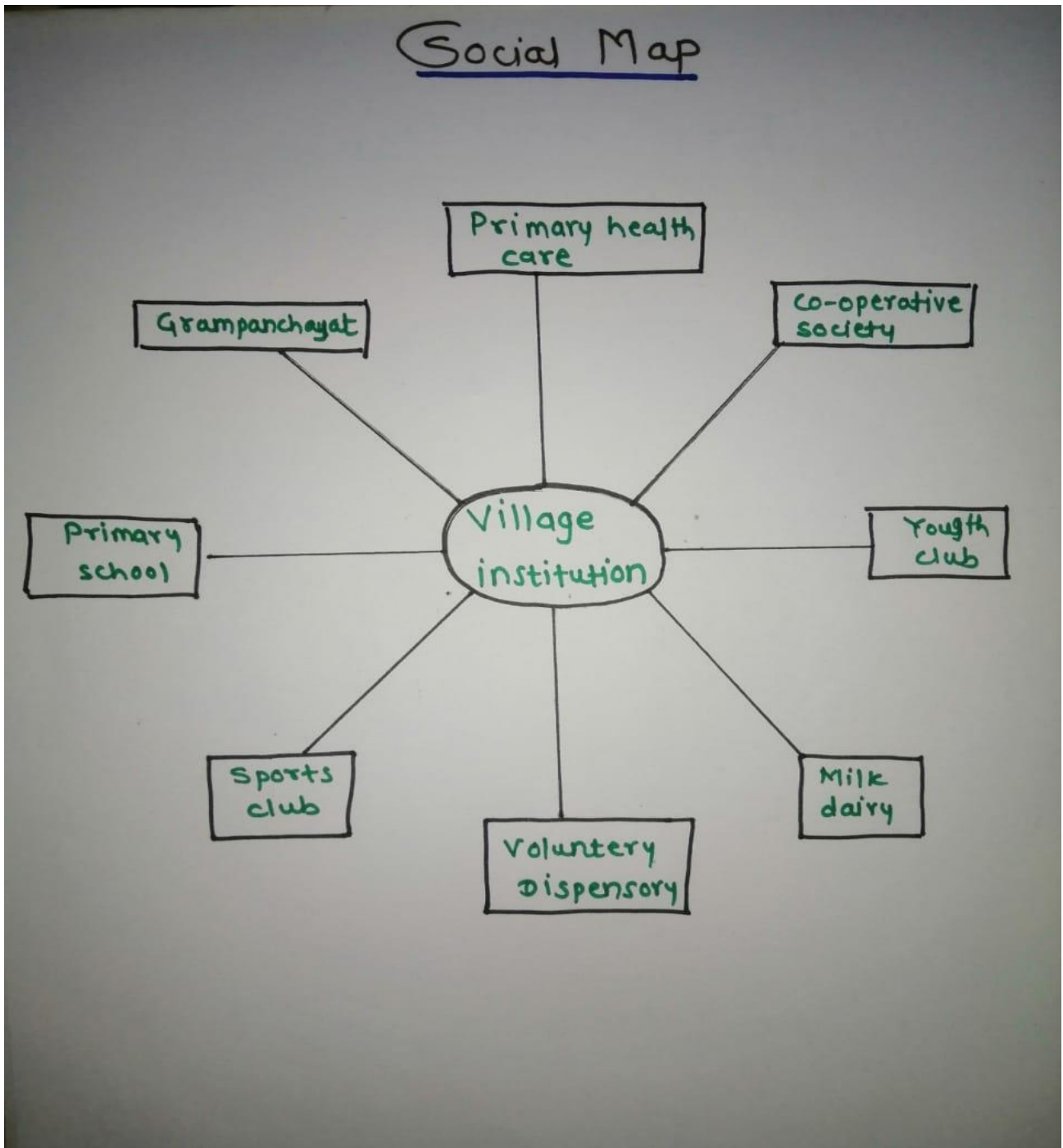
- i. For greater and better involvement of villagers by learning about their participation, experiences and capabilities.
- ii. To generate information and collection of data for immediate future use.
- iii. For learning about the impact of earlier or on going policies and programme and frame new workers.
- iv. For estimating trends and ascer training conditions of the tissue at a hand.
- v. To know the condition of village
- vi. For validating or cross checking of data collection from other courses.
- vii. For training of different categories of person involved in development process, whether from government, NGO, NGRO Banks, Donor agencies, researcher extension agents, Scientists etc.
- viii. For research studies on use of PRA and to suggests improvements in its methodology.

## **3. RESOURCE PERSON CONTACTED PRIOR TO CONDUCTED PRA:-**

Mr. Madhukar gulab wavare. (former Sarpanch, Dudhebavi)

## **4. ACTIVITIES EXERCISED IN PRA:-**





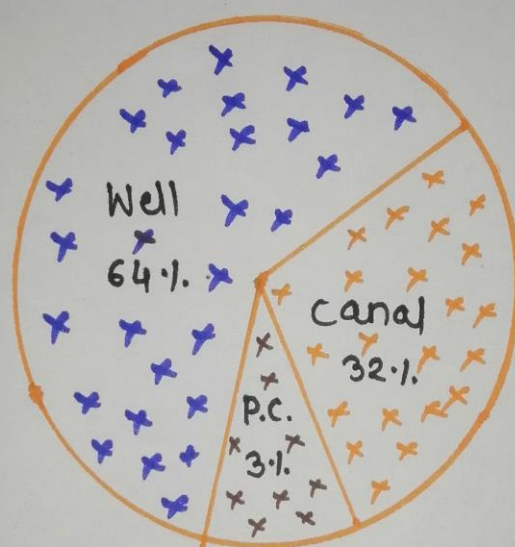
## REPORT ON SOCIAL MAP

**DEFINATION OF SOCIAL MAP:-**


Social map is cartographic two dimensional representation of social institutions or process projected on a place.


1. In the village, Dudhebavi, social communities like grampanchayat, primary schools, high school , dairy unit, self-help group, shops etc. are in the village.
2. Grampanchayat comprising 9 members from all political parties, which includes all members from all religious and caste.
3. Social contribution of village is good.
4. Transportation facilities are available.
5. All instruction of village is properly functioning and all school co-operation among all social communication is good.

# Irrigation Map



 - Well

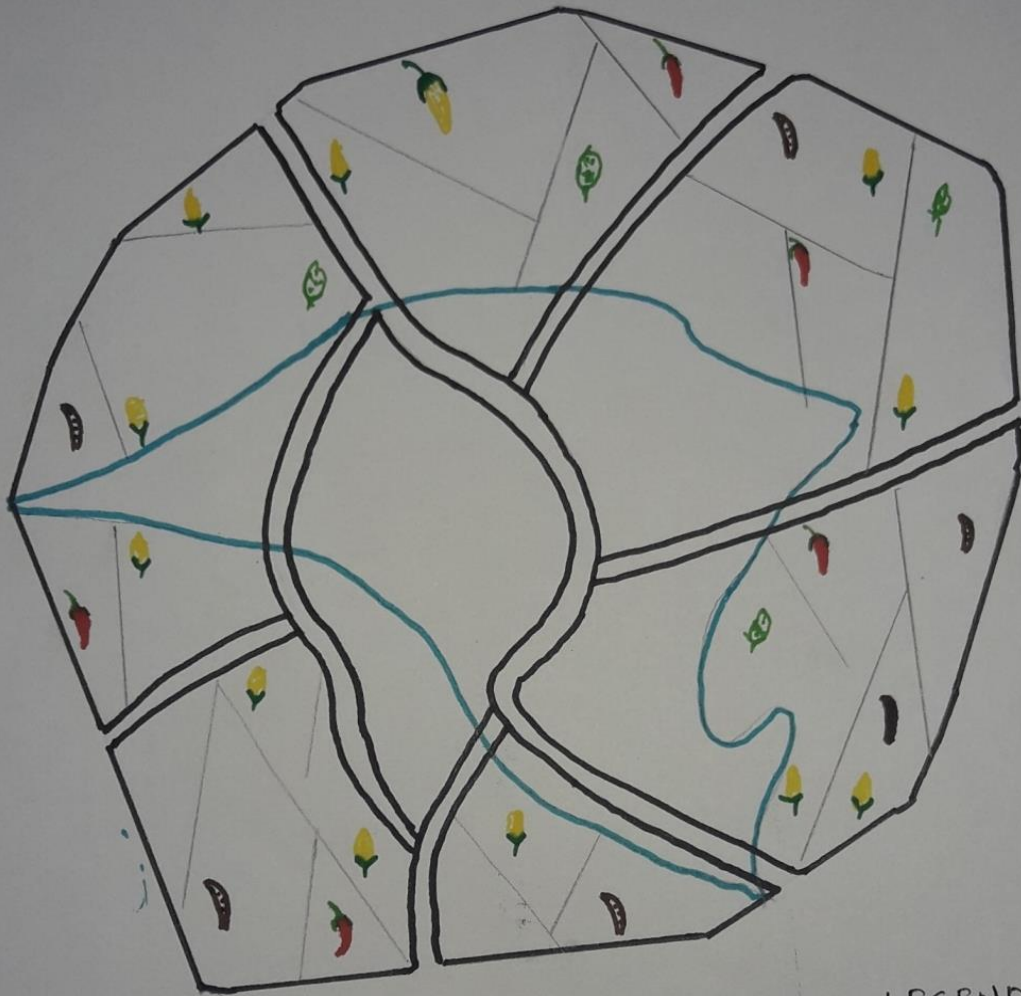
 - canal

 - Private lifts

## **REPORT ON IRRIGATION MAP**

1. In the village source of irrigation is sufficient for crop production.
2. There are 1500 wells and 16 farm ponds.
3. Large area is irrigated under the well water.
4. Among the area irrigated 70% area is irrigated under well, 20% area irrigated under borewell and 10% area under other sources.

