



Government of Kerala



**REPORT ON  
COST OF CULTIVATION  
OF IMPORTANT CROPS  
IN KERALA 2020-21**



Department of Economics & Statistics, Kerala

2023



**Government of Kerala**

# **Report On Cost of Cultivation of Important Crops in Kerala 2020-21**

---

**Department of Economics & Statistics**

**KERALA**

**2023**



## **PREFACE**

The growth in the agricultural sector is not consistent in the State as the operational land availability, high production cost, asymmetrical seasonality and marketing conditions. The contribution of agriculture sector to state domestic product is also on decline. Formulating proper support price policies, creating marketing facilities and assessing loss out of natural calamities needs reliable data on crop husbandry right from sowing to harvesting stages. The major components of the costs involved are seed/seedlings, fertilisers, labour, rent, equipments, irrigation charges etc. In connection with this, department conducts annual survey on Cost of Cultivation of Important Crops in Kerala.

This report is based on the sample survey on Cost of Cultivation of Important Crops conducted during the agriculture year 2020-21. The crops covered under this study are Paddy (autumn, winter and summer), Coconut, Arecanut, Pepper, Banana, Tapioca, Ginger, Turmeric, Bitter Gourd (autumn, winter and summer), Cowpea (autumn, winter and summer), Pineapple and Cardamom.

The field work of the survey was carried out through the Statistical Investigators posted in the Taluk Statistical Offices where the scheme is in operation. The report was prepared in the Cost of Cultivation Division of the Directorate of Economics and Statistics. The dedicated efforts made by all officers who associated in this survey at the bottom level to collect data from the cultivators in regular intervals, supervisory officers to ensure the data quality and data tabulation and processing team in the Directorate to bring out this publication are very much appreciated. I hope the report will be useful to Planners, Policymakers, Researchers and other data users.

Suggestions and comments for improvement of this report are most welcome.

Thiruvananthapuram.  
01-02-2023



**SAJEEVU P.P**  
**DIRECTOR**



# **Contributors**

## **Data Processing and Report Preparation**

Smt.Lathakumari C.S., Additional Director

Sri.Preeth V.S., Deputy Director

Smt.Shailamma K., Deputy Director

Sri.Rajesh Kumar B.R, Research Officer

Smt.Minimol S., Research Assistant

Smt.Thankom S., Statistical Assistant- Grade I

Smt.Shaija S Nair., Statistical Assistant- Grade II

## **Software Support**

Computer Division, Directorate of Economics and Statistics

## **Data Collection**

Statistical Investigators & Supervisory Officers,

Taluk and District Level Officers, Department of Economics and Statistics



## CONTENTS

		<b>TITLE</b>	Page No.
<b>Chapter 1</b>	1	General	1
<b>Chapter 2</b>	2	Results of the Survey	10
	2.1.1	Paddy-Autumn	11
	2.1.2	Paddy-Winter	17
	2.1.3	Paddy-Summer	22
	2.2	Coconut	27
	2.3	Arecanut	30
	2.4	Tapioca	34
	2.5	Banana	37
	2.6	Pepper	40
	2.7	Ginger	43
	2.8	Turmeric	46
	2.9	Pineapple	50
	2.10.1	Bitter gourd-Autumn	53
	2.10.2	Bitter gourd-Winter	56
	2.10.3	Bitter gourd-Summer	59
	2.11.1	Cowpea-Autumn	62
	2.11.2	Cowpea-Winter	65
	2.11.3	Cowpea-Summer	69
	2.12	Cardamom	72
	2.13.1	Ash Guard Autumn	75
	2.13.2	Ash Guard Winter	78
	2.13.3	Ash Guard Summer	81

	2.14.1	Cucumber Autumn	84
	2.14.2	Cucumber Winter	86
	2.14.3	Cucumber summer	89
	2.15.1	Snake Guard Autumn	92
	2.15.2	Snake Guard Winter	94
	2.15.3	Snake Guard Summer	97
	2.16.1	Ladies Finger Autumn	100
	2.16.2	Ladies Finger Winter	102
	2.16.3	Ladies Finger Summer	105
	2.17.1	Cabbage Autumn	108
	2.17.2	Cabbage Winter	110
	2.17.3	Cabbage Summer	113
	2.18.1	Carrot Autumn	116
	2.18.2	Carrot Winter	119
	2.18.3	Carrot Summer	122
	2.19.1	Potato Autumn	125
	2.19.2	Potato Winter	127
	2.20.1	Beans Autumn	130
	2.20.2	Beans Winter	132
	2.20.3	Beans Summer	135
	2.21.1	Garlic Autumn	138
	2.22.1	Tomato Autumn	140
	2.22.2	Tomato Winter	143
	2.22.3	Tomato Summer	146
<b>Table</b>	202	Area, Sample size and Average Area per holding of some crops during the year 2020-2021	149
	203	Cost A,B and C of Some of Crops per hectare(in Rs) during the year 2020-2021	151

	204	Cost of cultivation per hectare (in Rs) during the year 2020-2021	153
	205	Value of Output per hectare (In Rs.) of some crops during the year 2020-2021	159
<b>Annexure</b>	A1	District wise Area and Number of holdings	161
	A2	District wise cost of Cultivation	195
	A3	Percentage of Hired Human Labour hour to Total Human Labour hour	298
	A4	District wise Value of Product and by product	316



## Chapter I

### GENERAL

#### Introduction

A realistic assessment of the cost of cultivation and value of products of important crops of the state is necessary for the formulation and implementation of schemes in agricultural sector, fixation of floor and support prices, and provision of incentives to cultivators etc. As per the G.O (Rt) 466/76/Plg,dated.27/10/1979, the department has been conducting Cost of Cultivation Survey of 12 Agricultural Crops in 14 District annually. The survey covered all the districts of Kerala by selecting 38 taluks. As per the decision of the Technical Committee which held on 21/10/2020, 11 Vegetable Crops have been included in the Cost of Cultivation Survey for the year of 2020-21 in addition to the existing crops.

The crops covered under the round are given below:-

1.	Paddy (3 seasons)
2.	Coconut
3.	Arecanut
4.	Tapioca
5.	Banana
6.	Pepper
7.	Ginger
8.	Turmeric
9.	Pineapple
10.	Bitter gourd(3 seasons)
11.	Cowpea (3 Seasons)
12.	Cardamom
13.	Ash Guard (3 Seasons)
14.	Cucumber (3 Seasons)
15.	Snake Guard (3 Seasons)
16.	Ladies Finger (3 Seasons)
17.	Cabbage (3 Seasons)
18.	Carrot (3 Seasons)
19.	Potato (3 Seasons)
20.	Beans (3 Seasons)
21.	Beetroot (3 Seasons)
22.	Garlic (3 Seasons)
23.	Tomato (3 Seasons)

## Objectives

The main objective of this survey is to estimate the cost of cultivation per hectare of important crops in Kerala and to compare the cost different concepts over a period. The survey is to produce reliable estimates on production cost involved in major agricultural crops in the State. Major perennial, annual and seasonal crops are covered in the survey with a breakup of cost incurring during various stages from sowing to harvest.

### 1.3. Period of the Survey

The period of the survey was the Agricultural Year (July to June) 2020-21.

### 1.4. Design of the Survey

The survey covered all the districts in the state by considering taluk as a stratum. From each Taluk, required numbers of investigator zones were selected using circular systematic sampling method. Crop wise details and number of zones are given below.

Sl. No	Name of crop	Number of Zones
1	Coconut, Arecanut	4
2	Paddy, Tapioca, Banana, Pepper, Ginger, Turmeric Pineapple, Cardamom.	3
3	Cowpea, Bittergourd, Ash Gourd, Cucumber, Snake Gourd, Ladies Finger, Cabbage, Carrot, Potato, Beans, Beetroot, Garlic, Tomato	2

### Selection of cultivators

In selected Investigator zones, list of cultivators growing paddy in the previous autumn season is prepared based on the last year's Form I Diary connected with the EARAS survey. From this, 5 cultivators who are likely to be engaged in paddy cultivation during the current year are selected at random for the study for autumn paddy. Similar procedure is adopted for the selection of cultivators for winter and summer season.

In case the cultivators who are selected for cost of cultivation study in Autumn Paddy possess suitable number of plots and engaged in cultivation of other specified crops in stipulated area/numbers will also be selected for the study for other crops like Coconut, Pepper, Arecanut, Banana, Tapioca etc.

If sufficient numbers of suitable plots of other crops are not available within the cultivators selected for the study of Autumn Paddy, the required number of plots growing crops other than paddy will be selected from the list of wet and dry land plots of the same investigator zone during the previous year. If the selected investigator zone in a taluk does not provide the required number of plots for these crops, another Investigator zone in the same taluk will be

selected at random for selection of the remaining (required) number of plots/cultivators for the study.

**Number of holdings selected for each crops in a Taluk:**

1	Paddy	Autumn	15 (5 holdings each from one Investigator zone)
		Winter	15 (5 holdings each from one Investigator zone)
		Summer	15 (5 holdings each from one Investigator zone)
2	Coconut		20 (5 holdings each from one Investigator zone)
3	Arecanut		20 (5 holdings each from one Investigator zone)
4	Pepper		15 (Minimum 2 holdings in one Investigator zone)
5	Banana		15 (Minimum 2 holdings in one Investigator zone)
6	Tapioca		15 (Minimum 2 holdings in one Investigator zone)
7	Ginger		15 (Minimum 2 holdings in one Investigator zone)
8	Turmeric		15 (Minimum 2 holdings in one Investigator zone)
9	Pineapple		15(5 holdings each from one Investigator zone)
10	Bitter gourd	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
11	Cowpea	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
12	Cardamom		15(5 holdings each from one Investigator zone)
13	Ash Guard	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)

		Summer	10(5 holdings each from one Investigator zone)
14	Cucumber	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
15	Snake Guard	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
16	Ladies Finger	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
17	Cabbage	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
18	Carrot	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
19	Potato	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
20	Beans	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)

21	Beetroot	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
22	Garlic	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)
23	Tomato	Autumn	10(5 holdings each from one Investigator zone)
		Winter	10(5 holdings each from one Investigator zone)
		Summer	10(5 holdings each from one Investigator zone)

A holding is to be considered for the study normally if the crop coverage is at least 25 cents in the case of Paddy and Cardamom, 10 cents for Tapioca, Banana and Pineapple and 5 cents for Ginger, Turmeric, Cowpea and Bitter gourd. In case of perennial crops like Coconut, Arecanut and Pepper the holdings should have 25 trees/plants of which a minimum of 50% should be bearing trees/plants in the selected holding.

The holdings are grouped under three size classes (small, medium and large) for each crop on the basis of the area under the crops in the holding as:

Size Group	Holding size	
	Paddy	Other crops
Small	< 0.40 hectare	<0.2 hectare
Medium	0.40 to < 2 hectare	0.20 to < 0.80 hectare
Large	≥ 2 hectare	≥ 0.80 hectare

## 1.5 Schedules

### Schedules used for the survey

Schedule -1	Selected Investigator zone
Schedule -2	Summary of Form I Diary
Schedule -3	List of selected cultivators
Schedule -4	General Particulars
Schedule -5	Recorded cost incurred for growing the selected crop in each fortnight.

## 1.6 Field work

Fieldwork was done in 38 Taluks. One Investigator/enumerator is posted in each Taluk for this purpose. The investigators visited the selected holdings/cultivators every fortnight/three weeks/one month/two month and recorded fortnightly details of agricultural operations in schedule 5. Periodicity of visit will vary according to the type of crop. Periodicity of visit are given below

Sl. No	Name of crop	Periodicity
1	Cowpea, Bitter gourd, Ash Gourd, Cucumber, Snake Gourd, Ladies Finger, Cabbage, Carrot, Potato, Beans, Beetroot, Garlic, Tomato	Fortnight
2	Paddy	Three weeks
3	Cardamom	One month
4	Coconut, Arecanut, Pepper, Tapioca, Banana, Ginger, Turmeric, Pineapple.	Two months

The fieldwork was supervised by Taluk Statistical Officer/Statistical Inspector at the Taluk level and Deputy Director/District officer/other district level supervisory officer at the District level.

### **1.7 Processing and Analysis of Data**

The data entry and tabulation sheet preparation were done at Taluk level in DESCAS software. The compilation and preparation of District tabulation sheet were done at the district office and the report preparation, writing and analysis were done at the Directorate.

### **1.8 Method of Estimation**

#### **(a) Concepts of Cost.**

Cost incurred for growing the selected crops are classified under, cost 'A' cost 'B1', Cost 'B' and Cost 'C' and the analysis of the data is made as: **Cost 'A'**

**Cost 'A'**All kind of expenses (paid out costs) actually incurred by the cultivators. includes:

- i. Hired human labour
- ii. Animal labour
- iii. Machine labour
- iv. Seed/ seedlings
- v. Farm yard Manure and Chemical fertilizers
- vi. Plant protection
- vii. Land tax and Irrigation Cess
- viii. Repair and maintenance charges of implements, machinery and buildings
- ix. Interest on working capital
- x. Other expenses

**Cost 'B1': Cost 'A' + Interest on fixed assets (excluding land)**

**Cost 'B': Cost 'B1' + interest on Fair value of land**

**Cost 'C': Cost 'B' + Imputed value of family labour**

As per the recommendation of the Expert Committee for Agricultural Statistics, instead of taking interest on Land value, Fair value of land reported by the Land Revenue Department has been taken for calculating Cost B of each crop.

**(b) Procedure for imputation of values of owned inputs**

In the production process, certain inputs from home stocks are used. In order to estimate the cost, the values of input used out of home stock are imputed. The procedures used for the imputation of values of such home stock inputs are:

I	Family labour	Imputed on the basis of average wage rate per work hour of hired labour.
II	Owned and Exchange human labour	The rate of wages per hour for hired human labour is taken for imputing the value of own stock and exchange human labour
III	Owned and Exchange animal labour	The charges paid per hour for hired animal labour is taken for imputing the value of owned and exchange animal labour.
IV	Owned and Exchange machine labour	The hire charges per hour for machine labour has been taken
V	Implement	Repair and maintenance charges of implements
VI	Owned seed	Farm produced (house grown) seed has been imputed at the prices prevalent in the investigator zone concerned at the time of sowing
VII	Farm produced manure	Imputed at the rate prevalent in the zone concerned.
VII I	Interest on fixed capital	Interest on the present value of fixed assets such as land, farm, building, implements, machinery, irrigation structure, equipments and livestock (only draught animals) at the rate of 10 % per annum has been calculated.
IX	Interest on working capital	Interest has been charged at the rate of 10% per annum on the working capital, cash and expenses excluding items in respect of which payments are generally made after harvest (i.e. rent, land tax etc) incurred during the period of cultivation
X	Payments in kind	The payments in kind have been evaluated at the market prices prevalent in the locality at the time of payment. perquisites have been included in the payments in kind calculated at the market prices.

**(c) Allocation of costs to different crops**

Some of the inputs used for the cultivation of one crop are common for other crops also. For the purpose of computing the cost share of individual crops, the cost of such inputs is apportioned in the following manner.

I	Repair and maintenance charges of implements	In proportion to the area under the crop
II	Interest on fixed capital (excluding land)	In proportion to the area under the crop
III	Interest on land value	Interest on the Fair value of land under the crop

**(d) Procedure for valuation of farm assets**

I	Own farm buildings (cattle sheds, storage shed etc)	prices prevailing in the locality
II	Implements and other machinery	prevalent market prices
III	Livestock (only draught animals)	prevalent market prices

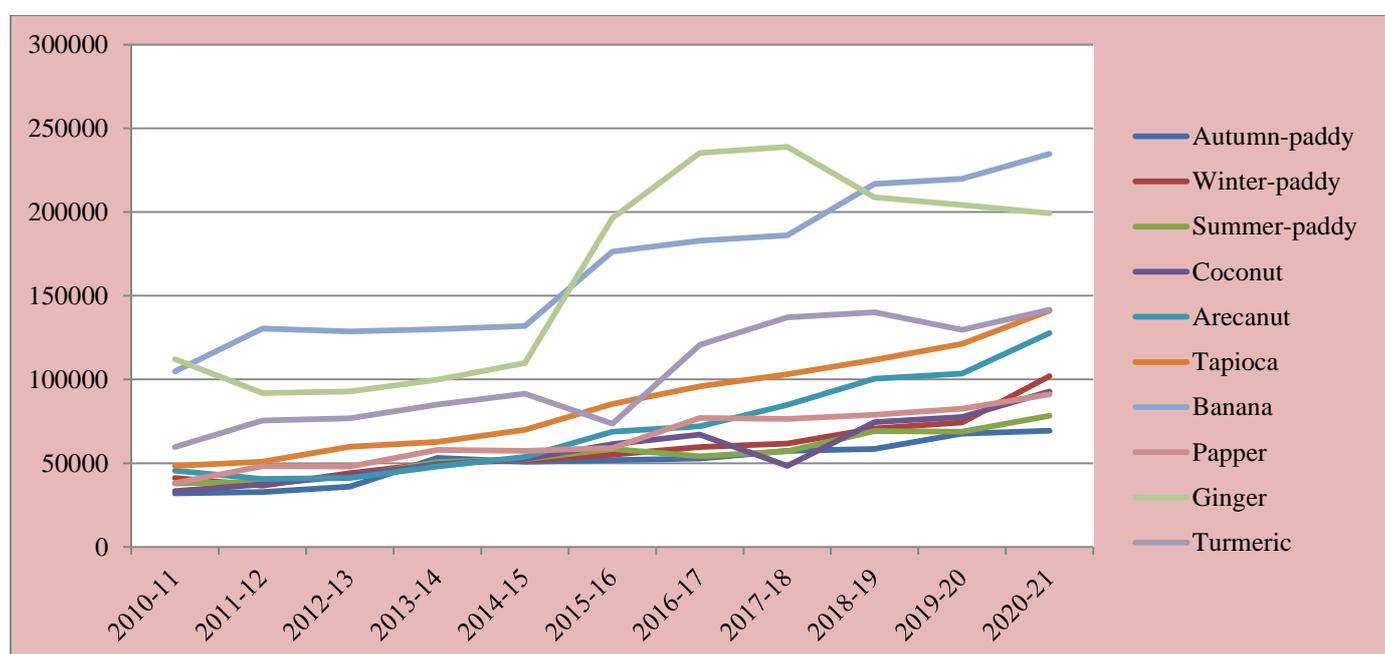
In calculating the cost of production of paddy crop in each season the interest on fair value of land at the rate of 10% per annum for the period of 6 months is taken in to account. The land value is estimated at the fair value rate of agricultural land.

## CHAPTER 2 RESULTS OF THE SURVEY

Cost of cultivation COST A of some important crops such as paddy (3season), coconut, arecanut, tapioca, banana, pepper, ginger, turmeric from 2010-2011 to 2020-2021 is given below. From the table it is clear that COST A of all the crops are increasing. Cost of cultivation of crops during 2010-11 has more or less doubled during 2020-21.

**Table 2. Cost of cultivation of Important Crops From 2010-11 to 2020-21**

CROP	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Autumn-paddy	32019	32713	35968	53142	50895	51823	52818	57369	58545	67722	69344
Winter-paddy	41133	36491	43955	50166	51851	55044	59600	61663	70626	74401	81572
Summer-paddy	37957	38878	41862	50674	52312	58555	54109	57200	69235	68703	78285
Coconut	33343	37361	42390	49277	52588	61429	67062	48434	74536	77584	92727
Arecanut	45534	40560	41114	47912	53665	68723	72041	84897	100395	103454	127718
Tapioca	48474	50907	59770	62703	69925	85382	95899	103061	111688	121258	141117
Banana	104903	130342	128621	129956	131933	176400	182921	186081	216796	219792	234710
Papper	38052	48121	47981	57947	57300	59074	77019	76510	78925	82583	91110
Ginger	112123	91914	92885	99827	109816	196316	235296	238820	208761	204188	199246
Turmeric	59707	75384	76825	85016	91467	73625	120755	137084	140032	129665	141668



During 2020-21, the crops selected for this round of study are Paddy, Cowpea and Bitter gourd (autumn, winter and summer) seasons and the remaining crops Coconut, Tapioca, Banana, Pepper, Arecanut, Ginger, Turmeric, Pineapple and Cardamom for the whole agriculture year. The costs of cultivation of crops are calculated under three different cost concepts viz Cost 'A', Cost 'B', and Cost 'C' respectively.-

### 2.1.1 Paddy- Autumn (Virippu) during 2020-21

For this study details of holding selected and area coverage are given below. The data collected from 459 holdings according to the size class by covering 350.66 hectares of land. It is observed that the average area per holding is 0.76 hectares in all classes while area per holding in large size class, ie more than two hectares 3.44 hectares. But in small size class, ie, less than 0.40 hectare which comprises 242 holdings, the average area per holding is only 0.22 hectare.

**Table 1: Area and number of holdings under Autumn Paddy**

Holding size class	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
Small	242	53.28	15.19	0.22
Medium	172	142.61	40.67	0.83
Large	45	154.78	44.14	3.44
<b>Total</b>	<b>459</b>	<b>350.66</b>	<b>100</b>	<b>0.76</b>

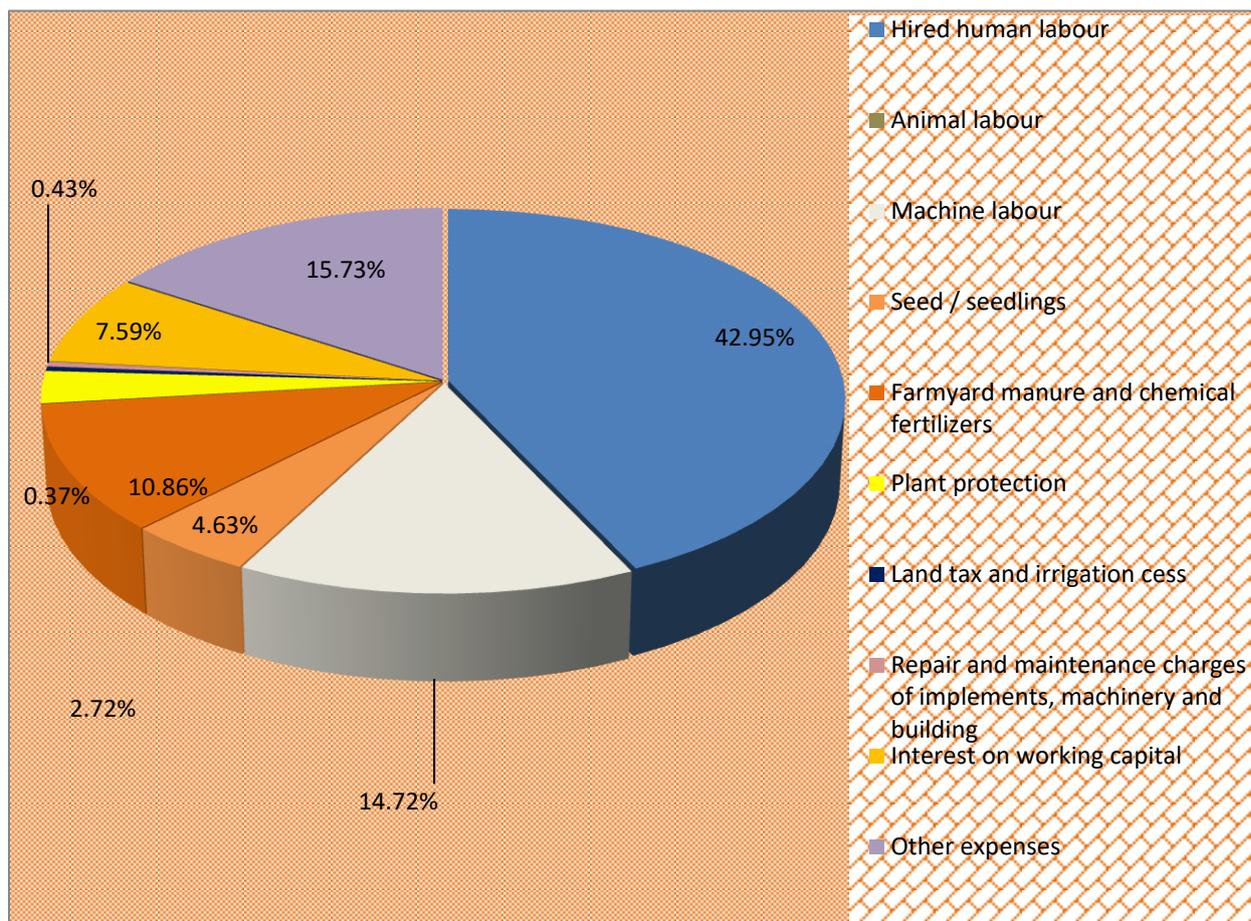
#### Cost of cultivation

The cost of cultivation autumn paddy is calculated under different cost concepts viz Cost 'A, Cost 'B and Cost 'C' respectively. Details are presented in the following table. As usual during this round also it is revealed that in autumn paddy cultivation among various components, hired human labour input constitutes to the largest share 42.95% when Cost 'A is considered. Machine labour cost shares to 14.72% and farmyard manure and chemical fertilizers accounts to 10.86% respectively. Similarly per hectare cost difference between large and small size class is Rs15, 684/-.

**Table 2: Cost of Cultivation per hectare (in Rs.) of Paddy (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	40777	33450	22625	29785
2	Animal labour				
3	Machine labour	9134	9418	11311	10210
4	Seed / seedlings	3481	3202	3132	3213
5	Farmyard manure and chemical fertilizers	9435	7606	6807	7531
6	Plant protection	1047	1867	2186	1883
7	Land tax and irrigation cess	289	260	236	254
8	Repair and maintenance charges of implements, machinery and building	425	100	431	295
9	Interest on working capital	6387	5554	4606	5262
10	Other expenses	8686	9861	12643	10911
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>79661</b>	<b>71318</b>	<b>63977</b>	<b>69344</b>
12	Interest on fixed capital	964	2034	1176	1493
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>80625</b>	<b>73352</b>	<b>65153</b>	<b>70837</b>
14	Interest on land value	270126	292726	578279	415330
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>350751</b>	<b>366078</b>	<b>643432</b>	<b>486167</b>
16	Imputed value of household labour	15387	8457	3572	7354
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>366138</b>	<b>374535</b>	<b>647004</b>	<b>493521</b>

**Percentage Distribution of “COST A” per hectare of Autumn Paddy during 2020-21**



**Table 3: Percentage of hired human labour hours to total human labour hours.**

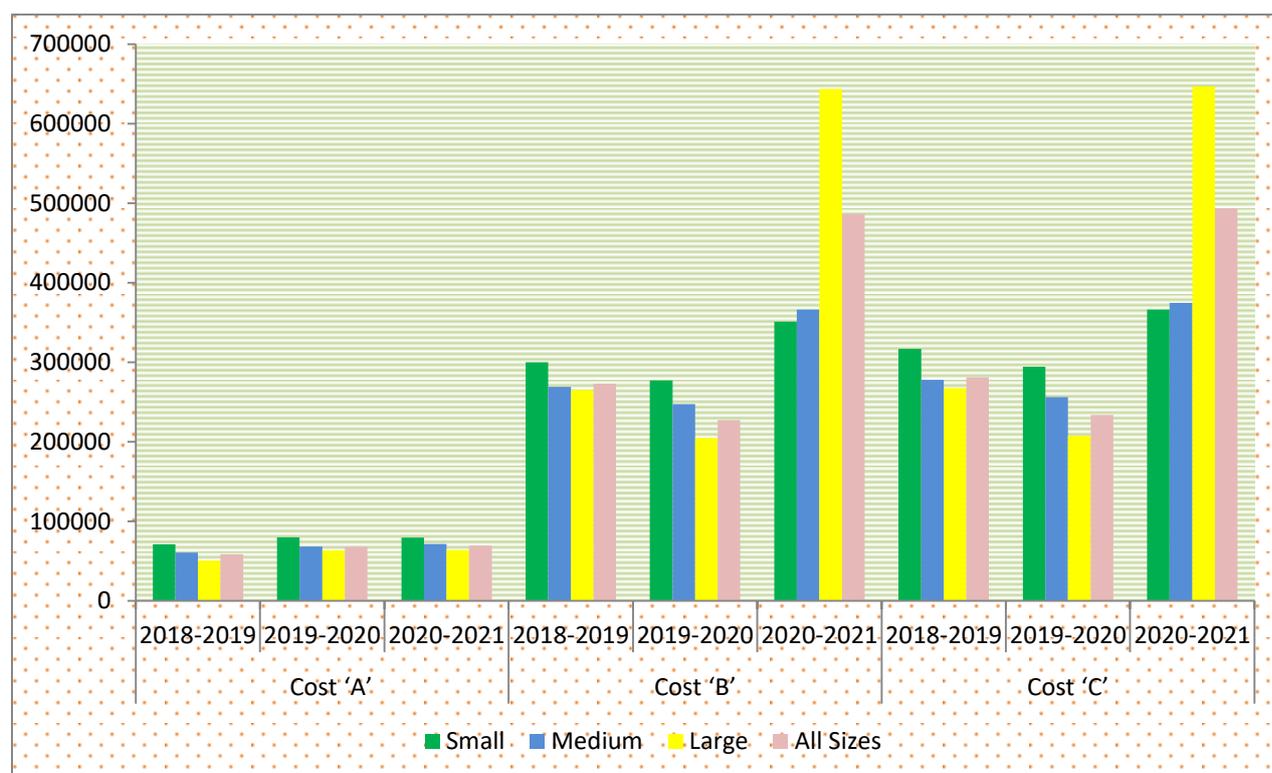
Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	27.78	29.63	47.39	34.34
Female	38.57	42.68	42.30	46.72
<b>Total</b>	<b>66.35</b>	<b>72.31</b>	<b>89.69</b>	<b>81.06</b>

If we consider total labour hours, 81.06% labour hours shares by the hired labour. Out of the hired labour hours, 46.72% of labour hours shares to female participation and 34.34% labour hours shares to male participation.