# Cropping Pattern Map (Kharif Crop)



## LEGEND



- chilli



- Green gram



- maize

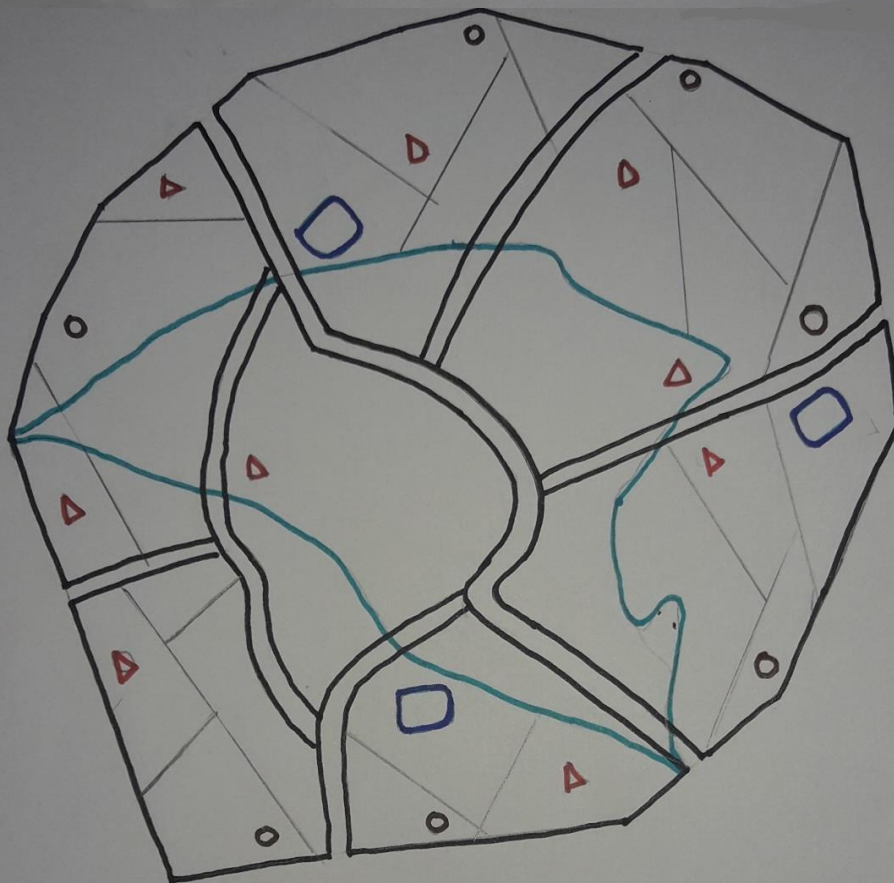





- sorghum

## **COMMENTS ON CROPPING PATTERN MAP**

1. In my RAWA village, Nimsakhar, there are many crops grown in the kharif, rabi, and summer season.
2. The agronomical as well as horticultural crops grown in this village in kharif season.
3. The mostly the green gram, maize, sorghum and chilli is grown.

# Resource Map - Water Source



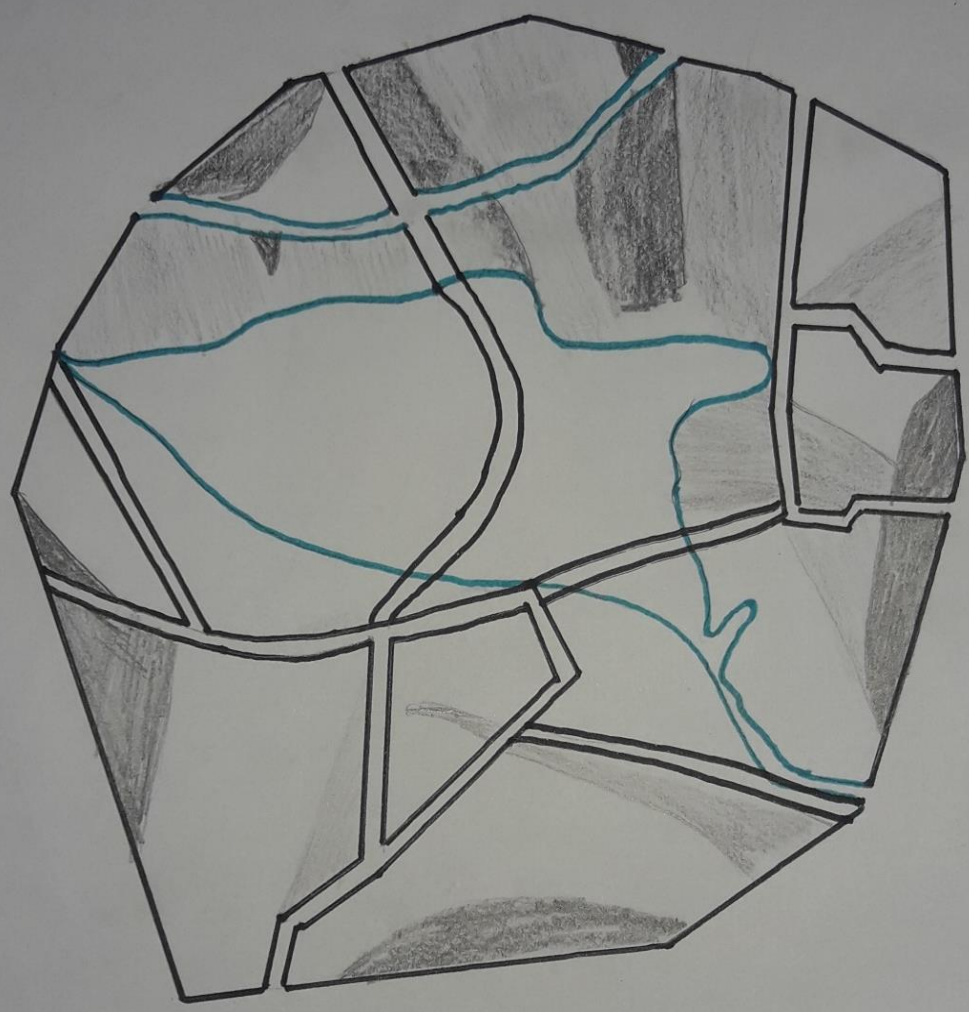
| LEGEND  |   |   |
|---|---|---|
|  |  |  |
| Dug well  | Bore well   | Farm pond.  |




**COMMENTS ON HYDROLOGY MAP**

1. The availability of water for daily use through the dug wells, borewells and farm pond and hand pump in villege are available in the village.
2. The streams are active only in the rainy season. The small bunds are available on the streams that store the water for future use.



# Resource Map - Water Source

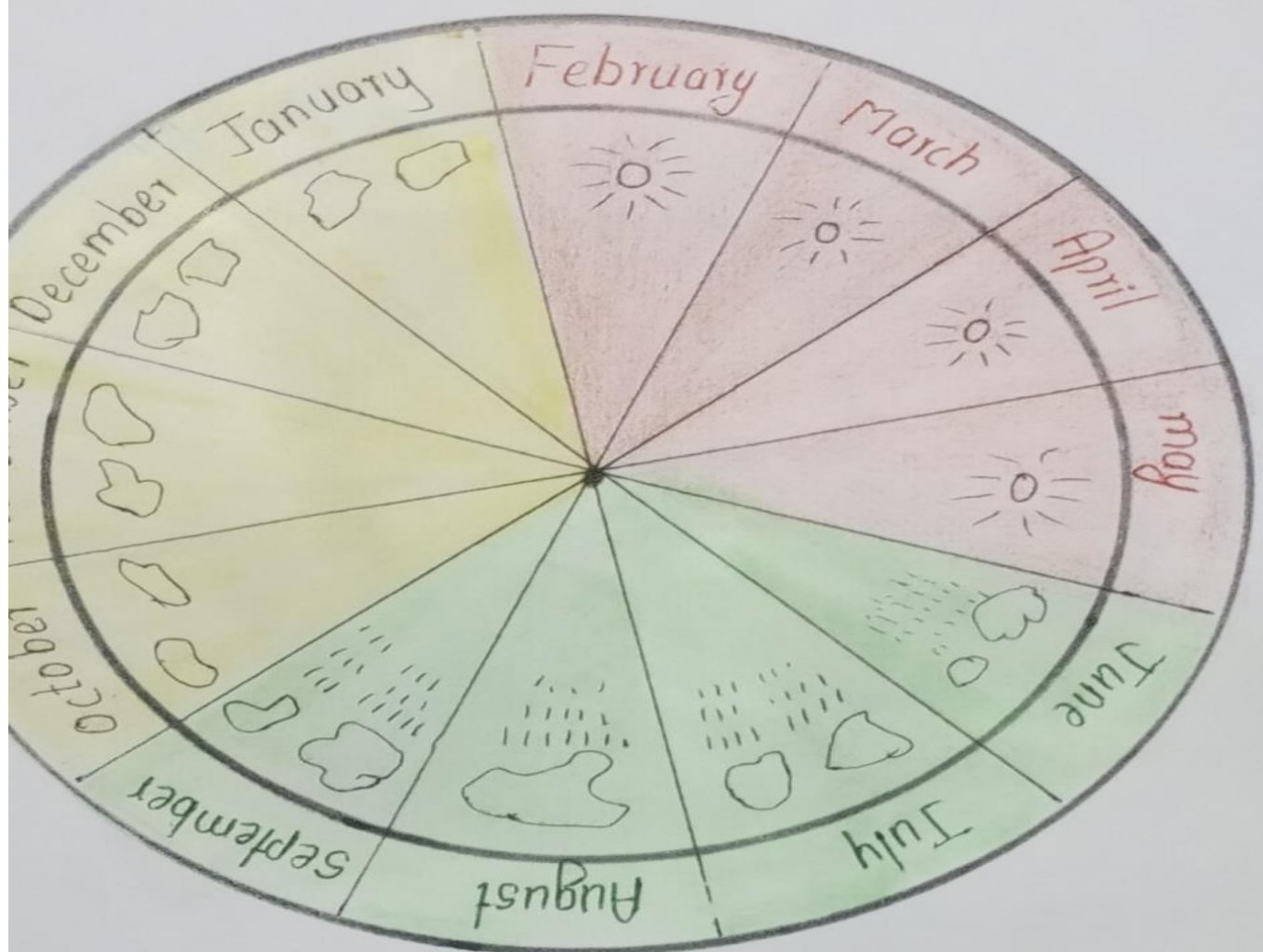


|   |   |   |
|---|---|---|
|  |  |  |
| Black<br>soil   | medium<br>Black   | light<br>soil   |




## **COMMENTS ON RESOURCE MAP (SOIL TYPE)**

1. Resource map involve natural resource in which main things are soil water & land
2. The natural resource like soil is available in village in different types in different places in village.
3. Mostly 3 types of soil are presnt in villege.
4. Mostly the black soils are available in the village, after that median blacky soils and light soils are available in this village.