**Table 4: Cost of cultivation of Autumn Paddy per hectare (in Rs.) during 2018-19, 2019-20 and 2020-21.**

Concept of cost	Year	Holding size class			
		Small	Medium	Large	All Sizes
Cost 'A'	2018-2019	71026	60539	50452	58545
	2019-2020	79860	68127	63598	67722
	2020-2021	79661	71318	63977	69344
Cost 'B'	2018-2019	300016	269106	264888	273141
	2019-2020	276851	247126	204927	227413
	2020-2021	350751	366078	643432	486167
Cost 'C'	2018-2019	316953	277939	267534	281057
	2019-2020	294166	255948	207696	233790
	2020-2021	366138	374535	647004	493521

**Cost of cultivation of Autumn Paddy per hectare (in Rs.) – during 2018-19, 2019-20 and 2020-21**



The last three years data shows a slight fluctuation in cost of paddy cultivation in the state. Cost A per hectare of Autumn Paddy in 2020-21 is increased by Rs 1622 as compared to cost in 2019-20.

### Cost of Production of Paddy per quintal

Cost of production of paddy per quintal is estimated by dividing the cost of cultivation per hectare (after deducting the value of by-product per hectare from the cost of cultivation per hectare) by the quantity of paddy produced per hectare. The survey results show that during 2020-21 for producing one quintal of paddy Rs.1955/- has been expended by the farmer when Cost 'A' is considered. Details are given below:

**Table 5: Per Quintal Cost (In Rs.) of Production of Autumn Paddy during 2018-19, 2019-20 and 2020-21.**

Concept of cost	Year	Holding size class			
		Small	Medium	Large	All Sizes
Cost 'A'	<b>2018-2019</b>	1084	1559	2384	1588
	<b>2019-2020</b>	2223	1911	1795	1906
	<b>2020-2021</b>	2317	1960	1827	1955
Cost 'B'	<b>2018-2019</b>	4580	6931	12517	7410
	<b>2019-2020</b>	7742	6933	5785	6400
	<b>2020-2021</b>	10202	10062	18377	13705
Cost 'C'	<b>2018-2019</b>	4838	7158	12642	7624
	<b>2019-2020</b>	8226	7180	5863	6224
	<b>2020-2021</b>	10649	10295	18479	13913

### Value of out put

Details of product and by-product per hectare in Autumn Paddy during the last three years are given below.

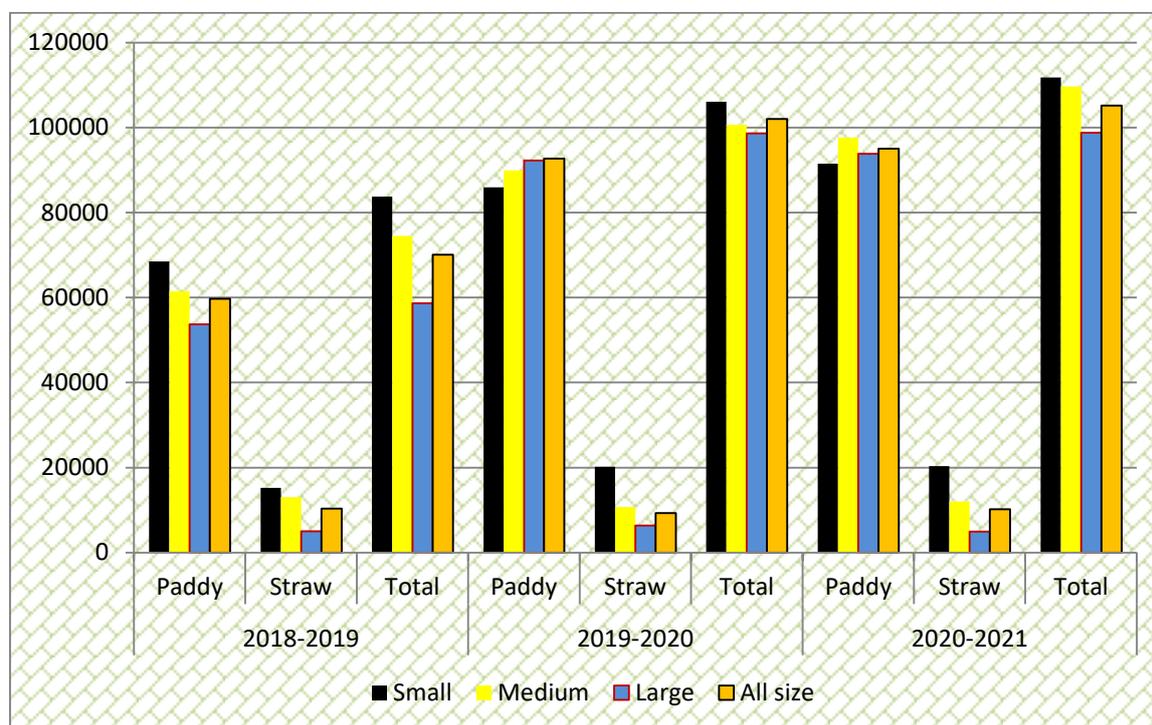
**Table 6: Value of product and by-product per hectare (in Rs.) of Autumn Paddy during 2018-19, 2019-20 and 2020-21**

	Product/ By product	Holding size class			
		Small	Medium	Large	All size
<b>2018-2019</b>	Paddy	68468	61478	53682	59732
	Straw	15259	13023	5006	10319
	<b>Total</b>	<b>83727</b>	<b>74501</b>	<b>58688</b>	<b>70051</b>

2019-2020	Paddy	85939	89923	92270	92662
	Straw	20152	10724	6365	9316
	<b>Total</b>	<b>106091</b>	<b>100647</b>	<b>98635</b>	<b>101978</b>
2020-2021	Paddy	91459	97624	93824	95010
	Straw	20337	12018	4955	10164
	<b>Total</b>	<b>111796</b>	<b>109642</b>	<b>98779</b>	<b>105174</b>

Per hectare value of product and by product in Autumn season shows an increasing trend during 2020-21 when compared to last year. The value of product is increased from Rs 92,662 to Rs 95,010 and the value of straw is also increased.

**VALUE OF PRODUCT AND BY PRODUCT PER HECTARE OF AUTUMN PADDY DURING 2018-2019,2019-20&2020-21.**



**2.1.2 Paddy-Winter (Mundakan) during 2020-21**

During 2020-21 cost of cultivation study on winter paddy was conducted in 536 holdings according the size class by covering 601.07 hectare of land. The average area per holding during the season under study is 1.12 hectare. In winter season area per holding in large size class is 4.36 hectare and in small size class it is only 0.23 hectare, area per holding is increased slightly when compared to autumn season.

**Table 7: Area and number of holdings under Winter Paddy**

Holding size class	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
Small	241	54.52	9.07	0.23
Medium	212	184.43	30.68	0.87
Large	83	362.13	60.25	4.36
<b>Total</b>	<b>536</b>	<b>601.07</b>	<b>100</b>	<b>1.12</b>

**Cost of Cultivation**

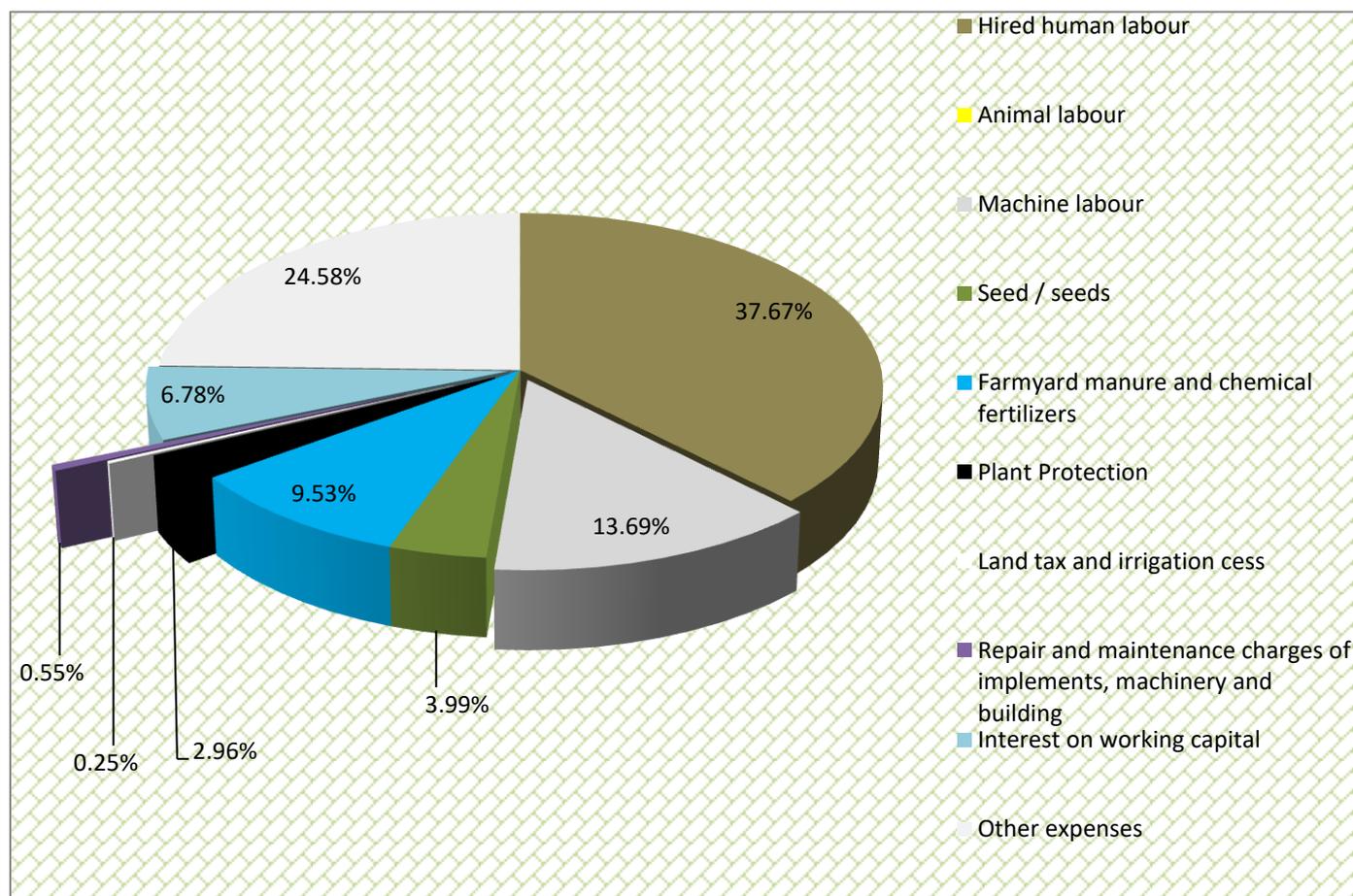
In Cost A, the paid out cost actually incurred by the cultivator, the major share of the cost component was hired human labour. It constitutes 37.67% per cent. Another two major contributing factor in cost are machine labour and other expenses which constitutes 13.69% and 24.58% respectively. Farmyard manure and chemical fertilizers accounts were 9.53%. By considering the various cost component of winter- paddy cultivation of total Cost A, it can be seen that per hectare cost for cultivating paddy is Rs.81572/-. Considerable variation in hired human labour component is reported in winter season during 2020-21 when small and large size classes are compared. Cost difference in human hired labour between small and large size class is Rs15, 275/-

**Table 8: Cost of cultivation per hectare (in Rs.) of Paddy (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	43526	31810	28251	30729
2	Animal labour				
3	Machine labour	10384	12051	10832	11165
4	Seed / seedlings	3170	3376	3205	3255
5	Farmyard manure and chemical fertilizers	10194	8574	7008	7777
6	Plant protection	954	1732	2978	2412
7	Land tax and irrigation Cess	288	254	162	202

8	Repair and maintenance charges of implements, machinery and building	630	200	548	449
9	Interest on working capital	6823	5754	5227	5534
10	Other expenses	10545	13398	24868	20049
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>86514</b>	<b>77149</b>	<b>83079</b>	<b>81572</b>
12	Interest on fixed capital	2076	1355	1597	1566
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>88590</b>	<b>78504</b>	<b>84676</b>	<b>83138</b>
14	Interest on land value	179176	197493	129445	154835
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>267766</b>	<b>275997</b>	<b>214121</b>	<b>237973</b>
16	Imputed value of household labour	17802	9496	3976	6924
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>285568</b>	<b>285493</b>	<b>218097</b>	<b>244897</b>

**Percentage Distribution of "COST A" per hectare of Winter Paddy During 2020-21**



The following table reveals the percentage of hired human labour hours to total human labour hours.

**Table 9: Percentage of hired human labour hours to total human labour hours**

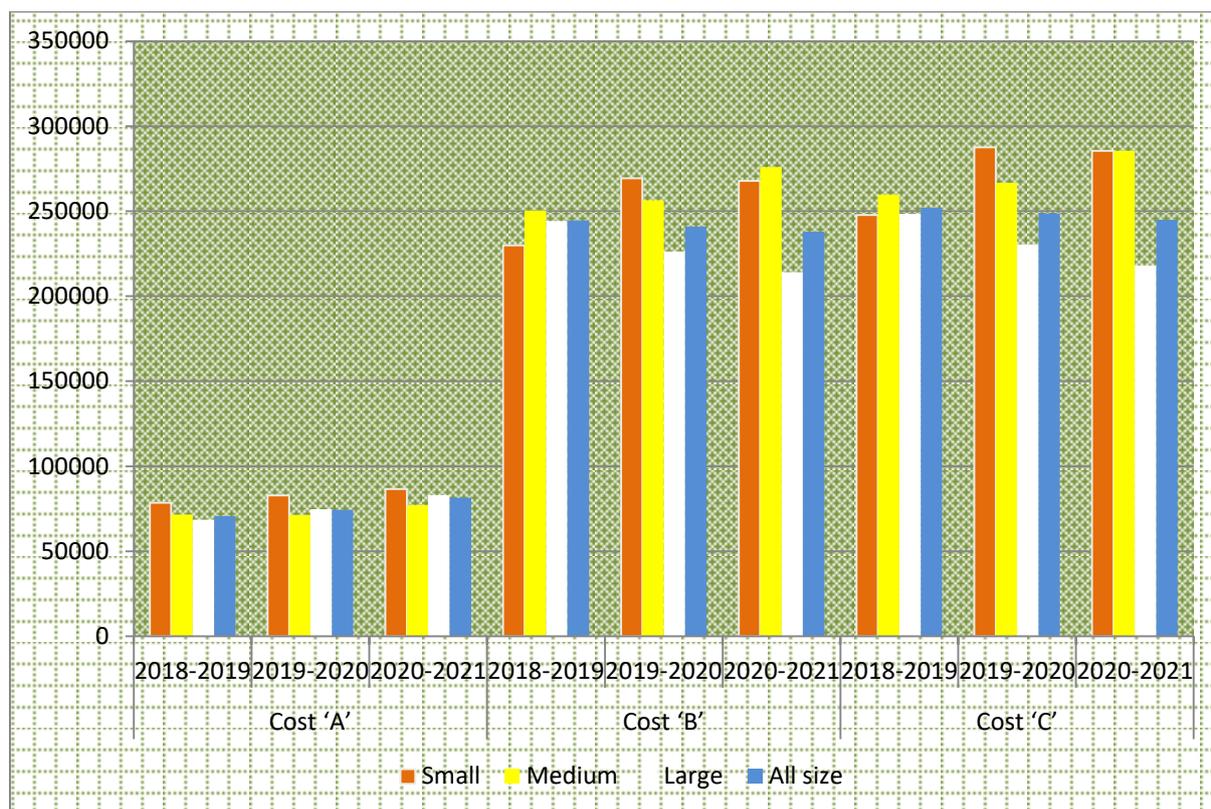
Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	27.91	33.17	52.95	42.27
Female	37.66	40.66	42.92	40.25
<b>Total</b>	<b>65.57</b>	<b>73.83</b>	<b>95.87</b>	<b>82.52</b>

**Table 10: Cost of cultivation of Winter Paddy per hectare (in Rs) during, 2018-2019,2019-2020and 2020-2021.**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	78595	71568	68523	70626
	2019-2020	82806	71434	74712	74401
	2020-2021	86514	77149	83079	81572
Cost 'B'	2018-2019	229950	250330	244144	244575
	2019-2020	269425	256429	226260	241021
	2020-2021	267766	275997	214121	237973
Cost 'C'	2018-2019	247661	259718	248473	252027
	2019-2020	287608	266623	230401	248666
	2020-2021	285568	285493	218097	244897

The result of the survey shows an increase of 9.64 percentage of cost during 2020-21 from the year 2019-20. Also the bottom size class (small) the cost increased by 4.48 percentage during the same period.

### COST OF CULTIVATION PER HECTARE OF WINTER PADDY DURING 2018-19, 2019-20 & 2020-21



### Cost of production of Winter Paddy

**Table 11: Per Quintal Cost (in Rs.) of production of Winter Paddy during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding size class			
		Small	Medium	Large	All Sizes
Cost 'A'	<b>2018-2019</b>	2031	1745	1436	1585
	<b>2019-2020</b>	1029	1778	1846	1675
	<b>2020-2021</b>	2172	1786	1749	1793
Cost 'B'	<b>2018-2019</b>	5942	6105	5115	5490
	<b>2019-2020</b>	3349	6382	5590	5428
	<b>2020-2021</b>	6721	6390	4507	5232
Cost 'C'	<b>2018-2019</b>	6400	6334	5205	5657
	<b>2019-2020</b>	3575	6636	5693	5600
	<b>2020-2021</b>	7167	6610	4591	4943

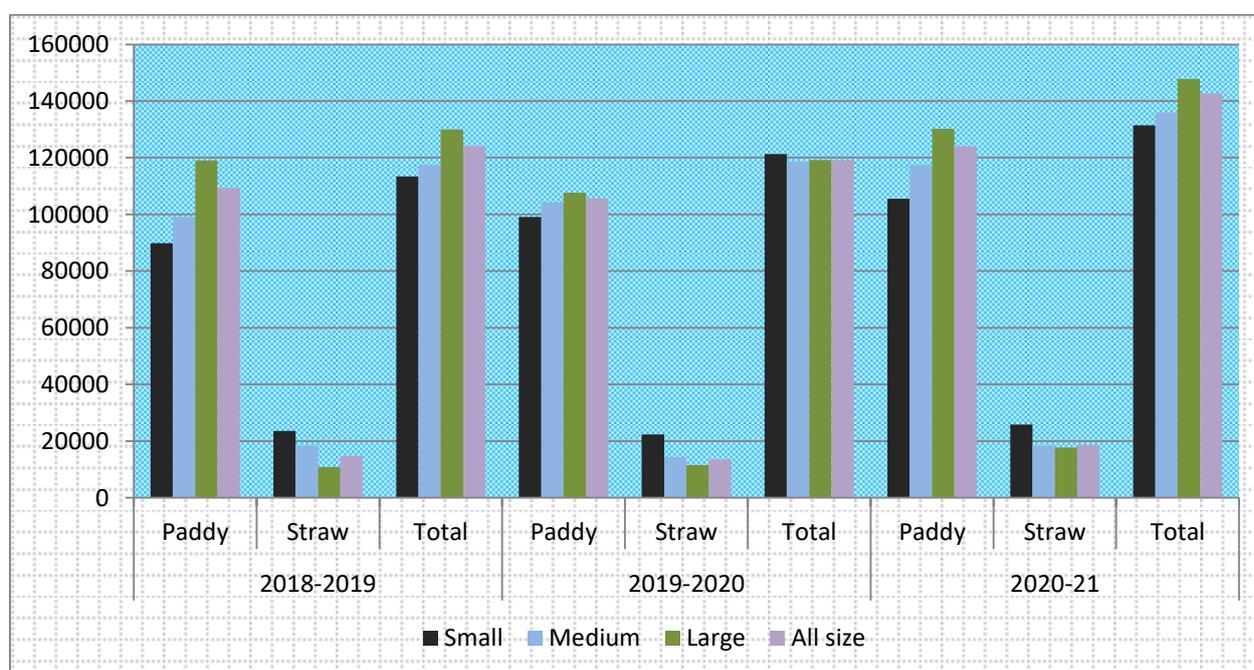
**Value of Output**

**Table 12: Value of Product and By product per hectare (in Rs) of Winter Paddy during 2018-19 2019-20 and 2020-21**

Year	Product/ By product	Holding size class			
		Small	Medium	Large	All size
2018-2019	Paddy	89851	99122	119084	109374
	Straw	23589	18359	10874	14709
	<b>Total</b>	113440	117481	129958	124083
2019-2020	Paddy	99042	104241	107680	105623
	Straw	22301	14373	11470	13563
	<b>Total</b>	121343	118614	119150	119186
2020-2021	Paddy	105556	117442	130152	124021
	Straw	25881	18449	17674	18656
	<b>Total</b>	131437	135891	147826	142677

Compared to autumn 2020-21 value of product and by product per hectre increased marginally during winter season. Similarly per hectare value of product and by product increased by 19.70 percentage in 2020-21 winter season against the value of 2019-20 in the same season.

**Value of Product and By product per hectare (in Rs) of Winter Paddy during 2018-19 2019-20 and 2020-21**



### 2.1.3 Paddy - Summer (Puncha) during 2020-21

For the cost of cultivation study on summer paddy during 2020-21 the total number of holdings selected was 454. Number of holdings selected in large holding size is 76. The details of these holdings are presented below:

**Table 13: Area and number of holdings under Summer Paddy**

Holding size class	Sample Size	Area under the crop in the sample (ha)	Percentage	Average Area per holding (ha)
Small	180	38.44	5.85	0.21
Medium	198	183.20	27.90	0.93
Large	76	435.09	66.25	5.72
<b>Total</b>	<b>454</b>	<b>656.72</b>	<b>100</b>	<b>1.45</b>

The above table reveals that the total area under cultivation in the selected sample holdings covers to 656.72 hectares and the average size of a holding is 1.45 hectare. In the large size class the average area per holding is 5.72 hectare where as in small size class area per holding is 0.21 hectare only.

#### Cost of Cultivation

Cost of cultivation of summer paddy per hectare is estimated as Rs.78, 285/- when cost 'A' is considered. Component wise holding size class details are presented below.

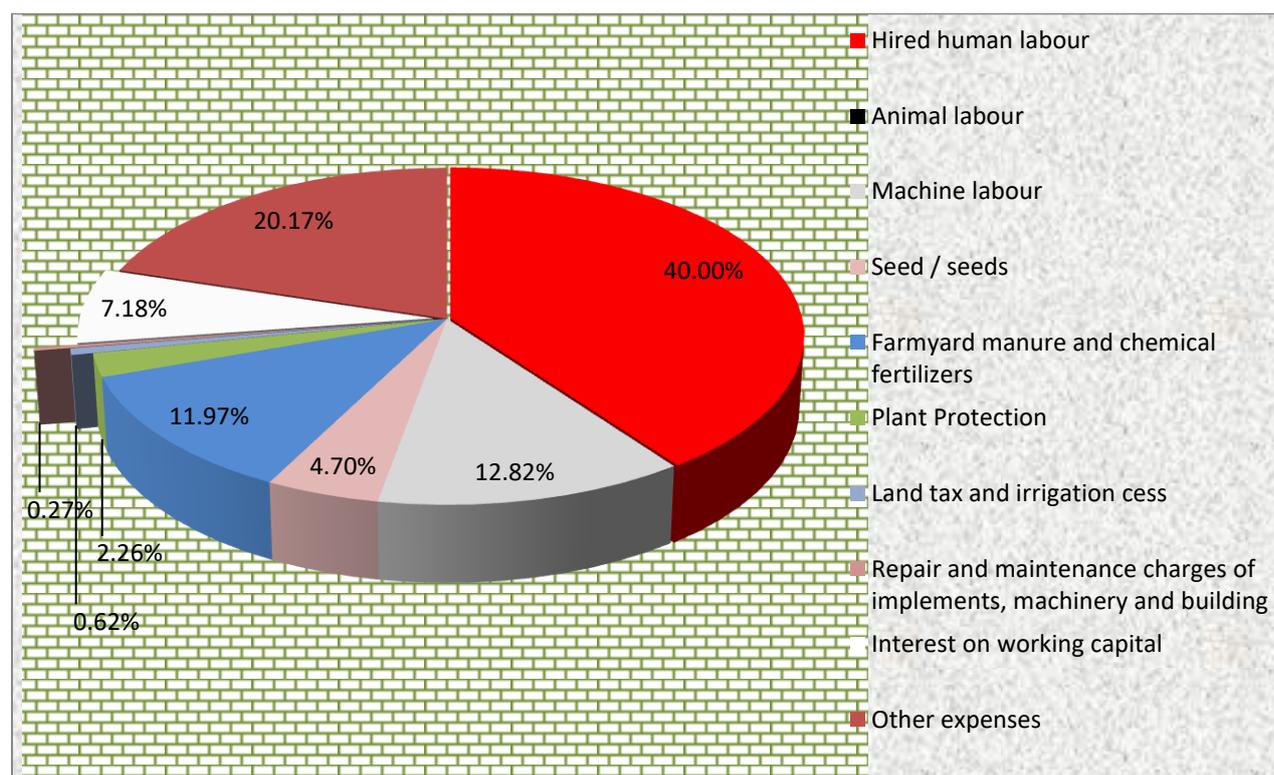
**Table 14: Cost of Cultivation per hectare (in Rs.) of Paddy (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	39293	32188	30244	31316
2	Animal labour				
3	Machine labour	11279	9971	9954	10037
4	Seed / seedlings	3398	3551	3762	3682
5	Farmyard manure and chemical fertilizers	10433	8800	9522	9374
6	Plant protection	1243	1817	1798	1771

7	Land tax and irrigation Cess	352	447	512	484
8	Repair and maintenance charges of implements, machinery and building	433	225	192	215
9	Interest on working capital	6564	5633	5528	5618
10	Other expenses	10300	13346	17301	15788
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>83295</b>	<b>75978</b>	<b>78813</b>	<b>78285</b>
12	Interest on fixed capital	3248	2686	389	1197
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>86543</b>	<b>78664</b>	<b>79202</b>	<b>79482</b>
14	Interest on land value	180932	172009	262801	232682
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>267475</b>	<b>250673</b>	<b>342003</b>	<b>312164</b>
16	Imputed value of household labour	19381	8840	3474	5902
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>286856</b>	<b>259513</b>	<b>345477</b>	<b>318066</b>

Out of the total cost incurred for crop husbandry more than 40 percent cost goes to human labour component. Similarly compare to winter season a slight decrease in total cost A during the summer season is reported.

**Percentage Distribution of "COST A" per hectare of Summer Paddy During 2020-21**



In summer paddy cultivation hired female labour participation accounted as 39.60 % and that of male labour participation is 45.33% to the total labour hours. Details are given

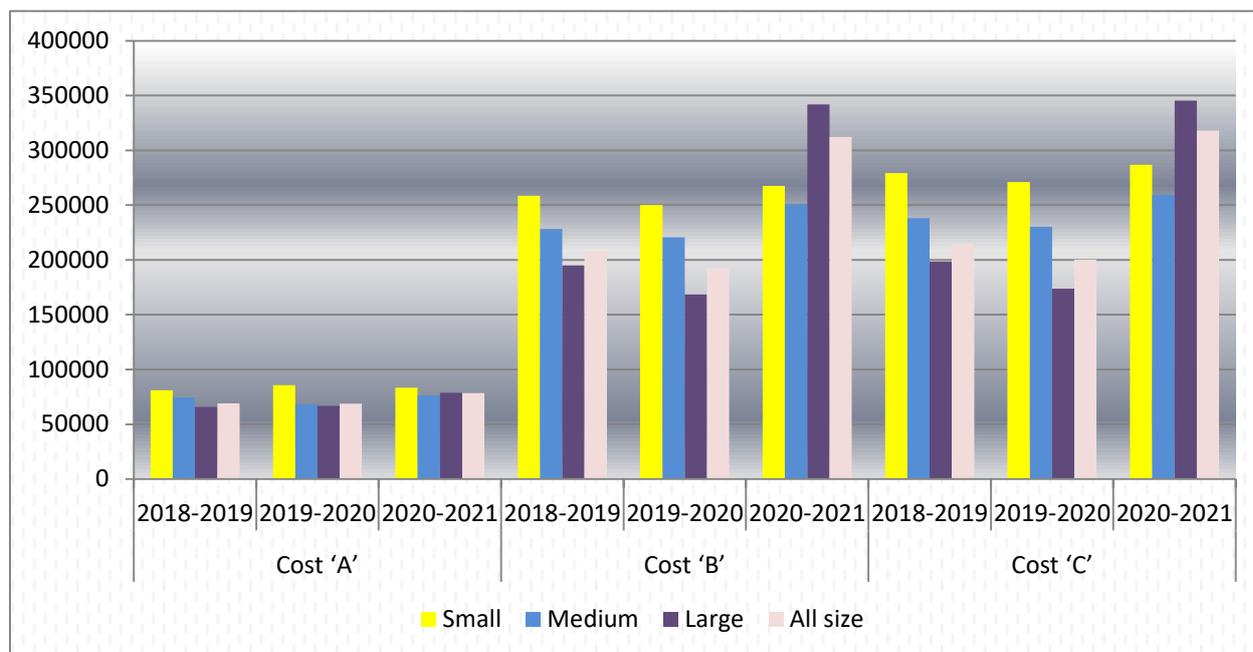
**Table 15: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	26.27	39.94	51.15	45.33
Female	35.63	39.88	44.57	39.6
<b>Total</b>	<b>61.9</b>	<b>79.82</b>	<b>95.72</b>	<b>84.93</b>

**Table 16: Cost of Cultivation of Summer Paddy per hectare (in Rs) during 2018-2019, 2019-2020 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	81071	74220	65971	69235
	2019-2020	85604	67893	66740	68703
	2020-2021	83295	75978	78813	78285
Cost 'B'	2018-2019	258577	228284	194920	208267
	2019-2020	250126	220738	168339	192252
	2020-2021	267475	250673	342003	312164
Cost 'C'	2018-2019	279185	238230	198552	214828
	2019-2020	270988	230261	173826	200344
	2020-2021	286856	259513	345477	318066

**COST OF CULTIVATION PER HECTARE OF SUMMER PADDY DURING  
2018-19, 2019-20 and 2020-21**



### Value of Output

**Table 17: Per Quintal Cost (in Rs.) of production of Summer Paddy during,  
2018-19,2019-2020 and 2020-21**

Concept of cost	Year	Holding size class			
		Small	Medium	Large	All Sizes
Cost 'A'	<b>2018-2019</b>	1869	1558	1406	1479
	<b>2019-2020</b>	2068	1600	1424	1528
	<b>2020-2021</b>	2108	1725	1526	1604
Cost 'B'	<b>2018-2019</b>	5960	4793	4153	4449
	<b>2019-2020</b>	6044	5203	3591	4275
	<b>2020-2021</b>	6767	5693	6623	6395
Cost 'C'	<b>2018-2019</b>	6435	5002	4231	4265
	<b>2019-2020</b>	6548	5428	3708	4128
	<b>2020-2021</b>	7257	5893	6690	6193