# Seasonal Map



Season

-  kharif
-  Rabi
-  Summer

# **REPORT ON SEASONAL CALENDAR**

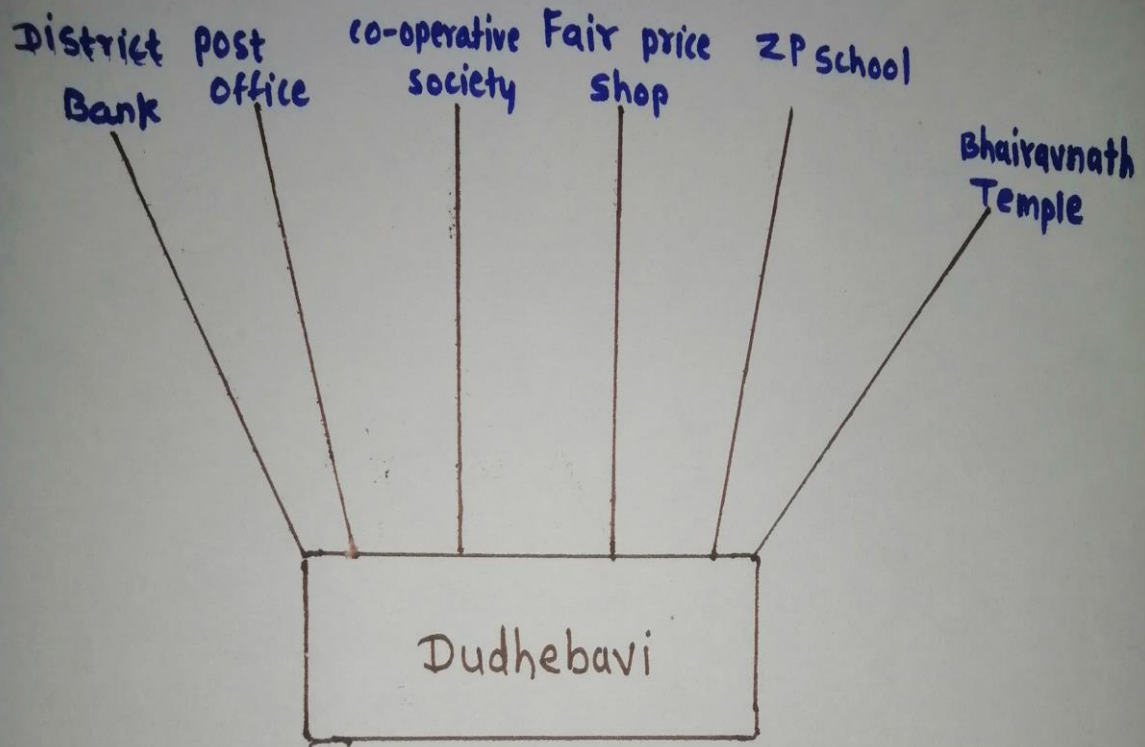
## **DEFINATION:-**

A seasonal calendar is a participatory tool to explore changes which show changes in climate, or agricultural activities.

**KHARIF CROP-** In kharif season most of area is under the chilli green gram maize sorghum etc.

**RABI CROP-** in rabi season most of the area us under the jowar, gram, sugarcane, wheat etc.

**SUMMER CROP-** in summer season area is under the sugarcane crop and follow land.



## COMMENTS ON VENN DAIGRAM

1. Grampanchayat is a major which is linked with other institutions of villages.
2. Co-operative credit society support farmers financially, they give short, medium, long term loan to farmers of village.
3. Primary school is attached by grampanchayat by educational committee.
4. Fair price shop is attached with grampanchayat to provide the essential things at low prices.
5. Self help group can help the farmers of villege.

# Daily Routine Diagram

## Village

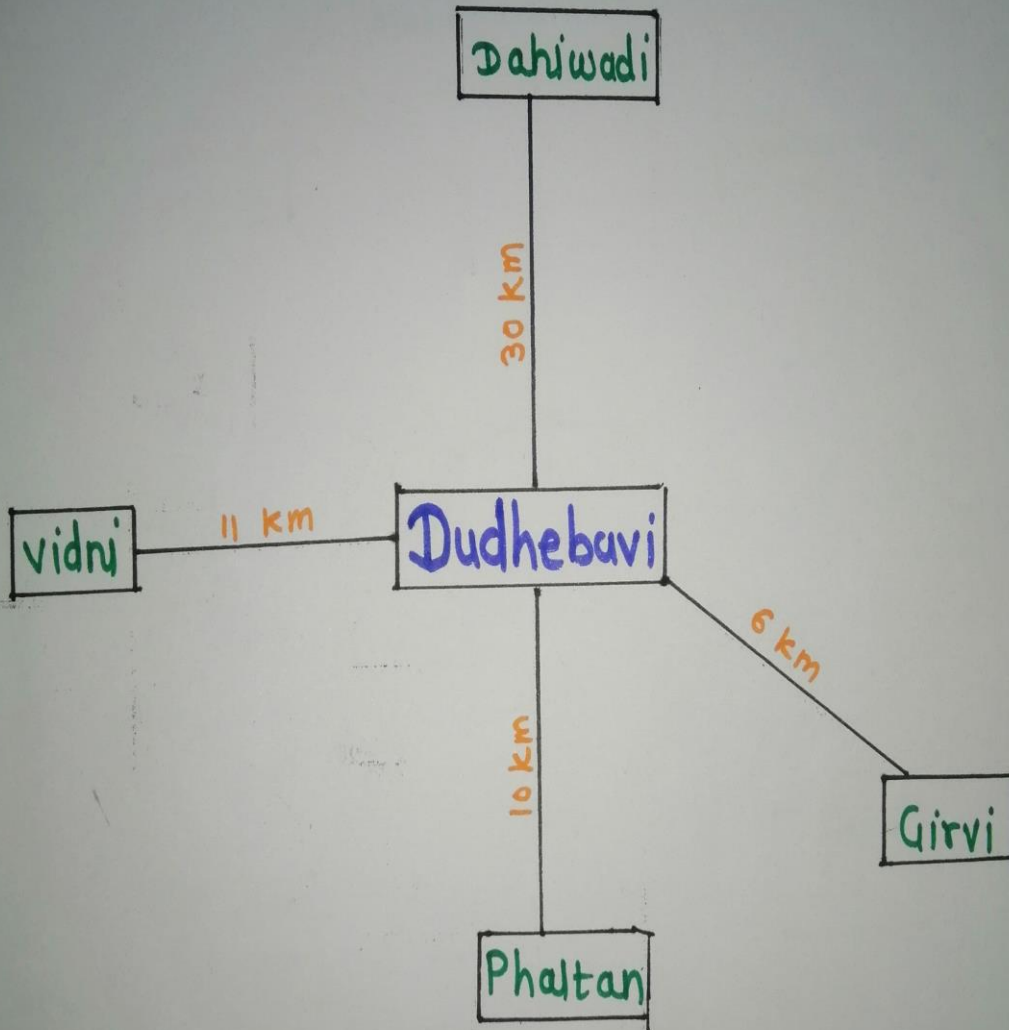
| Time     | Rural Men                                  | Rural Women           |
|----------|--|-----------------------|
| 5 am     | Wake Up                                    | Wake Up               |
| 5.30 am  | Cleaning animal shed,<br>feeding animal    | Household<br>activity |
| 6 am     | Daily Labour                               | Daily Labour          |
| 12 noon  | - do -                                     | - do -                |
| 12.30 pm | Bathing and feeding animal                 | Kitchen Work          |
| 1.30 pm  | Lunch                                      | Lunch                 |
| 2 pm     | Daily Labour                               | Daily Labour          |
| 4.30 pm  | Marketing for household                    | Taking rest           |
| 6 pm     | Spending time at village tea<br>shop       | Watching TV           |
| 7 pm     | Spending time at village club<br>or samite | Household<br>activity |
| 8 pm     | Feeding animal                             | Kitchen Work          |
| 9 pm     | Dinner                                     | Dinner                |
| 10 pm    | Sleep                                      | Sleep                 |

## **DAILY ROUTINE DIAGRAM**

1. In this village, the daily routing of the village peoples are from the 5 am to 10 pm.
2. They carried out the many operations in their farm and other subsidiary enterprises.
3. The rural men and rural women daily routing are almost same, but different in their work.



# Mobility Map



## MOBILITY MAP

1. In nimsakhar village the major occupation is farming some peoples are migrated for education and job reasons.
2. The rate of migration for the reason of education is increase in every year .
3. Peoples are migrated for job reason goes to factories for work.
4. Peoples are migrated from nimsakhar village to walchandnagar, bhavda, akhuj, shelgaon.
5. In nimsakhar village the student are migrated to the walchandnagar for education purpose
6. Some peoples are also migrated from nimsakhar village to walchandnagar, akhuj for hospitals and other reason.

## **Identify problems like**

### **A) Crop production:**

1. Unavailability on inputs.
2. Lack of labours at the time sowing, harvesting, weeding, etc.
3. Less sources of water.
4. Lack of knowledge about production.
5. Problems in controlling of weeds.
6. Lack of knowledge about pest and diseases and their identification which causes less yield.

### **B) Horticultural Crop :**

1. Lack of knowledge of management practices.
2. Lack of knowledge about pest and diseases and their identification which causes less yield.
3. Less availability of water.
4. Lack of proper knowledge of fertilizers and its applications.
5. Water logging condition in rainy season.

### **C) Adoption of Modern Technology:**

1. Lack of knowledge about new techniques.
2. Lack of skilled labours.
3. Maintenance is high and costly.
4. Lack of organization of training class.
5. Lack of knowledge about govt. funds for new equipments.

### **D) Animal Husbandry & Livestock Mangement.:**

1. Cost of milk is low.
2. Expensive cost of concentrates.

3. Unavailability of veterinary facilities.
4. Due to rain, fodder crops are wasted.
5. Lack of organization of vaccination campaign.
6. Lack of knowledge about utilization and management of animals and livestock.

**E) Credits :**

1. Lack of repayment loan payment in time.
2. Lack of knowledge about bank facilities.
3. Unsatisfactory credit conditions.
4. Lack of knowledge about govt. schemes.
5. Lack of information about loans.

# **SCHEDULE NO.:- 2**

## **TECHNO-SOCIAL SURVEY OF VILLAGE**

## TECHNO-SOCIAL SURVEY OF VILLAGE

**Name of Student: Nale Sameer Bhanudas.**

**Registration No: CAP-2017/86**

College: College of Agriculture phaltan

### 1. Name of the village: Dudhebavi

Taluka: \_\_Phaltan\_\_ Distance from village (km): \_\_10km\_\_

District: \_\_satara\_\_ Distance from village (km): \_\_75km\_\_

### 2. Transport and communication

i) Bus station : phaltan\_\_ Distance from village (km):\_\_10km\_\_

ii) Railwaystation : \_\_phaltan\_\_ Distance from village (km):\_15km\_\_

iii) Post office : \_sonawadi kh.\_\_ Distance from village (km):\_\_1km\_\_

iv) Telephoneoffice : \_\_phaltan\_\_. Distance from village (km):\_13km\_\_

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

| Sr.No. | Category                    |            | No. of families | Percentage (%) |
|--------|-----------------------------|------------|-----------------|----------------|
| i)     | Agriculturist.              | 713        |                 | 87.37          |
| ii)    | Landless Agril. Labourers   | 65         |                 | 7.96           |
| iii)   | Village Artisans            | 20         |                 | 2.45           |
| iv)    | Others                      | 18         |                 | 2.20           |
|        | <b>Total No.of families</b> | <b>816</b> |                 |                |

### B) Population

| Sex    | Category                  | Number      |            |             | Percentage t<br>total<br>population |
|--------|---------------------------|-------------|------------|-------------|-------------------------------------|
|        |                           | Literate    | Illiterate | Total       |                                     |
| 1.Male | a) Adults (above 35 yrs.) | 470         | 397        | 867         | 20.21                               |
|        | b) Youth (18 to 35 yrs.)  | 698         | 57         | 755         | 17.60                               |
|        | c) Children               | 588         | 0          | 588         | 13.71                               |
|        | <b>Sub To</b>             | <b>1756</b> | <b>454</b> | <b>2210</b> | <b>51.53</b>                        |

|          |                           |             |            |             |              |
|----------|---------------------------|-------------|------------|-------------|--------------|
| 2.Female | a) Adults (above 35 yrs.) | 460         | 389        | 849         | 19.79        |
|          | b) Youth (18 to 35 yrs.)  | 678         | 54         | 732         | 17.07        |
|          | c) Children               | 497         | 0          | 497         | 11.59        |
|          | <b>Sub total</b>          | <b>1635</b> | <b>443</b> | <b>2078</b> | <b>48.46</b> |

|  |                    |             |           |             |  |
|--|--------------------|-------------|-----------|-------------|--|
|  | <b>Grand Total</b> | <b>3391</b> | <b>87</b> | <b>4288</b> |  |
|--|--------------------|-------------|-----------|-------------|--|

116

**Sex ratio(Male: Females) :** Male % \_\_\_1000\_\_\_\_\_, Female \_\_\_868\_\_\_\_\_

**Literacy percentage:** 79.08%

**Level of literacy in village :**

| Sr.No. | Level of Literacy                       | Number      |             | Total Percentage |
|--------|---|-------------|-------------|------------------|
|        |   | Males       | Females     |                  |
| 1      | Illiterate                              | 454         | 443         | 20.91            |
| 2      | Studied upto IV std.                    | 351         | 325         | 15.76            |
| 3      | Studied upto VII std.                   | 361         | 338         | 16.30            |
| 4      | Studied upto X std.                     | 294         | 269         | 13.12            |
| 5      | Studied upto XII std.                   | 422         | 354         | 18.79            |
| 6      | Studied upto degree programme and above | 328         | 319         | 15.08            |
|        | <b>Total</b>                            | <b>2210</b> | <b>2078</b> | <b>99.96%</b>    |

**Educational facilities:**

| Sr. No. | Type of Institute                | No | Distance from Village (km.) |
|---------|----------------------------------|----|-----------------------------|
| a)      | Primary School                   | 1  | 0                           |
| b)      | High School                      | 1  | 3                           |
| c)      | Jr. College                      | 1  | 3                           |
| d)      | College ( Arts, Sci., Commerce ) |    | 12                          |

|    |                            |  |     |
|----|----------------------------|--|-----|
| e) | Others                     |  |     |
|    | i) college of Agriculture  |  | 9km |
|    | ii) college of engineering |  | 9km |

**Medical facilities:**

| Sr. No. | Type                  | Location/ Place | Distance from Village (km.) |
|---------|-----------------------|-----------------|-----------------------------|
| 1       | Primary Health Centre | Sonawadi bk     | 0                           |
| 2       | Government Hospital   | Phaltan         | 12                          |
| 3       | Private Dispensary    | Sonawadi bk     | 0                           |
| 4       | Private Hospital      | Phaltan         | 12                          |

**Drinkingwater facilities:**

| Sr. No. | Source                 | Tick if available<br><input type="checkbox"/> ( ) | Sr. No. | Source | Tick if available<br>(✓) |
|---------|------------------------|---|---------|--------|--------------------------|
| 1       | Filtered Tap water     | Yes   | 3       | Well   | Yes                      |
| 2       | Non-filtered Tap water |   | 4       | Tanks  |                          |

**Marketing Facilities:**

| Sr. No. | Type                       | Available within the village | Nearest place to the village | Distance in (km.) |
|---------|----------------------------|------------------------------|------------------------------|-------------------|
| 1       | Weekly bazaar              | Yes                          |                              |                   |
| 2       | Regulated market           |                              | Yes                          | 12                |
| 3       | Grocery shop               | Yes                          |                              |                   |
| 4       | Vegetable and Fruits stall | Yes                          |                              |                   |
| 5       | Fair price shop            | Yes                          |                              |                   |
| 6       | Other if any               | Yes                          |                              |                   |



**8. Total number of houses**

Pucca Houses : \_\_\_750\_\_\_

Kachcha Houses : \_\_\_299\_\_\_

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

| Class of Livestock |                            |              | Breeds | Numbers |
|--------------------|----------------------------|--------------|--------|---------|
| a)                 | Draft Animals              |              |        |         |
|                    | i) Bullocks                |              | 205    |         |
|                    | ii) He buffaloes           |              | 3      |         |
|                    |                            | <b>Total</b> | 208    |         |
| b)                 | Milch animals              |              |        |         |
|                    | i) Local breed cows        |              | 749    |         |
|                    | ii) Crossbred cows         |              | 303    |         |
|                    | iii) Buffaloes             |              | 348    |         |
|                    |                            | <b>Total</b> | 1400   |         |
| c)                 | Calves (below three years) |              |        |         |
|                    | i) Local breed cows        |              | 300    |         |
|                    | ii) Crossbred cows         |              | 70     |         |
|                    | iii) Buffaloes             |              | 50     |         |
|                    |                            | <b>Total</b> | 420    |         |
| d)                 | Goats                      |              | 1583   |         |
| e)                 | Sheep                      |              | 1061   |         |
| f)                 | Poultry                    |              | 3052   |         |
| i)                 | Others                     |              | -      |         |

**10. Veterinary aid available for livestock**

| <b>Sr. No.</b> | <b>Particulars</b>             | <b>Place/ Location</b> | <b>Distance from Village (km.)</b> |
|----------------|--------------------------------|------------------------|------------------------------------|
| 2              | Artificial Insemination Centre | Phaltan                | 08                                 |
| 3              | Dairy Society                  | Phaltan                | 08                                 |
| 4              | Veterinary Polyclinic          | Phaltan                | 08                                 |

**11. Land Utilization Pattern**

| <b>Sr.No.</b> | <b>Particulars</b>               | <b>Area in ha.</b> |
|---------------|----------------------------------|--------------------|
| 1             | Total Geographical Area          | 2197.02            |
| 2             | Forest Area                      | 300                |
| 3             | Grazing and pasture land         | 675                |
| 4             | Land put to non-agricultural use |                    |
| 5             | Total cultivable area            | 900                |
| 6             | Area under rainfed agriculture   |                    |
| 7             | Area under irrigation            | 900                |
| 8             | Net sown area                    | 900                |
| 9             | Area sown more than once         | 600                |

**12. Source of irrigation**

| <b>Sr.No.</b> | <b>Source</b>    | <b>No.</b> | <b>Area Covered (ha.)</b> |                  |                  |
|---------------|------------------|------------|---------------------------|------------------|------------------|
|               |                  |            | <b>4 monthly</b>          | <b>8 monthly</b> | <b>Perennial</b> |
| 1             | Canal            |            |                           |                  |                  |
| 2             | Wells            | 236        | 150                       | 750              |                  |
| 3             | Government lifts |            |                           |                  |                  |

|   |                    |  |            |  |  |
|---|--------------------|--|------------|--|--|
| 4 | Private lifts      |  |            |  |  |
| 5 | Co-operative lifts |  |            |  |  |
| 6 | Tankers            |  |            |  |  |
| 7 | Other (specify)    |  |            |  |  |
|   | <b>Total</b>       |  | <b>236</b> |  |  |

### 13. Modes of lifting water(Numbers):

i) Electric Motors :236 ii) Drip

units : 65

iii) Other(specify) :

### 14. Structural distribution of land holdings

| Sr.No. | Farm Size (ha) | No. of holdings | Percentage to total | Area (ha.) | Percentage to total |
|--------|----------------|-----------------|---------------------|------------|---------------------|
| 1      | Upto 1.00      | 1100            | 70.51%              | 298        | 13.56%              |
| 2      | 1.01 to 2.00   | 275             | 17.62               | 325        | 14.79%              |
| 3      | 2.01 to 4.00   | 120             | 7.6                 | 275        | 12.51%              |
| 4      | 4.01 to 6.00   | 45              | 2.8                 | 220        | 10.1%               |
| 5      | 6.01 and above | 20              | 1.28                | 160        | 7.28%               |

### 15. Adoption of Modern Agricultural Technology (for any one Major crop)

Identify the Major Crop

Identify and make a list of modern cultivation practices associated with the crop identified.

Prepare adoption table of the identified modern cultivation practices as follows

| Sr. No. | Modern crop cultivation practices  | Adoption | Nonadoption |
|---------|--|----------|-------------|
| 1.      | <b>Use of recommended Preparatory tillage practice:</b><br>1.1 Practice-1<br>1.2 Practice-2 etc. |          |             |
| 2.      | <b>Use of recommended HYV:</b>   |          |             |
| 3.      | <b>Use of recommended doses of chemical fertilizers:</b><br>3.1 dose-1                           |          |             |

|    |   |  |  |
|----|---|--|--|
|    | 3.2 dose-2 etc.   |  |  |
| 4. | <b>Use of recommended doses of Plant protection measures:</b> ji<br>4.1 measure-1<br>4.2 measure-2 etc. |  |  |
| 5. | <b>Any other recommended Practices:</b><br><b>5.1 practice-1</b><br><b>5.2 practice-2 etc.</b>          |  |  |

Contact the farmers and collect the information about adoption or nonadoption of the practices . Assign score of 1 & 0 for adoption and non-adoption respectively and calculate the obtained adoption score' and 'maximum obtainable adoption score' (maximum obtainable adoption score' will be equal to the total number of identified modern agriculture practices, measures etc.) F) Calculate the adoption index by using following formula.

$$\text{Adoption Index} = (\text{obtained Adoption Score} \div \text{Maximum Obtainable Adoption Score}) \times 100$$

## 16. Availability of Agricultural Labourers

| Sr. No. | Type of Labour | Inadequate / Adequate | Wages paid (Rs./Daily) |
|---------|----------------|-----------------------|------------------------|
| 1       | Male           | Adequate              | 400                    |
| 2       | Female         | Adequate              | 200                    |
| 3       | Bullock pairs  | Inadequate            | 1800                   |

## 17. Subsidiary Enterprises

| Sr. No. | Enterprise          |     | No. of families engaged |
|---------|---------------------|-----|-------------------------|
| 1       | Dairy               | 540 |                         |
| 2       | Poultry             | 380 |                         |
| 3       | Sheep /goat rearing | 560 |                         |

|   |                 |  |  |
|---|-----------------|--|--|
| 4 | Agro tourism    |  |  |
| 5 | Sericulture     |  |  |
| 6 | Apiculture      |  |  |
| 7 | Other (specify) |  |  |

### 18. Other Institutions in the village

| Sr.No. | Institute              | Yes / No |
|--------|------------------------|----------|
| 1      | Grampanchayat          | Yes      |
| 2      | Service Co-op. Society | Yes      |
| 3      | Dairy Co-op. Society   | No       |
| 4      | Post Office            | No       |
| 5      | Bank                   | No       |
| 6      | Library                | Yes      |
| 7      | Self Help Group (SHG)  | Yes      |
| 8      | Others (specify)       |          |