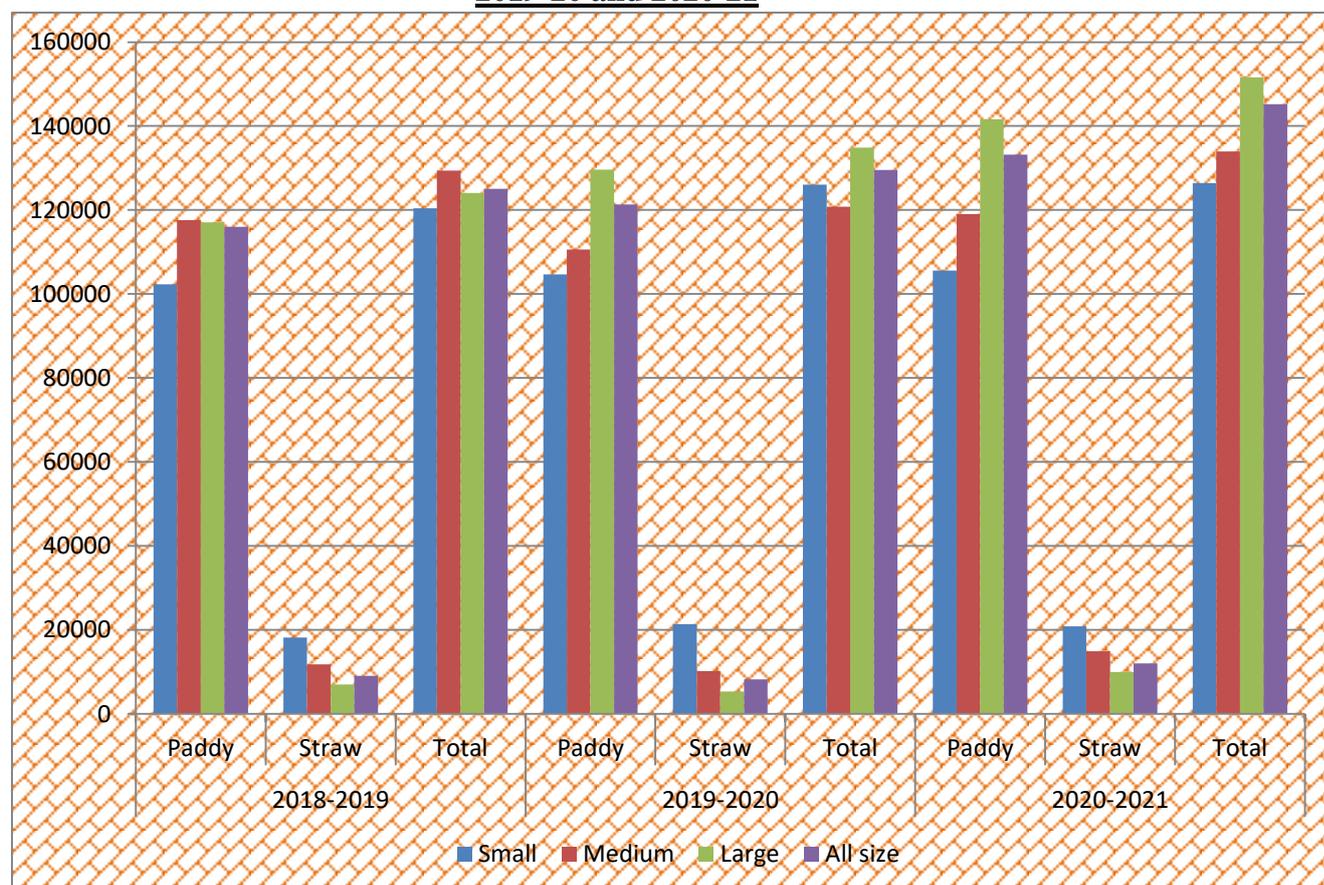
Above table reveals that for producing one quintal of paddy in summer season an amount of Rs1604/- is required when cost 'A' is considered. Per hectare value of paddy produced during

the season is calculated as Rs.1,33,195/- and the value of by-product viz. straw is estimated as Rs.11,993/-

**Table 18: Value of Product and by product per hectare (in Rs) of Summer Paddy during 2018-19, 2019-20 and 2020-21**

Year	Product/ By product	Holding size class			
		Small	Medium	Large	All size
2018-2019	Paddy	102291	117584	117075	115989
	Straw	18150	11795	6982	9079
	<b>Total</b>	120441	129379	124057	125068
2019-2020	Paddy	104690	110615	129587	121326
	Straw	21380	10187	5301	8242
	<b>Total</b>	126070	120802	134888	129568
2020-2021	Paddy	105613	119007	141606	133195
	Straw	20802	14937	9975	11993
	<b>Total</b>	126415	133944	151581	145188

**Value of Product and By product per hectare (in Rs) of Summer Paddy during 2018-19, 2019-20 and 2020-21**



## 2.2 Coconut during 2020-21

The area as well as production of coconut in the state has been declining. The data regarding the cost of cultivation of Coconut is significant. As there is a general feeling among the cultivators that the profitability of the crop is decreasing due to the prevalence of high cost involved to the cultivation. To conduct the study 760 sample holdings selected in the state from the different holding size classes, the average area per holding was 0.38 hectare. Details of the study conducted during 2020-21 are presented below.

**Table 19: Area and number of holdings under Coconut cultivation**

Holding size class	Sample Size	Area under crop in the sample (ha)	Percentage	Average Area per holding (ha)
Small	306	43.36	15.02	0.14
Medium	362	132.27	45.83	0.37
Large	92	112.98	39.15	1.23
<b>Total</b>	<b>760</b>	<b>288.61</b>	<b>100</b>	<b>0.38</b>

### Cost of Cultivation

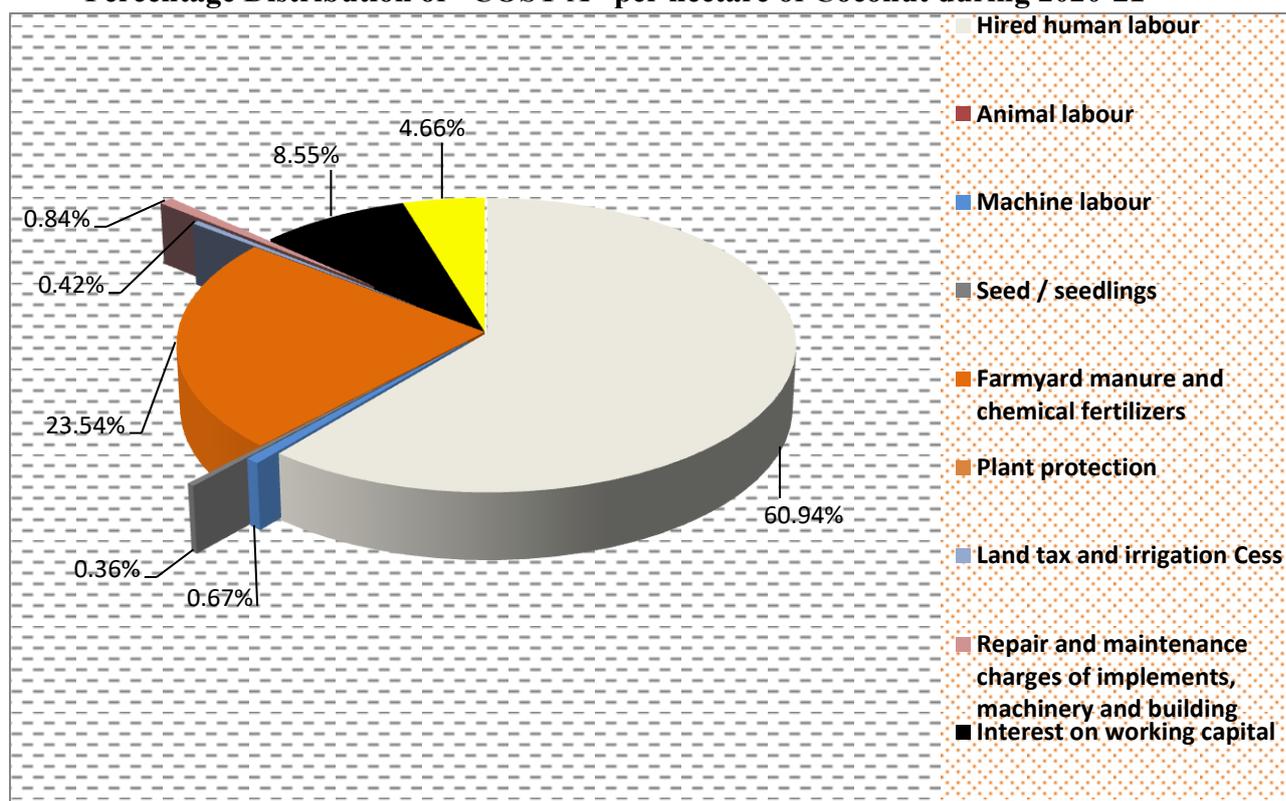
Cost per hectare for cultivating coconut during 2020-21 was Rs 92,727/- excluding interest on fixed capital, land value and value of household labour. Out of this 60.94 % of total cost is for the component of hired human labour and 23.54 % for farmyard manure and chemical fertilizer.

**Table 20: Cost of Cultivation per hectare (in Rs.) of Coconut**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	53093	56400	57954	56511
2	Animal labour				
3	Machine labour	249	246	1214	625
4	Seed / seedlings	91	179	615	337
5	Farmyard manure and chemical fertilizers	18160	21308	23852	21831

6	Plant protection				
7	Land tax and irrigation Cess	346	391	392	385
8	Repair and maintenance charges of implements, machinery and building	1009	261	1309	783
9	Interest on working capital	7159	7813	8364	7930
10	Other expenses	3930	3981	4878	4325
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>84037</b>	<b>90579</b>	<b>98578</b>	<b>92727</b>
12	Interest on fixed capital	4375	3359	6878	4889
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>88412</b>	<b>93938</b>	<b>105456</b>	<b>97616</b>
14	Interest on land value	594038	513365	573790	549139
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>682450</b>	<b>607303</b>	<b>679246</b>	<b>646755</b>
16	Imputed value of household labour	17922	10813	5285	9717
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>700372</b>	<b>618116</b>	<b>684531</b>	<b>656472</b>

Percentage Distribution of "COST A" per hectare of Coconut during 2020-21



The following table reveals the percentage distribution of hired human labour hours to the total human labour hours. The percentage shares of female participation in total human labour hours are 7.7 percentage.

**Table 21: Percentage of hired human labour hours to the total human labour hours**

Sex	Holding Size Class			
	Small	Medium	Large	All Sizes
Male	65.95	70.92	76.34	72.01
Female	9.49	19.04	31.37	7.7
<b>Total</b>	<b>75.44</b>	<b>89.96</b>	<b>107.71</b>	<b>79.71</b>

**Table 22: Cost of cultivation of Coconut per hectare (in Rs.) during 2018-19, 2019-20 & 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	73347	74291	75067	74536
	2019-2020	76187	78153	77388	77584
	2020-2021	84037	90579	98578	92727
Cost 'B'	2018-2019	583856	640556	472187	558313
	2019-2020	512267	523934	538967	528621
	2020-2021	682450	607303	679246	646755
Cost 'C'	2018-2019	600149	652331	478105	567948
	2019-2020	528691	535188	545247	538493
	2020-2021	700372	618116	684531	656472

**Value of output****Table 23: Value of Output per hectare (in Rs) of Coconut**

Product/By-product	Holding Size Class			
	Small	Medium	Large	All Sizes
Product	163252	166670	167789	166595
By-Product	2175	2922	4306	3352
<b>Total</b>	<b>165427</b>	<b>169592</b>	<b>172095</b>	<b>169947</b>

The study reveals that the value of output is Rs.1,69,947/- per hectare were as the cost of cultivation per hectare is Rs.92,727/-.

**2.3 Arecanut during 2020-2021**

Arecanut is one among the cash crops cultivating in the state. Similar to some other crops the area of this crop is shrinking on varied reason especially the cost of cultivation. For this study 750 sample holding were selected under three holdings size classes namely small, medium and large. The average area per holding was 0.13 hectare and the total area under the crop in the sample was 108.21 hectare.

**Table 24: Area and Number of holdings under Arecanut cultivation**

Holding size class	Sample Size	Area under the crop in the sample (ha)	Percentage	Average Area per holding (ha)
Small	606	36.39	33.63	0.06
Medium	113	37.78	34.91	0.31
Large	31	34.04	31.46	1.01
<b>Total</b>	<b>750</b>	<b>108.21</b>	<b>100</b>	<b>0.13</b>

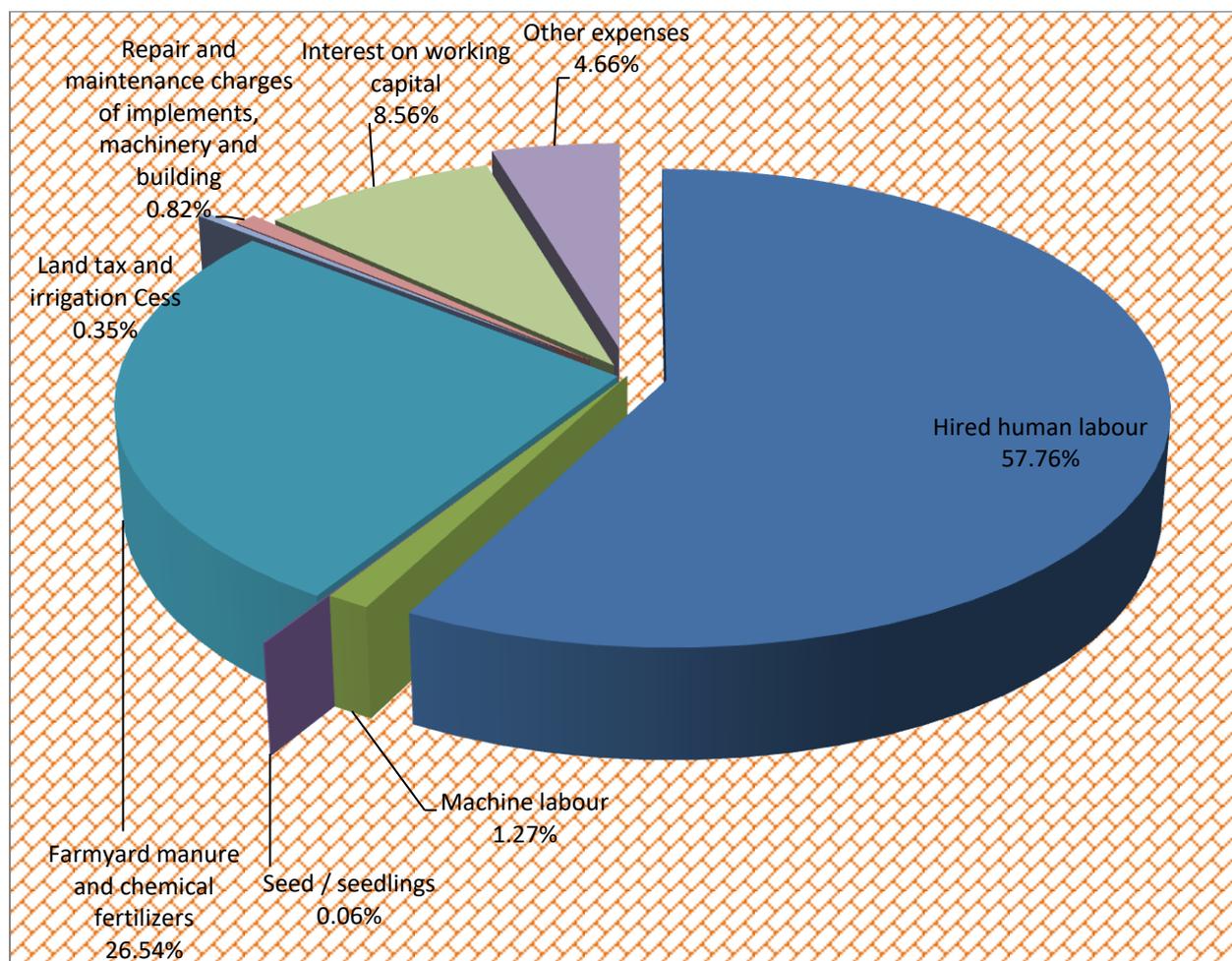
## Cost of Cultivation

The different cost components of Arecanut cultivation is given below: Per hectare cost expenses is worked out as Rs.127718/- excluding interest on fixed capital, interest on land value and household labour components. Out of this 57.76% cost is for hired human labour and 26.54% for farmyard manure and chemical fertilizers.

**Table 25: Cost of Cultivation per hectare (in Rs.) of Arecanut**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	67171	82853	71185	73764
2	Animal labour				
3	Machine labour	393	950	3641	1618
4	Seed / seedlings	66	97	71	78
5	Farmyard manure and chemical fertilizers	23770	40268	37498	33892
6	Plant protection				
7	Land tax and irrigation Cess	425	434	478	443
8	Repair and maintenance charges of implements, machinery and building	1278	694	1073	1042
9	Interest on working capital	9140	12417	11240	10935
10	Other expenses	6080	5311	6603	5946
11	<b>Total Cost 'A' (1-10)</b>	108323	143024	131789	127718
12	Interest on fixed capital	10768	9335	7483	9299
13	<b>Cost 'B1' (11+12)</b>	119091	152359	139272	137017
14	Interest on land value	492993	451595	440270	461914
15	<b>Cost 'B' (13+14)</b>	612084	603954	579542	598931
16	Imputed value of household labour	28627	16551	9127	18398
17	<b>Cost 'C' (15+16)</b>	640711	620505	588669	617329

**Percentage Distribution of “COST A” per hectare of arecanut during 2020-21**



The following table illustrates the work participation of arecanut cultivation. It shows that out of 75.66 per cent of the total labour hours 15.78 % has been shared by females and 59.88 % has been shared by males.

**Table 26: Percentage of hired human labour hours to total human Labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	57	61.91	61.77	59.88
Female	15.94	30.68	38.37	15.78
<b>Total</b>	<b>72.94</b>	<b>92.59</b>	<b>100.14</b>	<b>75.66</b>

**Table 27: Cost of Cultivation of Arecanut per hectare (in Rs) during 2018-2019, 2019-2020 and 2020-2021**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	81305	102220	114869	100395
	2019-2020	98042	106313	106986	103454
	2020-2021	108323	143024	131789	127718
Cost 'B'	2018-2019	543961	497532	370244	463610
	2019-2020	591319	521878	530692	549618
	2020-2021	612084	603953	579542	598931
Cost 'C'	2018-2019	570143	518158	380209	481926
	2019-2020	621619	540505	539994	570114
	2020-2021	640711	620505	588669	617329

**Value of Out put**

**Table 28: Value of Output per hectare (in Rs) of Arecanut**

The estimated value of output per hectare is Rs.345986/- against the per hectare cost A of cultivation is Rs127718/-.

Holding Size Class			
Small	Medium	Large	All Sizes
261294	356753	416663	345986

## 2.4 Tapioca during 2020-21

Area under the crop in this study was 108.97 hectare from 566 holdings.

**Table 29: Area and Number of Holdings under Tapioca cultivation**

Holding size class	Sample Size	Area under the crop in the sample (ha)	Percentage area	Average Area per holding (ha)
Small	402	34.66	31.81	0.09
Medium	127	37.47	34.39	0.3
Large	37	36.84	33.81	1
<b>Total</b>	<b>566</b>	<b>108.97</b>	<b>100</b>	<b>0.19</b>

The average size of a selected holding is 0.19 hectare

## Cost of Cultivation

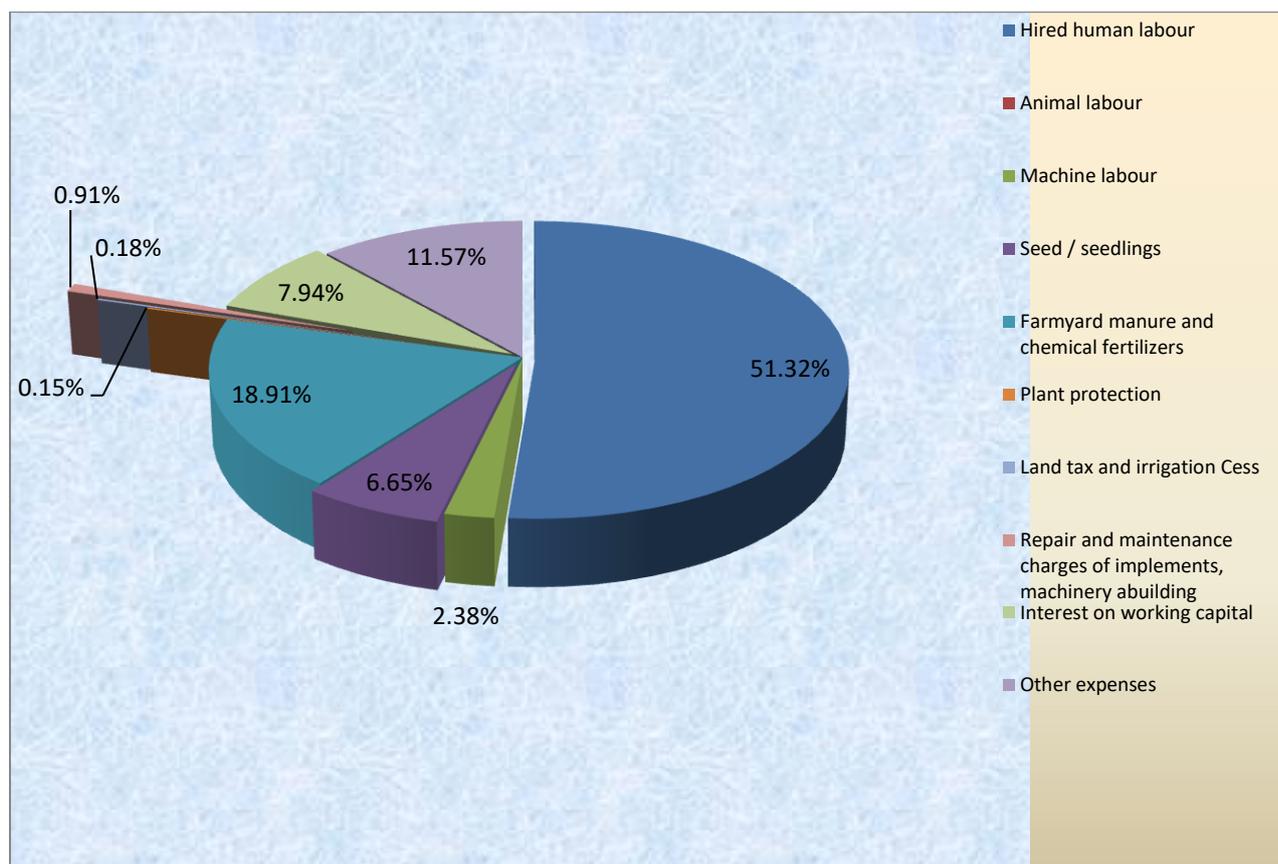
When Cost A is considered, per hectare cost of cultivation of tapioca is worked out as Rs.141117/- .In this cost A, hired human labour cost constituted 51.32% whereas farmyard manure and chemical fertilizers shares 18.91%. Interest on working capital 7.94% and other expenses contribute 11.57%.The cost of cultivation of Tapioca under different concepts is given below.

**Table 30: Cost of cultivation per hectare (in Rs) of Tapioca**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	66704	69617	80667	72426
2	Animal labour				
3	Machine labour	2014	2873	5096	3352
4	Seed / seedlings	9768	9774	8633	9386
5	Farmyard manure and chemical fertilizers	23648	26500	29723	26682
6	Plant protection	201	152	284	212
7	Land tax and irrigation Cess	367	267	133	254
8	Repair and maintenance charges of implements, machinery	3281	457	228	1278

	abuilding				
9	Interest on working capital	10233	10892	12440	11206
10	Other expenses	10689	13951	24030	16321
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>126904</b>	<b>134484</b>	<b>161235</b>	<b>141117</b>
12	Interest on fixed capital	5317	1756	476	2456
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>132221</b>	<b>136241</b>	<b>161710</b>	<b>143573</b>
14	Interest on land value	493274	373720	372981	411500
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>625495</b>	<b>509960</b>	<b>534691</b>	<b>555073</b>
16	Imputed value of household labour	57397	29560	20237	35263
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>682892</b>	<b>539520</b>	<b>554928</b>	<b>590336</b>

**Percentage Distribution of "COST A" per hectare of Tapioca during 2020-21**



The following table shows the percentage distribution of hired human labour hours engaged in tapioca cultivation.

**Table 31: Percentage of hired human labour hours to total human labour hours**

Sex	Holding Size Class			
	Small	Medium	Large	All Sizes
Male	47.34	59.79	68.53	58.07
Female	6.91	18.81	25.23	7.78
<b>Total</b>	<b>54.25</b>	<b>78.6</b>	<b>93.76</b>	<b>65.85</b>

In tapioca cultivation 58.07 % of the total human labour hours have been shared by hired male human labour.

**Table 32: Cost of cultivation of Tapioca per hectare (In Rs.) during 2018-19,2019-20 and 2020-21**

A comparative statement for 2018-19, 2019-20 and 2020-21 for cost of cultivation of different concept is given below.

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost "A"	2018-2019	114078	117134	101455	111688
	2019-2020	122440	120085	121482	121258
	2020-2021	126904	134484	161235	141117
Cost 'B'	2018-2019	548634	491816	315711	455456
	2019-2020	479395	529844	415868	477608
	2020-2021	625495	509960	534691	555073
Cost 'C'	2018-2019	600620	514480	328912	483318
	2019-2020	533041	557611	427191	508015
	2020-2021	682892	539520	554928	590336

**Value of Out put****Table 33: Value of Output per hectare (In Rs.) of Tapioca**

Holding Size Class			
Small	Medium	Large	All Sizes
338468	329595	317173	328218

The value of output for medium holding size class has slight variation. The value of output per hectare of Tapioca is estimated as Rs.328218/- whereas the cost of cultivation per hectare, the paid out cost actually increased by the cultivators is only Rs.141117/-.

**2.5 Banana during 2020-21**

To study the cost of cultivation on banana 553 sample holdings were selected by covering an area of 131.48 hectares under three different holding size classes with an average area per holding of 0.24 hectare.

**Table 34: Area and Number of holdings selected under Banana cultivation**

Size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage to Total area	Area per holding (ha)
Small	340	30.09	22.89	0.09
Medium	175	61.32	46.64	0.35
Large	38	40.07	30.48	1.05
<b>Total</b>	<b>553</b>	<b>131.48</b>	<b>100</b>	<b>0.24</b>

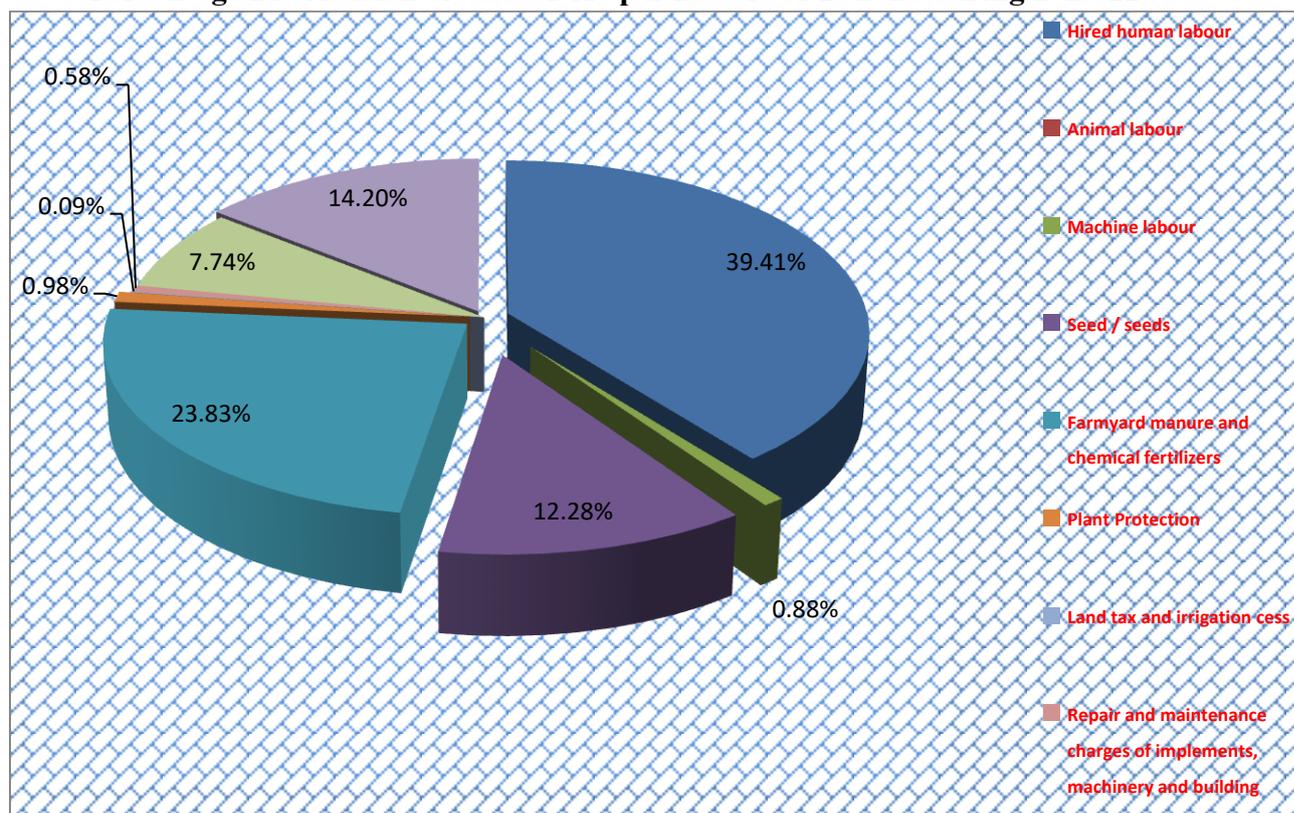
**Cost of Cultivation****Table 35: The Cost of cultivation per hectare (in Rs.) of Banana**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	84810	86928	106803	92500
2	Animal labour				
3	Machine labour	2319	1775	2342	2073
4	Seed / seedlings	28670	28647	29212	28825
5	Farmyard manure and chemical	55607	54397	58534	55935
6	Plant protection	3331	2183	1707	2301
7	Land tax and irrigation Cess	349	224	116	220
8	Repair and maintenance charges of implements, machinery and building	1267	2168	218	1368

9	Interest on working capital	17474	17393	19860	18163
10	Other expenses	32849	34933	31222	33325
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>226676</b>	<b>228648</b>	<b>250014</b>	<b>234710</b>
12	Interest on fixed capital	11322	3553	985	4549
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>237998</b>	<b>232201</b>	<b>250999</b>	<b>239259</b>
14	Interest on land value	492432	376495	485168	436150
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>730430</b>	<b>608696</b>	<b>736167</b>	<b>675409</b>
16	Imputed value of household labour	88521	43240	31273	49957
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>818951</b>	<b>651936</b>	<b>767440</b>	<b>725366</b>

As in the case of other crops, cost of cultivation of banana is also calculated at different cost concepts such as cost 'A', Cost 'B1', 'Cost 'B' and Cost 'C'. When Cost A is considered, cost of cultivation per hectare is Rs234710/- Out of this 39.41 % cost involved in hired human labour component, 23.83% cost for farmyard manure and chemical fertilizers and Seed/Seedlings constitute 12.28 % and other expenses shares 14.20%.