### 19. Farm machinery and equipments

| Sr. No. | Machinery / Equipment     |     | Number |
|---------|---------------------------|-----|--------|
| 1       | Tractor                   | 68  |        |
| 2       | Power Tillers             | 4   |        |
| 3       | Power Sprayer / Duster    | 75  |        |
| 4       | Sprayers                  | 350 |        |
| 5       | Dusters                   | 1   |        |
| 6       | Threshers                 | 15  |        |
| 7       | JCB / Dozers              | 2   |        |
| 8       | Drip Irrigation Sets      | 65  |        |
| 9       | Sprinkler Irrigation Sets | 2   |        |
| 10      | Others (specify)          |     |        |

**20. 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  | ✓          |                        |                | ✓            |            |

**21. Availability of Consultancy services to farmers**

| Sr. No. | Consultancy services            | Available  |                        | Distance (km.) |
|---------|---------------------------------|------------|------------------------|----------------|
|         |                                 | in Village | at the nearest Village |                |
| 1       | Plant protection                |            | ×                      |                |
| 2       | Nutrient Management             |            | ✓                      | 4 km           |
| 3       | Hi-Tech Agriculture Consultancy |            | ×                      |                |
| 4       | Dairy Consultancy               |            | ✓                      | 4 km           |
| 5       | Goat Farming Service            |            | ×                      |                |
| 6       | Poultry Farming                 |            | ×                      |                |
| 7       | Fish Farming                    |            | ×                      |                |
| 8       | Farm Development                |            | ×                      |                |
| 9       | Processing and Value addition   |            | ×                      |                |
| 10      | Others (if any)                 |            |                        |                |

**22 .Extension programmes organized in the village including development programmes**

| Sr.No. | Programme                | Implementing Agency                 |
|--------|--------------------------|-------------------------------------|
| 1      | Krushni sanjivani saptah | Dept. Of Agriculture, MH Government |
| 2      | Sheti shala              | Dept. Of Agriculture, MH Government |
|        |                          |                                     |

**23. Self-help Groups in village**

Total self-help groups in village : 1  
 Name of S. H.G. you have studied :- Kamdhenu mahila  
 bachat gat, dudhebavi  
 Year of establishment : 2018  
 Total number of members Female : 20  
 Name of the Bank affiliate : Satara district Central Co-operative bank  
 Total amount deposited per month : 100 rs  
 Total amount of loan received : Rs 20000  
 Total capital balance :  
 Activities carried out by S.H.G. :

| Sr. No. | Name of Activities | Number of beneficiaries |
|---------|--------------------|-------------------------|
| i.      | Pickle making      | 515                     |
| ii.     | Papad making       | 420                     |

### Problem faced by S.H.G.

#### Agriculture related enterprises in the villages

| Sr. No. | Name enterprises      | Number |
|---------|-----------------------|--------|
|         | Poultry unit          | 5      |
|         | Goat Farm             | 12     |
|         | Milk Processing plant | 1      |

### Problems faced by villagers/Leaders:-

No any major problems faced by the villagers but the the health facilities is not available in this village, the health facilities is available at the 4 km long from this village, in the Phaltan.

### Comments/general observation of student:-

The overall village is good. Most of the peoples are engaged in their Specially young farmers are carried a some new improved practice in there farms.

## COMMENTS ON TECHNO-SOCIAL SURVEY OF VILLAGE

### INTRODUCTION:-

In RAWE programme 2020-2021 I have allotted Dudhebavi village. I have conducted techno-social survey of my village. Which is 10 km away from taluka place i.e. Phaltan. I collected information about village and various peoples inclined with the village people. Various comments on the points are as follows:-

### **TRANSPORT AND COMMUNICATION:-**

Bus station is available near to the village. Railway station is not available in the village, it is at 15 km from village at Phaltan. Post office is present in nearby village. The Road condition in village is good.

### **POPULATION OF VILLAGE:-**

#### **Classification of families:-**

In my RAWE village there are 450 families 390 in that are agriculture, 30 are landless labours, 20 are village artisans and 10 are other.

#### **POPULATION:-**

The Total population of village is about 3391 in which 1756 male peoples are literate and 1625 females are literate.

### **EDUCATION FACILITIES:-**

- . Primary School is available in village. 2 High School available near to the village at 3 km and 4 km. 1 Jr. College available near to the village at 2 km.

### **MEDICAL FACILITIES:-**

Government dispensary, primary health centre are not available in the village, it is available at Phaltan 10km from village.

### **DRINKING WATER FACILITIES:-**

In the village drinking water facilities are well, tanks, and tap water.

### **MARKETING FACILITIES:-**

There are only Glossary shop and fair price shop available in the village. The weekly bazar, vegetables and fruit stalls are available at Phaltan.

### **TOTAL NO. OF HOUSES:-**

750 Pucca houses and 299 kaccha houses are present in the Sonawadi bk. village.

### **LIVESTOCK POPULATION:-**

The total no. 208 are draft animals, 1400 are milch animals, 420 are calves, 1583 goats, 1061 sheeps, 3052 poultry.



**VETERINARY AIDS AVAILABLE FOR LIVESTOCKS:-**

Government Veterinary dispensary not available in the village, private veterinary doctor are available in the village.

**LAND UTILIZATION PATTERN:-**

The village having total geo-graphical area is about 2197.09 ha. In which Forest Area area is 300ha, Grazing and pasture land is about 75 ha, Land put to non-agricultural use 13 ha, Total cultivable area is 900a ha in which Area under r , Area under irrigation 900 ha.

**SOURCE OF IRRIGATION:-**

The source of irrigation to the farm land is by Wells, total 236 wells available in the village..

**MODES OF IRRIGATIONS:-**

There are 236 Electric Motors and 65 Drip unit present in the village.

**STRUCTURAL DISTRIBUTION OF LAND HOLDINGS:-**

There are 13.56 % peoples holdings the Upto 1.00 ha land, There are 14.79% peoples holdings the 1.01 to 2.00 ha land, There are 12.51 % peoples holdings the 2.01 to 4.0 ha land, There are 10.1% peoples holdings the 4.00 to 6.00 ha land, There are 7.28 % peoples holdings the 6.01ha and above land.

**AVAILABILITY OF AGRICULTURAL LABOURS:-**

There are adequate male labours and adequate female labours, they take 400 Rs and 200 Rs respectively per day.

**SUBSIDERY ENTERPRISES:-**

In this Sonawadi bk village, 540 families are engaged in Dairy, 360 families are engaged in poultry, 560 families are engaged in sheep and goat rearing.

**INSTITUTIONS IN THE VILLAGE:-**

There are Grampanchayat, Service Co-op. Society, Post Office, Library, Self Help Group (SHG), Bhajani mandal etc. are available in this village.

**FARM MACHINERY AND EQUIPMENTS:-**

In Dudhebavi village, Tractors-68, Power Tillers-4, Power Sprayer / Duster-75, Sprayers-350, Dusters-1, Threshers-15, JCB / Dozers-2, Drip Irrigation Sets-65, Sprinkler Irrigation Sets-2 Available in the village.

**AVAILABILITY OF INPUTS:-**

All required inputs for agriculture like, seeds, fertilizers, pesticides, fungicides, implements etc are available in the village and near to the village.

**Availability of Consultancy services to farmers:-**

The consultancy services are available near to the village.

**Extension programmes organized in the village including development programmes:-**

Sheti shala      Are organised by Dept. Of Agriculture, MH Government.

**SELF-HELP GROUPS IN THE VILLAGE:-**

Total self-help groups in village-1, Name of S. H.G- Kamdhenu mahila bachat gat,Dudhebavi ., Year of establishment -2018,Total number of members-Female-20, Pickle making and Papad making is carried out by the SHG.

**Agriculture related enterprises in the villages:-**

In the village 5 Poultry unit, 12 Goat Farm and 1 Milk Processing plant are present.

## RAWE Extension Schedules

### Schedule No.3:

#### Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural 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 by the farmers for obtaining required information e.g. production technologies, weather and climate, plant protection, post- harvest management, marketing of agro produce etc. 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 influencing farm management practices. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

#### Survey of Farmer - 1

Name of the Farmer:...Mr. Bhanudas Natha Nale.  
 Address: A/p Dudhebavi Tal. Phaltan Dist .Satara .  
 What's App No.: 9975078853  
 E-mail id.: bhanudasnale@gmail.com  
 Educational qualification: 11<sup>th</sup>  
 Land holding: 2Ha.  
 Crops grown: Maize , Red gram, Pomogranate , Brinjal.  
 Experience in Farming: 20 years

Frequency of using Internet/ Mobile apps (Tick mark in relevant column)

| Sr. No. | Particular              | Daily | Weekly | Fortnightly | Monthly |
|---------|-------------------------|-------|--------|-------------|---------|
| 1       | E mail                  |       |        |             | ✓       |
| 2       | Social media like FB/WA | ✓     |        |             |         |

|    |                                 |   |   |  |   |
|----|---------------------------------|---|---|--|---|
| 3  | YouTube videos                  | ✓ |   |  |   |
| 4  | Kisan Suvidha                   |   | ✓ |  |   |
| 5  | Plantix                         |   |   |  |   |
| 6  | Crop Info India                 |   |   |  | ✓ |
| 7  | e-Newspaper (Agrowon)           | ✓ |   |  |   |
| 8  | e-Krishidarshani                | ✓ |   |  |   |
| 9  | Phule Jal/ Irrigation Scheduler |   |   |  |   |
| 10 | Other online sources            |   |   |  |   |
|    | a.                              |   |   |  |   |
|    | b.                              |   |   |  |   |
|    | c.                              |   |   |  |   |

Are you member of Whats app group related to agriculture? Yes/ No - **No**

(If yes, give details )

| Sr. No. | Name of Whats app group | Name of Admin / Institute | No. of members | Nature/ Purpose of information received |
|---------|-------------------------|---------------------------|----------------|---|
| 1       |                         |                           |                |   |
| 2       |                         |                           |                |   |
| 3       |                         |                           |                |   |
| 4       |                         |                           |                |   |

Are you member of Facebook group related to agriculture? Yes/ No (If yes, give details ) -**No**.

| Sr. No. | Name of FB group | No. of members | Nature/ Purpose of information received |
|---------|------------------|----------------|---|
| 1       |                  |                |   |
| 2       |                  |                |   |
| 3       |                  |                |   |
| 4       |                  |                |   |

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

| Sr. No. | Name of App | Name of Organization                      | Purpose of App   | Nature of information received |
|---------|-------------|---|--|--------------------------------|
| 1       | Krushik     | Agricultural development trust, Baramati. | To provide daily news related agriculture , to provide detail information of crop, livestock ,etc. | Online and offline             |
| 2       | Pashu mandi | PDFA ,Punjab                              | It provide information about livestock and its   | Online                         |

|   |  |  |                     |  |
|---|--|--|---------------------|--|
|   |  |  | buying and selling. |  |
| 3 |  |  |                     |  |
| 4 |  |  |                     |  |

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 of information received |
|---------|------------------------|----------------------|-----------------------------|--------------------------------|
| 1       | www.coekvkbaramati.com | KVK ,Baramati        | For crop information        | Online mode                    |
| 2       |                        |                      |                             |                                |
| 3       |                        |                      |                             |                                |
| 4       |                        |                      |                             |                                |

Do you watch videos on YouTube channel? Yes/ No (If yes, give details)

| Sr. No. | Name of you tube channel subscribed | Name of host/ owner | Number of subscribers | Nature/ Purpose of information received        |
|---------|-------------------------------------|---------------------|-----------------------|--|
| 1       | Bharat agri                         | Siddharth Dailani   | 4.34 k                | Provide information about weather data crops . |
| 2       |                                     |                     |                       |  |
| 3       |                                     |                     |                       |  |
| 4       |                                     |                     |                       |  |

Do you read ePapers/eMagazines/ eBooks/Internet blogs? Yes/ No (If yes, give details)

Names of e-Papers/e-Magazines/ e-Books/Internet blog

e-Paper i.e Agrowon

This app of e-Paper give information about daily news .

.....  
 .....

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 program            | Name of expert/s involved | Nature of information received |
|---------|----------------------|---------------------------------|---------------------------|--------------------------------|
| 1       | KVK, Baramati        | Incidence of bollworm on cotton | Entomologist              | Online                         |
| 2       |                      |                                 |                           |                                |
| 3       |                      |                                 |                           |                                |

|   |  |  |  |  |
|---|--|--|--|--|
| 4 |  |  |  |  |
|---|--|--|--|--|

Do you face any problem during use of Internet or Apps? Yes , There are range problem during use of internet.

Is there any suggestion for overcoming problems or improvement in information provided? No.

.....

.....

Comments of students:

Farmer is well educated hence he has knowledge about how to increase yield using different internet apps.

.....

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## Survey of Farmer -2

### Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural 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 by the farmers for obtaining required information e.g. production technologies, weather and climate, plant protection, post- harvest management, marketing of agro produce etc. 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 influencing farm management practices. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

Name of the Farmer :- Mr.Suresh Natha Nale.  
 Address: A/p- Dudhebavi ,Phaltan  
 What's App No.: 9922642826  
 E-mail id.:  
 Educational qualification: 12<sup>th</sup>  
 Land holding: 3 Ha.  
 Crops grown: pomegranate, Tomato, Brinjal  
 Experience in Farming: 13 years

Frequency of using Internet/ Mobile apps (Tick mark in relevant column)

| Sr. No. | Particular                      | Daily | Weekly | Fortnightly | Monthly |
|---------|---------------------------------|-------|--------|-------------|---------|
| 1       | E mail                          |       |        |             |         |
| 2       | Social media like FB/WA         | ✓     |        |             |         |
| 3       | YouTube videos                  |       | ✓      |             |         |
| 4       | Kisan Suvidha                   |       |        | ✓           |         |
| 5       | Plantix                         |       |        |             |         |
| 6       | Crop Info India                 |       |        |             |         |
| 7       | e-Newspaper (Agrowon)           | ✓     |        |             |         |
| 8       | e-Krishidarshani                |       |        | ✓           |         |
| 9       | Phule Jal/ Irrigation Scheduler |       |        |             |         |
| 10      | Other online sources            |       |        |             |         |
|         | a.                              |       |        |             |         |
|         | b.                              |       |        |             |         |
|         | c.                              |       |        |             |         |

Are you member of Whats app group related to agriculture? Yes/ No

**NO**

*(If yes, give details )*

| Sr. No. | Name of Whats app group | Name of Admin / Institute | No. of members | Nature/ Purpose of information received |
|---------|-------------------------|---------------------------|----------------|---|
| 1       |                         |                           |                |   |
| 2       |                         |                           |                |   |
| 3       |                         |                           |                |   |
| 4       |                         |                           |                |   |

Are you member of Facebook group related to agriculture? Yes/ No *(If yes, give details )* **No**

| Sr. No. | Name of FB group | No. of members | Nature/ Purpose of information received |
|---------|------------------|----------------|---|
| 1       |                  |                |   |
| 2       |                  |                |   |
| 3       |                  |                |   |
| 4       |                  |                |   |

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

| Sr. No. | Name of App | Name of Organization | Purpose of App | Nature of information received |
|---------|-------------|----------------------|----------------|--------------------------------|
| 1       | Krushik     | Agricultural         | To provide     | Online and offline             |

|   |                |                                |  |        |
|---|----------------|--------------------------------|--|--------|
|   |                | development trust<br>,Baramati | information about<br>crop detail livestock<br>and weather data   |        |
| 2 | Krishidarshani | MPKV Rahuri                    | Provide detail<br>information about<br>crop its income<br>increase live<br>stock rearing other<br>activities in<br>agriculture | Online |
| 3 |                |                                |  |        |
| 4 |                |                                |  |        |

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

| Sr. No. | Web address | Name of Organization | Purpose of visiting website | Nature of information received |
|---------|-------------|----------------------|-----------------------------|--------------------------------|
| 1       |             |                      |                             |                                |
| 2       |             |                      |                             |                                |
| 3       |             |                      |                             |                                |
| 4       |             |                      |                             |                                |

Do you watch videos on YouTube channel? Yes/ No (If yes, give details) **NO**

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

Do you read ePapers/eMagazines/ eBooks/Internet blogs? Yes/ No (If yes, give details)

Names of e-Papers/e-Magazines/ e-Books/Internet blogs

Yes , Agrowon e paper read daily .this paper provide daily news of agriculture information .

.....

Have you participated in online training/ webinar organized by SAUs/KVKs or any other agriculture related organizations? **No**

| Sr. No. | Name of organization | Topic of the program | Name of expert/s involved | Nature of information received |
|---------|----------------------|----------------------|---------------------------|--------------------------------|
|         |                      |                      |                           |                                |



|   |  |  |  |  |
|---|--|--|--|--|
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |

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

No there is no any range or network problem

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

No

**Comments of students:**

Farmer has medium knowledge about internet source .but. He use e-paper and other agricultural app on mobile by using net source.

### **Survey of Farmer -3**

#### **Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural 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 by the farmers for obtaining required information e.g. production technologies, weather and climate, plant protection, post- harvest management, marketing of agro produce etc. 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 influencing farm management practices. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

Name of the Farmer :- Mr.Mahesh Vishnu Nale.

Address: A/p- Dudhebavi ,Phaltan

What's App No.: 9763638720

E-mail id.:

Educational qualification: 10th

Land holding: 3 acre

Crops grown: Maize ,mango, guava.

Experience in Farming: 20 years

Frequency of using Internet/ Mobile apps (Tick mark in relevant column)

| Sr. No. | Particular                      | Daily | Weekly | Fortnightly | Monthly |
|---------|---------------------------------|-------|--------|-------------|---------|
| 1       | E mail                          |       |        |             |         |
| 2       | Social media like FB/WA         | ✓     |        |             |         |
| 3       | YouTube videos                  |       | ✓      |             |         |
| 4       | Kisan Suvidha                   |       |        | ✓           |         |
| 5       | Plantix                         |       |        |             |         |
| 6       | Crop Info India                 |       |        |             |         |
| 7       | e-Newspaper (Agrowon)           | ✓     |        |             |         |
| 8       | <i>e-Krishidarshani</i>         |       |        | ✓           |         |
| 9       | Phule Jal/ Irrigation Scheduler |       |        |             |         |
| 10      | Other online sources            |       |        |             |         |
|         | a.                              |       |        |             |         |
|         | b.                              |       |        |             |         |
|         | c.                              |       |        |             |         |

Are you member of Whats app group related to agriculture? Yes/ No

**Yes**

*(If yes, give details )*

| Sr. No. | Name of Whats app group | Name of Admin / Institute | No. of members | Nature/ Purpose of information received |
|---------|-------------------------|---------------------------|----------------|---|
| 1       | Krushi farmers          | Mr.Dyanand Nimbalkar      | 95             | Online                                  |
| 2       |                         |                           |                |   |
| 3       |                         |                           |                |   |
| 4       |                         |                           |                |   |

Are you member of Facebook group related to agriculture? Yes/ No *(If yes, give details )* **No**

| Sr. No. | Name of FB group | No. of members | Nature/ Purpose of information received |
|---------|------------------|----------------|---|
| 1       |                  |                |   |
| 2       |                  |                |   |
| 3       |                  |                |   |
| 4       |                  |                |   |

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

| Sr. No. | Name of App    | Name of Organization                     | Purpose of App   | Nature of information received |
|---------|----------------|--|--|--------------------------------|
| 1       | Krushik        | Agricultural development trust ,Baramati | To provide information about crop detail livestock and weather data  | Online and offline             |
| 2       | Krishidarshani | MPKV ,RAHURI                             | Provide information on crop ,livestock ,poultry and other activities | Online and offline.            |
| 3       |                |  |  |                                |
| 4       |                |  |  |                                |

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

| Sr. No. | Web address | Name of Organization | Purpose of visiting website | Nature of information received |
|---------|-------------|----------------------|-----------------------------|--------------------------------|
| 1       |             |                      |                             |                                |
| 2       |             |                      |                             |                                |
| 3       |             |                      |                             |                                |
| 4       |             |                      |                             |                                |

Do you watch videos on YouTube channel? Yes/ No (If yes, give details) **NO**

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

Do you read ePapers/eMagazines/ eBooks/Internet blogs? Yes/ No (If yes, give details)

Names of e-Papers/e-Magazines/ e-Books/Internet blogs

Yes , Agrowon e paper read daily .this paper provide daily news of agriculture information .

.....

Have you participated in online training/ webinar organized by SAUs/KVKs or any other agriculture related organizations? **No**

| Sr. No. | Name of organization | Topic of the program | Name of expert/s involved | Nature of information received |
|---------|----------------------|----------------------|---------------------------|--------------------------------|
| 1       |                      |                      |                           |                                |
| 2       |                      |                      |                           |                                |
| 3       |                      |                      |                           |                                |
| 4       |                      |                      |                           |                                |

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

No there is no any range or network problem

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

No

**Comments of students:**

Farmer has knowledge about internet source .but. He use e-paper and other agricultural app on mobile by using net source.

### **Survey of Farmer -4**

#### **Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural 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 by the farmers for obtaining required information e.g. production technologies, weather and climate, plant protection, post- harvest management, marketing of agro produce etc. 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 influencing farm management practices. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

Name of the Farmer :- Mr. Chandrakant genaba nale.