**Percentage Distribution of "COST A" per hectare of Banana during 2020-21**



In Banana cultivation male participation (59.38%) is higher than that of female (4.9%). The percentage distributions are as follows.

**Table 36: Percentage of hired human labour hours to the total human labour hours**

Sex	Holding Size Class			
	Small	Medium	Large	All Sizes
Male	44.2	60.28	72.18	59.38
Female	6.55	12.66	14.12	4.9
<b>Total</b>	<b>50.75</b>	<b>72.94</b>	<b>86.3</b>	<b>64.28</b>

**Table 37: Cost of Cultivation per hectare of Banana (In Rs.) during  
2018-19,2019-20 and 2020-21**

A comparative statement for 2018-19, 2019-20 and 2020-21 for cost of cultivation of different concept is given below.

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	203664	228718	209297	216796
	2019-2020	215424	212897	233637	219792
	2020-2021	226676	228648	250014	234710
Cost 'B'	2018-2019	609626	547813	781300	645337
	2019-2020	549279	539929	513505	533209
	2020-2021	730430	608696	736167	675409
Cost 'C'	2018-2019	682228	590088	801951	685479
	2019-2020	624090	579719	536369	575733
	2020-2021	818951	651936	767440	725366

**Value of out put****Table 38: Value of Output per hectare (In Rs.) of Banana**

Holding Size Class			
Small	Medium	Large	All Sizes
527522	486354	491372	497306

During 2020-21 per hectare value of output from banana cultivation is estimated out as Rs.497306/- whereas the cost A per hectare is Rs.234710/-.

**2.6 Pepper during 2020-21**

The monopoly of the state still continues in area and production of pepper in the country. Details of the holdings selected for the study is given below:

**Table 39: Area and number of holdings under Pepper cultivation**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	474	26.58	44.79	0.06
Medium	56	18.68	31.48	0.33
Large	12	14.09	23.74	1.17
<b>Total</b>	<b>542</b>	<b>59.34</b>	<b>100</b>	<b>0.11</b>

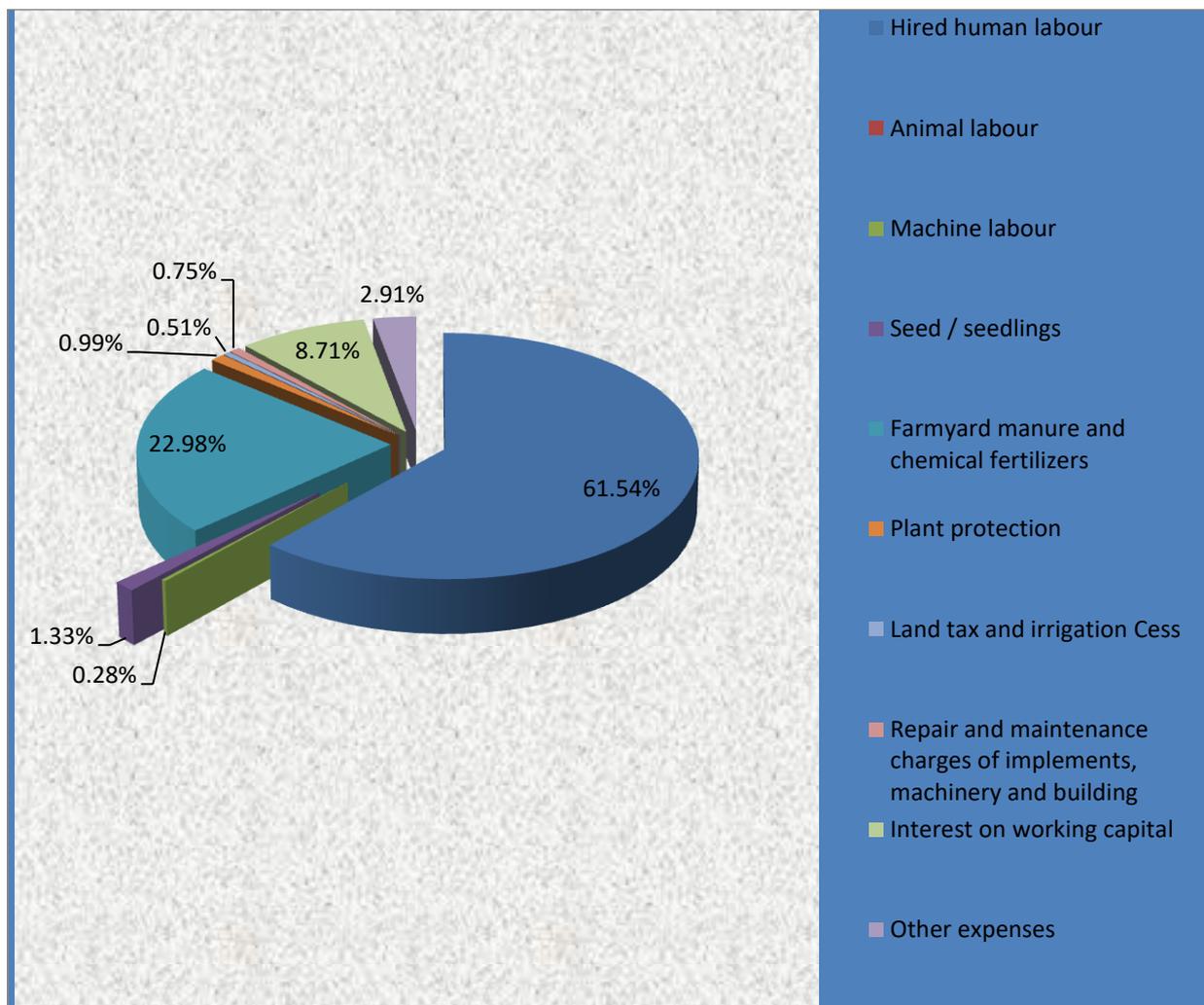
**Cost of cultivation**

The cultivation cost incurred for Pepper is entirely different when compared to the cost of Paddy and other seasonal crops. Hired human labour cost is 61.54% and the farmyard manure and chemical fertilizer cost is 22.98 %for pepper cultivation. Item wise expenses incurred under pepper cultivation are as follows:

**Table 40: Cost of cultivation per hectare (in Rs.) of Pepper**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	56751	61275	47877	56068
2	Animal labour				
3	Machine labour	177	153	550	258
4	Seed / seedlings	430	1874	1820	1214
5	Farmyard manure and chemical fertilizers	21286	19508	22160	20934
6	Plant protection	609	736	1681	903
7	Land tax and irrigation Cess	377	551	525	467
8	Repair and maintenance charges of implements, machinery and building	904	492	510	681
9	Interest on working capital	7925	8355	7409	7938
10	Other expenses	3506	2341	1431	2647
<b>11</b>	<b>Total Cost 'A' (1 to 10)</b>	<b>91965</b>	<b>95285</b>	<b>83963</b>	<b>91110</b>
12	Interest on fixed capital	11104	6240	2009	7414
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>103069</b>	<b>101525</b>	<b>85972</b>	<b>98524</b>
14	Interest on land value	623695	563861	474638	569477
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>726764</b>	<b>665386</b>	<b>560610</b>	<b>668001</b>
16	Imputed value of household labour	39794	13511	13791	25349
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>766558</b>	<b>678897</b>	<b>574401</b>	<b>693350</b>

**Percentage Distribution of “COST A” per hectare of Pepper during 2020-21**



**Table 41: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	52.81	64.38	64.76	58.61
Female	6.44	24.07	20.31	6.8
<b>Total</b>	<b>59.25</b>	<b>88.45</b>	<b>85.07</b>	<b>65.41</b>

**Table 42: Cost of cultivation of Pepper per hectare (In Rs.) during 2018-19, 2019-20 and 2020-21**

A comparative statement for 2018-19, 2019-20 and 2020-21 for cost of cultivation of different concept is given below.

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	79465	81478	69450	78925
	2019-2020	88199	83543	69935	82583
	2020-2021	91965	95285	83963	91110
Cost 'B'	2018-2019	592925	526160	254266	514647
	2019-2020	539744	408532	232322	426577
	2020-2021	726764	665386	560610	668001
Cost 'C'	2018-2019	633943	544400	270261	541938
	2019-2020	581151	427000	245996	453850
	2020-2021	766558	678897	574401	693350

### Value of out put

**Table 43: Value of Output per Hectare (In Rs.) of Pepper**

Holding Size Class			
Small	Medium	Large	All Sizes
225235	198253	187173	207707

During 2020-21 it is estimated that Rs.207707/- has been received as value of Output from per hectare pepper cultivation whereas cost A for Cultivation is Rs.91110/-.

### 2.7 Ginger during 2020-21

For the cost of cultivation study during 2020-21, 444 sample holdings were selected for the crop ginger and total area covered for study is 34.66 hectare.

**Table 44: Area and number of holdings under Ginger cultivation**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage to total Area	Average area per holding (ha)
Small	397	16.84	48.59	0.04
Medium	41	11.74	33.87	0.29

Large	6	6.07	17.51	1.01
<b>Total</b>	<b>444</b>	<b>34.66</b>	<b>100</b>	<b>0.08</b>

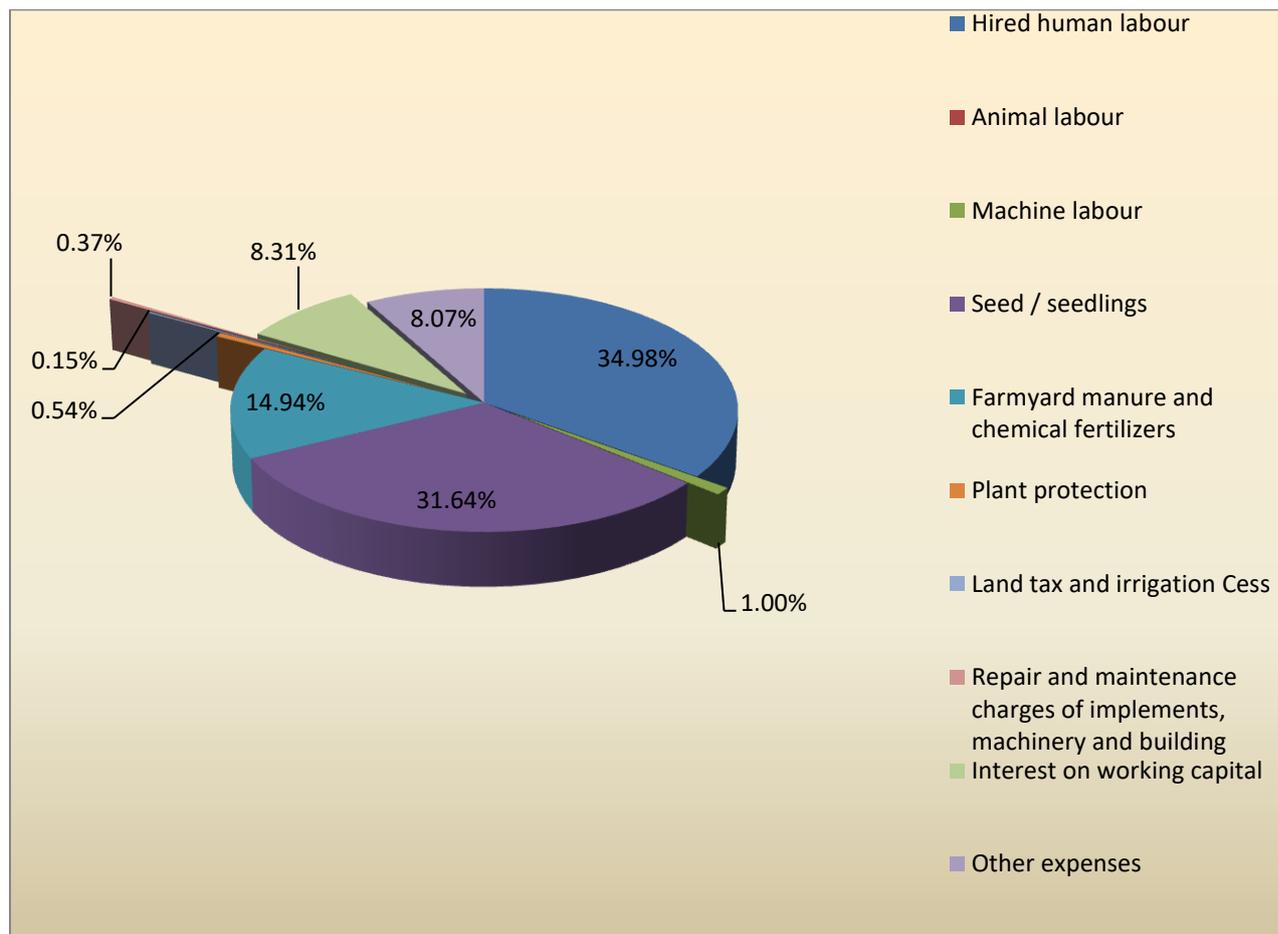
### Cost of cultivation

Among various components of cost of ginger cultivation, hired human labour, Seed/seedling, fertilizer etc. are the top three components. Hired human labour alone accorded 34.98 % of the total cost. Seed/seedling and farmyard manure and fertilizer share is 31.64% and 14.94% of total cost of cultivation per hectare.