Address: A/p- Dudhebavi ,Phaltan

What's App No.: 9667779020

E-mail id.:

Educational qualification: 9<sup>th</sup>

Land holding: 3 acre

Crops grown: Maize ,pomegranate, guava

Experience in Farming: 15 years

**Frequency of using Internet/ Mobile apps (Tick mark in relevant column)**

| Sr. No. | Particular                      | Daily | Weekly | Fortnightly | Monthly |
|---------|---------------------------------|-------|--------|-------------|---------|
| 1       | E mail                          |       |        |             |         |
| 2       | Social media like FB/WA         | ✓     |        |             |         |
| 3       | YouTube videos                  |       | ✓      |             |         |
| 4       | Kisan Suvidha                   |       |        | ✓           |         |
| 5       | Plantix                         |       |        |             |         |
| 6       | Crop Info India                 |       |        |             |         |
| 7       | e-Newspaper (Agrowon)           | ✓     |        |             |         |
| 8       | <i>e-Krishidarshani</i>         |       |        | ✓           |         |
| 9       | Phule Jal/ Irrigation Scheduler |       |        |             |         |
| 10      | Other online sources            |       |        |             |         |
|         | a.                              |       |        |             |         |
|         | b.                              |       |        |             |         |
|         | c.                              |       |        |             |         |

Are you member of Whats app group related to agriculture? Yes/ No

**Yes**

*(If yes, give details )*

| Sr. No. | Name of Whats app group | Name of Admin / Institute | No. of members | Nature/ Purpose of information received |
|---------|-------------------------|---------------------------|----------------|---|
| 1       | Krushi farmers          | Mr.Dyanand Nimbalkar      | 95             | Online                                  |
| 2       |                         |                           |                |   |
| 3       |                         |                           |                |   |
| 4       |                         |                           |                |   |

Are you member of Facebook group related to agriculture? Yes/ No *(If yes, give details )* **No**

| Sr. No. | Name of FB group | No. of members | Nature/ Purpose of information received |
|---------|------------------|----------------|---|
| 1       |                  |                |   |
| 2       |                  |                |   |
| 3       |                  |                |   |
| 4       |                  |                |   |

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

| Sr. No. | Name of App    | Name of Organization                     | Purpose of App   | Nature of information received |
|---------|----------------|--|--|--------------------------------|
| 1       | Krushik        | Agricultural development trust ,Baramati | To provide information about crop detail livestock and weather data  | Online and offline             |
| 2       | Krishidarshani | MPKV ,RAHURI                             | Provide information on crop ,livestock ,poultry and other activities | Online and offline.            |
| 3       |                |  |  |                                |
| 4       |                |  |  |                                |

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

| Sr. No. | Web address | Name of Organization | Purpose of visiting website | Nature of information received |
|---------|-------------|----------------------|-----------------------------|--------------------------------|
| 1       |             |                      |                             |                                |
| 2       |             |                      |                             |                                |
| 3       |             |                      |                             |                                |
| 4       |             |                      |                             |                                |

Do you watch videos on YouTube channel? Yes/ No (If yes, give details) **NO**

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

Do you read ePapers/eMagazines/ eBooks/Internet blogs? Yes/ No (If yes, give details)

Names of e-Papers/e-Magazines/ e-Books/Internet blogs

Yes , Agrowon e paper read daily .this paper provide daily news of agriculture information .

.....

Have you participated in online training/ webinar organized by SAUs/KVKs or any other agriculture related organizations? **No**

| Sr. No. | Name of organization | Topic of the program | Name of expert/s involved | Nature of information received |
|---------|----------------------|----------------------|---------------------------|--------------------------------|
| 1       |                      |                      |                           |                                |
| 2       |                      |                      |                           |                                |
| 3       |                      |                      |                           |                                |
| 4       |                      |                      |                           |                                |

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

No there is no any range or network problem

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

No

**Comments of students:**

Farmer has knowledge about internet source .but. He use e-paper and other agricultural app on mobile by using net source.

## Survey of Farmer -5

### Survey on Utilization of Internet and Mobile Applications by the farmers for Agricultural 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 by the farmers for obtaining required information e.g. production technologies, weather and climate, plant protection, post- harvest management, marketing of agro produce etc. 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 influencing farm management practices. Each student shall contact at least 20 farmers from allotted village and obtain information on following points.

Name of the Farmer :- Mr. Baburao Jotiram

Address: A/P Dudhebavi ,Phaltan

What's App No.: 8767078741

E-mail id.:

Educational qualification: 11<sup>th</sup>

Land holding: 3 acre

Crops grown: sugarcane ,Guava ,Maize, pomegranate, mango, Bajara

Experience in Farming: 20 years

**Frequency of using Internet/ Mobile apps (Tick mark in relevant column)**

| Sr. No. | Particular                      | Daily | Weekly | Fortnightly | Monthly |
|---------|---------------------------------|-------|--------|-------------|---------|
| 1       | E mail                          |       |        |             |         |
| 2       | Social media like FB/WA         | ✓     |        |             |         |
| 3       | YouTube videos                  |       |        |             |         |
| 4       | Kisan Suvidha                   |       |        | ✓           |         |
| 5       | Plantix                         |       |        |             |         |
| 6       | Crop Info India                 |       |        |             |         |
| 7       | e-Newspaper (Agrowon)           | ✓     |        |             |         |
| 8       | <i>e-Krishidarshani</i>         |       |        | ✓           |         |
| 9       | Phule Jal/ Irrigation Scheduler |       |        |             |         |
| 10      | Other online sources            |       |        |             |         |
|         | a.                              |       |        |             |         |
|         | b.                              |       |        |             |         |
|         | c.                              |       |        |             |         |

Are you member of Whats app group related to agriculture? Yes/ No

**NO**

*(If yes, give details )*

| Sr. No. | Name of Whats app group | Name of Admin / Institute | No. of members | Nature/ Purpose of information received |
|---------|-------------------------|---------------------------|----------------|---|
| 1       |                         |                           |                |   |
| 2       |                         |                           |                |   |
| 3       |                         |                           |                |   |
| 4       |                         |                           |                |   |

Are you member of Facebook group related to agriculture? Yes/ No *(If yes, give details )* **No**

| Sr. No. | Name of FB group | No. of members | Nature/ Purpose of information received |
|---------|------------------|----------------|---|
| 1       |                  |                |   |
| 2       |                  |                |   |
| 3       |                  |                |   |
| 4       |                  |                |   |

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



| Sr. No. | Name of App | Name of Organization                  | Purpose of App  | Nature of information received |
|---------|-------------|---------------------------------------|---|--------------------------------|
| 1       | Agrowon     | Agri publication by Sakal media group | Provide daily news crop information livestock information | Online                         |
| 2       |             |                                       |   |                                |
| 3       |             |                                       |   |                                |
| 4       |             |                                       |   |                                |

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

| Sr. No. | Web address | Name of Organization | Purpose of visiting website | Nature of information received |
|---------|-------------|----------------------|-----------------------------|--------------------------------|
| 1       |             |                      |                             |                                |
| 2       |             |                      |                             |                                |
| 3       |             |                      |                             |                                |
| 4       |             |                      |                             |                                |

Do you watch videos on YouTube channel? Yes/ No (If yes, give details) **NO**

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

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| Sr. No. | Name of organization | Topic of the program | Name of expert/s involved | Nature of information received |
|---------|----------------------|----------------------|---------------------------|--------------------------------|
| 1       |                      |                      |                           |                                |

|   |  |  |  |  |
|---|--|--|--|--|
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |

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

No there is no any range or network problem

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

No

**Comments of students:**

Farmer has less knowledge about internet source .but. He use e-paper and other agricultural app on mobile by using net source.

# College of Agriculture, Phaltan

## Demonstration No.-1



**Organization of need based training class. (Basundi)**

# DEMONSTRATION NO.: 1

## Organization of need based training class(Basundi)

**Name of student:** - Nale Sameer Bhanudas.

**Registration No:** - CAP-2017/86

**Name of College:** - College of Agriculture, Phaltan.

**Name of Center:** - College of Agriculture, Phaltan.

**Date of Demonstration:** - 18/08/2020.

**Time of Demonstration:** - 11 AM.

**Venue of Demonstration:** - At the home of Mr. Bhanudas Nale.

At post: - Dudhebavi.

**Number of women's participated:** - 8

**Teaching aids used:** -

c. Practical manual of AHDS - 353 Technology of milk and Milk products.

d. Guidance of subject matter specialist.

### **Material used -**

1. Milk (cow) - 2 lit.
2. Sugar - 300 gm.
3. Cardamom - 10 gm.
4. Cashew nut and almond - 10 gm.
5. Saffron - 50 mg.
6. Utensil vessel.
7. Big size spoon.

### **Introduction: -**

1. **Definition of Basundi: -**

“Basundi is a heat desiccated, thickened milk dessert, having white to light caramel color, creamy consistency with soft textured of laves that are uniformly suspended throughout the product matrix.”

1. Basundi is another sweet meat largely produced in the Maharashtra and Gujarat.
2. Basundi has sweetish caramel Aroma.
3. Basundi is consumed directly as desert it contain all the solids of milk in an appropriate two fold concentration plus additional sugar with high food and nutritive value.
4. Basundi is garnished with spices nuts and condiments.

### **Chemical composition of Basundi: -**

| Sr. No. | Constituents | Average value (%) |
|---------|--------------|-------------------|
| 1       | Moisture     | 52.6              |
| 2       | Fat          | 11.6              |
| 3       | Protein      | 9.6               |
| 4       | Lactose      | 11.5              |

|   |         |      |
|---|---------|------|
| 5 | Ash     | 1.7  |
| 6 | Sucrose | 12.7 |

## **Objectives -**

1. To study the preparation of Basundi.
2. To increase the value of milk.
3. To gain economic stability in case of glut of milk by preparing value-added milk product Basundi.
4. To prepare partially desiccated sweet and milk (Basundi) for direct consumption.
5. To evaluate its quality.

## **Planning -**

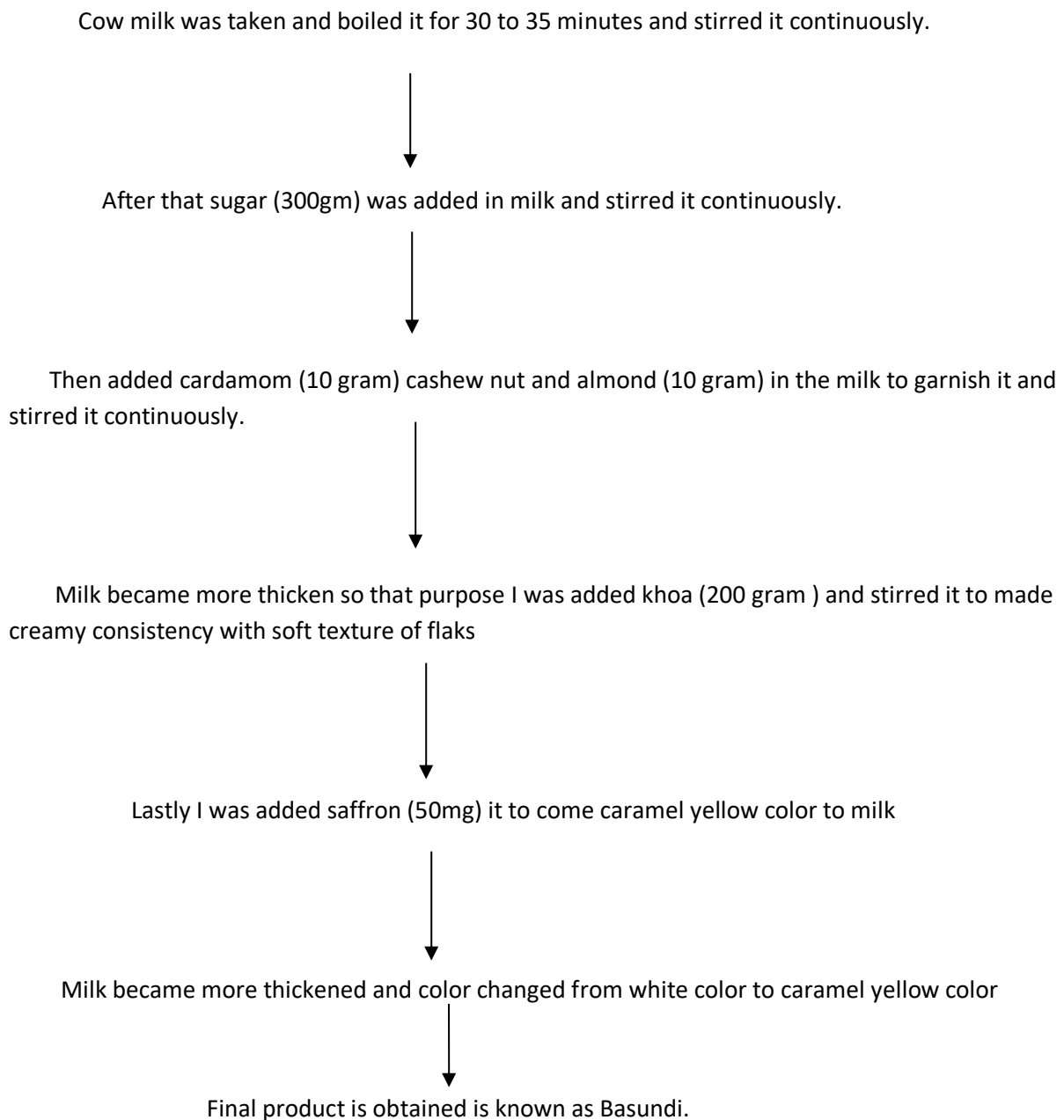
8. I collected the information regarding preparation of Basundi.
9. After discussion with concern teacher I collected all the required material for preparation of Basundi.
10. After that I decided date time place.
11. Also I gave information about demonstration to all women's in village.

## **Conduction: -**

- 4 First I give information about Basundi preparation, its procedure and its market value to all women's.
- 5 Then I collected cow milk (2 litres) for preparation of Basundi.
- 6 After that I was heated the milk for 30 to 35 minutes until it thickened.
- 7 After 30 minutes I added sugar (300gm) in milk and stirred it continuously
- 8 Then I added cardamom (10 gram) cashew nut and almond (10 gram) in the milk

- 9 For become more thicken I was added khoa (200gm) in milk and stirred it continuously to make creamy consistency with soft textured and flakes
- 10 And lastly I added saffron (50mg) cooking caramel color.
- 11 Color changed from white to caramel yellow color and Basundi is ready to serve.
- 12 Final product Basundi is obtained.

### **Flowchart -**



### **Precautions: -**

5. Take care while boiling the milk during heat concentration.
6. Select milk of good quality having fat and SNF ratio is 0:5:1:0.
7. Use all material of fresh quality.
8. Wash the vessels before conduction.

### **Observations: -**

- 5 Quantity of milk used: - 2 lit (Cow milk).
- 6 Quantity of Basundi obtained: - 1 lit.
- 7 Weight of sugar: - 300 gm.
- 8 Quantity of cardamom: - 10 gm.
- 9 Quantity of Almond and cashew nut: - 10 gm.
- 10 Quantity of Khoa: - 200 gm.

### **Calculation: -**

- a. Milk cost = 2 lit =  $2 \times 25$  Rs = 50 Rs.
- b. Almond, Cardamom and cashew nut = 10 Rs.
- c. Khoa (200 gm) = 40 Rs.
- d. Sugar = 10 Rs.

$$\text{Cost} = 50 + 10 + 10 + 40.$$

$$= 110 \text{ Rs.}$$

### **Calculation of percent recovery B: C ratio**

$$\text{Benefit} = \text{Price} - \text{Cost.}$$

$$= 290 - 110.$$

$$\text{Benefit} = 180 \text{ Rs.}$$

$$\text{B: C ratio} = \text{Benefit} \div \text{Cost.}$$

$$= 180 \div 110.$$

$$= 1.97.$$

$$\text{i.e.} = 2.$$



**B: C ratio is more than 1 hence product is profitable.**

### **Judging quality of the product: -**

- ✓ Color: - Yellow caramel color.
- ✓ Body and texture: - Soft textured flacks.
- ✓ Flavor: - Pleasant and aromatic.
- ✓ Taste: - Sweet.

### **Questions asked by women's: -**

**A) Which milk is most suitable for preparation of Basundi?**

Ans: - Buffalo milk.

**B) How much quantity of sugar should be added in Basundi?**

Ans: - 300 gram.

**C) To prepare Basundi, why milk is continuously stirred?**

Ans: - To make thicken consistency and avoiding milk burning there is need to stir milk continuously during preparation of Basundi.

**D) What is the price of Basundi in market (Sweet home)?**

Ans: - 500 gm Basundi = 290 Rs.

**E) Which ingredients are added in Basundi?**

Ans: - Cardamom, Cashew nut, Almond, Saffron, etc.

### **Woman's feedback: -**

- A) They got practical knowledge of Basundi preparation and also got knowledge about precautions which should be taken during preparation of Basundi.
- B) All women are aware from this demonstration and told me that they become satisfied by my demonstration.
- c) Women's gave good support during demonstration.

**Student comments: -**

1. Many women have participated in my demonstration.
2. I gained actual practical knowledge of preparation of Basundi.
3. Women have asked questions regarding the demonstration and I gave them satisfactory answers to their questions.

**Follow up: -**

4. According to planning I have conducted the demonstration on preparation of Basundi.
5. In that I told women about how to prepare Basundi at home in low cost.
6. Finally I kept all the records such as number of women participated and their questions.

# College of Agriculture, Phaltan

## Demonstration no. - 2



**Knowledge and Utilization of apps in seeking information about production technology of horticultural crops.**

**Name-** Nale Sameer Bhanudas.

**Reg. No.-** CAP-2017/86

**Date-** 22/08/20

**Place-** Nursery of host farmer Mr. Bhanudas Nale

**No. Of Farmers Participated-** 15

- **Material:**

1. Laptop
2. Chart showing all the apps and it's function

- **Teaching Aids:**

1. Internet
2. Chart

- **Introduction:**

Nowadays horticultural stakeholders have to manage heterogeneous & complex information ranging from cultivation techniques to product price this study investigates the potential of mobile apps to support

them by providing access to information, market and services.

Farmers are Using this app to find out the market price Of commodities, weather etc.

## **1. GARDEN ANSWERS**

One of the most useful tools for any gardener is a plant identifier, helping you become a walking encyclopedia of all British garden plant species. Garden Answers is an easy-to-use and incredibly popular identification app that can instantly define over 20,000 plants, coming with some very useful information. Take a snap of the plant you want to identify, press 'submit' and you'll have the answer.

Garden Answers – available on iOS and Android

## **2. SMARTPLANT**

Not only does the SmartPlant app help you identify plants but also provides a 'Digital Care Calendar' to reveal everything your garden, and the plants within it, need. You can personalise the app by adding the specific plants you have in your garden and the app will notify you of their requirements.

SmartPlant – available on iOS and Android

### **3. GARDENING COMPANION**

The Gardening Companion app can help you track your garden's progress, care for your plants and access a wealth of gardening knowledge. It's certainly a useful friend to the green-fingered.

Gardening Companion – available on iOS

### **4. INTO GARDEN**

Designing a new garden layout? Then look no further than the Into Gardens app, created by a British garden designer. It's ideal for those wanting a more sustainable

way of life as it encourages you to eat what you grow. Summer fruit and vegetable patch anyone?

Into Garden – available on iOS and Android

## **5. FLOWER CHECKER**

There are a few apps on this list that offer a plant identification service. But the Flower Checker app is perhaps one of the most accurate, using the expertise of real botanists, who are able to identify more than 90% of all plant species. A plus is that the app has no adverts.

Flower Checker – available on iOS and Android

## **6. PLANTIFIER**

Unlike Flower Checker, Plantifier uses the masses rather than the experts to help with plant recognition. All you have to do is upload a photo of the unknown plant, and other users on the app.

- **Importance/ Advantages:**

- It soon to have positive benefits for farmers traders.
- Up- to- date Information on prices and other market factors enables farmers to negotiate with traders.
- Facilitates spatial distribution of products from rural areas to towns and between Markets.
- It helps in managing various processes.
- Farmer will get in slights and valuable information on the resources crop health, changes in weather conditions and many others.

**Objective:**

- To widen the product range.
- To provide accurate information about production technology of Horticultural apps.
- To help in planning for successful operation leading to better quality of produce and customer satisfaction.
- To bring in good marketing practices which helps to cope up with environmental changes.



## **Planning:**

- Firstly, I collected all information about the apps related to production technology of horticultural crops.
- Then I invited the farmers for the demonstration.
- After that I made a chart showing all the apps & their logos.
  - Also I gave them information related to production technology .

## **Conduction:**

- At the day of demonstration, the farmers gathered at the place of demonstration.
- I also gathered the material required for demonstration.

- Then, I gave them detail information about the apps used in production technology in Horticultural crops.
- Also I gave them information about how they can download and use the app. Then they asked their queries.
- Questions asked by farmers :
  - 1 Why the apps are used?  
= The apps are free and anyone can easily afford it.
  - 2 How can we use this ?  
= Firstly you have download it from playstore by the process and the user manual is available with it.
  - 3 Is it safe for buying & selling?  
= Yes, ofcourse.

### **Farmers Feedback:**

Farmer are good response to my demonstration of knowledge & utilization of the apps in seeking information about production technology of horticultural crops.

Farmers felt satisfied with my demonstration they asked about their queries & they promised me that use this apps.

### **Student comments:**

Farmers gave good response to demonstration for also they asked me their various queries. They are cooperated with me.

### **Follow up:**

I conducted demonstration of the knowledge and utilization of the apps in seeking information about production technology of Horticultural crops which was helpful of the farmers