**Table 45: Cost of Cultivation per hectare (in Rs.) of Ginger**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	66419	86268	46778	69702
2	Animal labour				
3	Machine labour	460	4203	1927	1985
4	Seed / seedlings	58571	73328	55546	63041
5	Farmyard manure and chemical fertilizers	26903	31008	35318	29769
6	Plant protection	557	1595	1528	1079
7	Land tax and irrigation cess	358	319	38	289
8	Repair and maintenance charges of implements, machinery and building	1209	419	43	737
9	Interest on working capital	15291	19640	14110	16557
10	Other expenses	9337	14792	37313	16087
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>179105</b>	<b>231572</b>	<b>192601</b>	<b>199246</b>
12	Interest on fixed capital	3862	1136	8071	3675
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>182967</b>	<b>232708</b>	<b>200672</b>	<b>202921</b>
14	Interest on land value	490703	325376	197468	383308
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>673670</b>	<b>558084</b>	<b>398140</b>	<b>586229</b>
16	Imputed value of household labour	70159	27429	13346	45727
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>743829</b>	<b>585513</b>	<b>411486</b>	<b>631956</b>

**Percentage Distribution of “COST A” per hectare of Ginger during 2020-21**



**Table 46: Percentage distribution of hired human labour hours to total Human labour hours**

sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	40.56	46.49	25.86	41.1
Female	13.01	36.94	43.07	22.76
<b>Total</b>	<b>53.57</b>	<b>83.43</b>	<b>68.93</b>	<b>63.86</b>

**Table 47: Cost of cultivation of Ginger per hectare (In Rs.) during 2018-19, 2019-20 and 2020-21**

A comparative statement for 2018-19, 2019-20&2020-21 for cost of cultivation of different concept is given below.

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	174603	215447	279917	208761

	2019-2020	188845	267686	114805	204188
	2020-2021	179105	231572	192601	199246
<b>Cost 'B'</b>	2018-2019	653462	448887	347564	526549
	2019-2020	529993	472941	219931	464225
	2020-2021	673670	558084	398140	586229
<b>Cost 'C'</b>	2018-2019	715528	476332	356656	566898
	2019-2020	598898	503352	224575	510544
	2020-2021	743829	585513	411486	631956

### Value of Out put

**Table 48: Value of Out put per hectare (In Rs.) of Ginger**

Holding Size Class			
Small	Medium	Large	All Sizes
414279	460494	806847	498727

The per hectare value of output estimated from Ginger cultivation is Rs.498727/- and the cost of cultivation per hectare is Rs199246/- excluding interest on fixed capital, land value and household labour.

### 2.8 Turmeric during 2020-21

Sample holdings selected for the cost of cultivation study of turmeric is 474 which distributed among the three holding size classes and total area within the sample holding was 29.68 hectares.

**Table 49: Area and Number of holdings under Turmeric cultivation**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage to total area	Average area per holding (ha)
Small	444	19.3	65.03	0.04
Medium	26	6.93	23.35	0.27
Large	4	3.44	11.59	0.86
<b>Total</b>	<b>474</b>	<b>29.68</b>	<b>100</b>	<b>0.06</b>

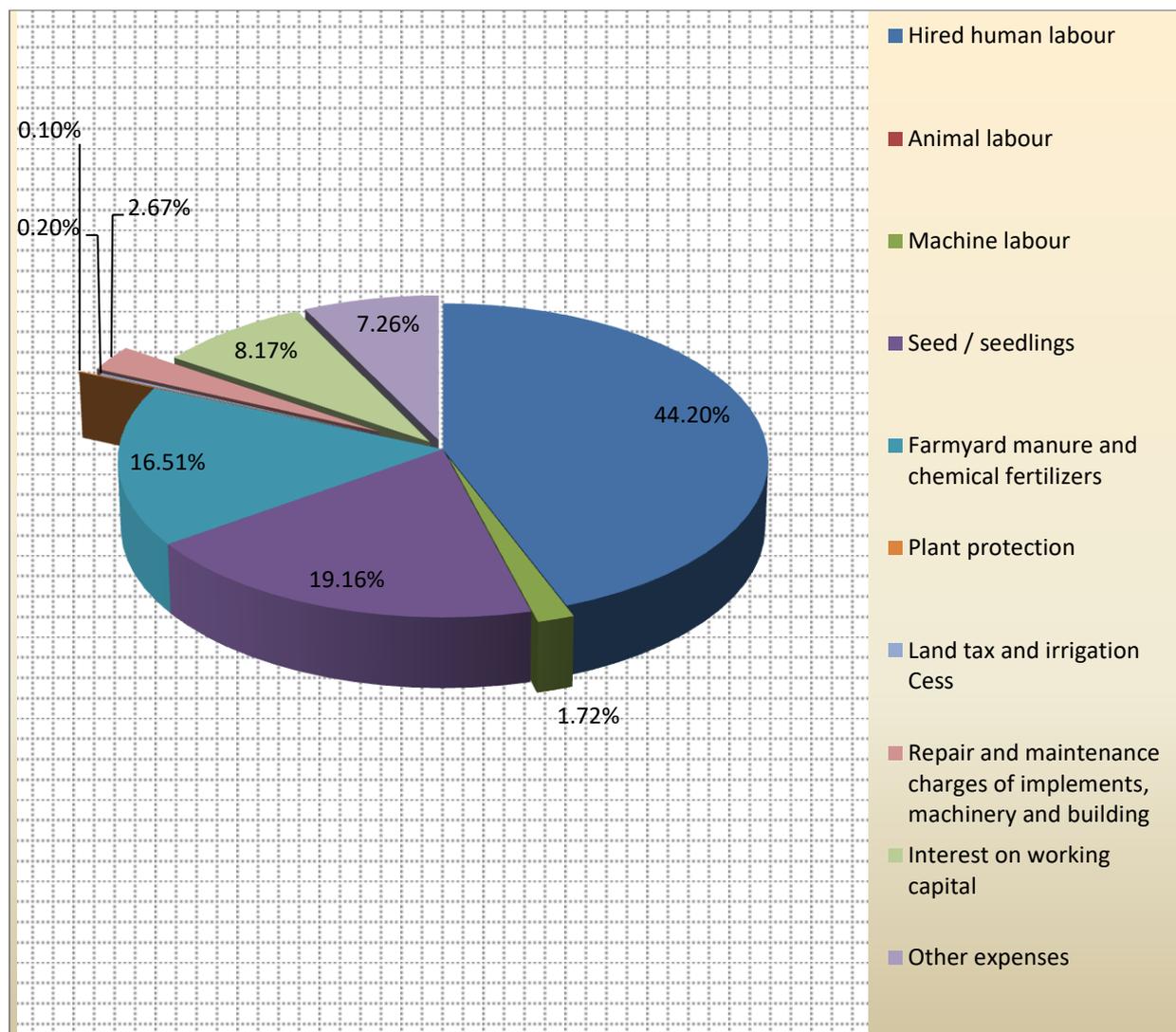
### Cost of cultivation

The cash and other expenses incurred under Turmeric cultivation is estimated as Rs.141668/-per hectare. Out of this 44.20 % is for hired human labour, 19.16% for seed/seedlings and 16.51% for farmyard manure and fertilizer cost respectively.

**Table 50: Cost of Cultivation per hectare (in Rs.) of Turmeric**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	57026	75087	68782	62607
2	Animal labour				
3	Machine labour	515	6128	5812	2441
4	Seed / seedlings	26756	31741	20167	27156
5	Farmyard manure and chemical fertilizers	23300	22834	25078	23397
6	Plant protection	151	175		139
7	Land tax and irrigation Cess	329	159	291	285
8	Repair and maintenance charges of implements, machinery and building	1032	319	26153	3779
9	Interest on working capital	10775	13596	11984	11574
10	Other expenses	8654	13245	13512	10290
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>128538</b>	<b>163284</b>	<b>171779</b>	<b>141668</b>
12	Interest on fixed capital	3044	3713	18411	4982
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>131582</b>	<b>166997</b>	<b>190190</b>	<b>146650</b>
14	Interest on land value	546699	297737	365792	467573
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>678281</b>	<b>464734</b>	<b>555982</b>	<b>614223</b>
16	Imputed value of household labour	69910	26771	18726	53899
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>748191</b>	<b>491505</b>	<b>574708</b>	<b>668122</b>

**Percentage Distribution of “COST A” per hectare of Turmeric during 2020-21**



The following table illustrates the percentage distribution of hired human labour hours to the total human labour hours engaged in turmeric cultivation.

**Table 51: Percentage of Hired human labour hours to the total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	35	48.45	51.83	39.33
Female	13.13	33.93	36.21	14.92
<b>Total</b>	<b>48.13</b>	<b>82.38</b>	<b>88.04</b>	<b>54.25</b>

**Table 52: Cost of cultivation of Turmeric per hectare (In Rs.) during 2018-19, 2019-20 and 2020-21**

A comparative statement for 2018-19, 2019-20 and 2020-21 for cost of cultivation of different concept is given below.

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	131018	142655	181133	140032
	2019-2020	132781	116816	170771	129665
	2020-2021	128538	163284	171779	141668
Cost 'B'	2018-2019	537428	468616	362476	498262
	2019-2020	447250	571215	316457	480656
	2020-2021	678281	464734	555982	614223
Cost 'C'	2018-2019	609395	496605	376431	551465
	2019-2020	521472	604094	367833	540011
	2020-2021	748191	491505	574708	668122

In 2020-21 cost of cultivation of turmeric per hectare is increased when compared to previous years.

### Output

The per hectare value of output received from turmeric cultivation is estimated as Rs287974/- during the year 2020-21 and cost of cultivation is estimated as Rs141668/- excluding Cost B and C

**Table 53: Value of Out put per hectare (In Rs.) of Turmeric**

Holding Size Class			
Small	Medium	Large	All Sizes
300154	301697	192006	287974

## 2.9 Pineapple during 2020-21

In the cost of cultivation study on pineapple 206 sample holdings were selected by covering area 508.06 hectares. Details of these holdings are given below

**Table 54: Area and Number of holdings selected under Pineapple cultivation**

Size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage to Total area	Area per holding (ha)
Small	68	4.35	0.86	0.06
Medium	48	19.76	3.89	0.41
Large	90	483.95	95.25	5.38
<b>Total</b>	<b>206</b>	<b>508.06</b>	<b>100</b>	<b>2.47</b>

### Cost of Cultivation

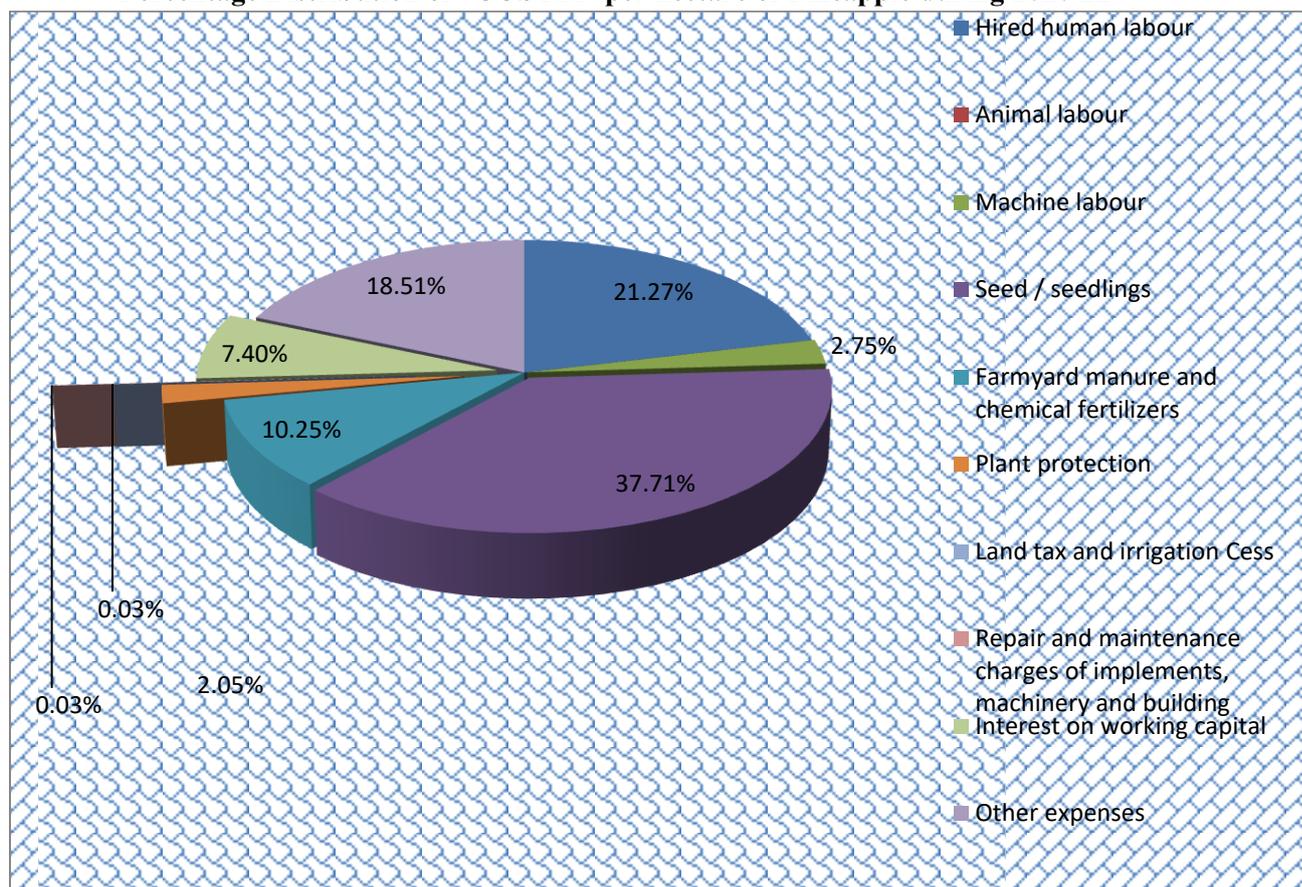
As in the case of other crops, cost of cultivation of pineapple is also calculated at different cost concepts such as cost 'A', Cost 'B1', 'Cost 'B' and Cost 'C'. When Cost A is considered, cost of cultivation per hectare of pineapple is 240287/-.

**Table 55: The Cost of cultivation per hectare (in Rs.) of Pineapple**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	60103	61403	50615	51116
2	Animal labour				
3	Machine labour	1901	5206	6719	6619
4	Seed / seedlings	67826	92152	90746	90604
5	Farmyard manure and chemical fertilizers	15502	37417	24184	24624
6	Plant protection	2211	4776	4947	4917
7	Land tax and irrigation Cess	339	293	64	75
8	Repair and maintenance charges	1875	554	42	78

	of implements, machinery and building				
9	Interest on working capital	14754	20095	17721	17788
10	Other expenses	16382	23844	45561	44466
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>180893</b>	<b>245740</b>	<b>240599</b>	<b>240287</b>
12	Interest on fixed capital	6543	1573	331	433
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>187436</b>	<b>247313</b>	<b>240930</b>	<b>240720</b>
14	Interest on land value	670821	736872	611462	616847
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>858257</b>	<b>984185</b>	<b>852392</b>	<b>857567</b>
16	Imputed value of household labour	30754	13381	9039	9393
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>889011</b>	<b>997566</b>	<b>861431</b>	<b>866960</b>

Percentage Distribution of "COST A" per hectare of Pineapple during 2020-21



The hired human labour cost accounted as 21.27% whereas farmyard manure and chemical fertilizers cost as 10.25 percent of the total Cost 'A'. Seed/seedling cost constitutes to 37.71% of the total cost 'A'.

In Pineapple cultivation, male participation is higher than that of female. The percentage distributions of these facts are as follows

**Table: 56 Percentage of hired human labour hours to the total human labour hours**

Sex	Holding Size Class			
	Small	Medium	Large	All Sizes
Male	58.18	69.59	72.18	71.88
Female	13.25	30.13	32.31	13.19
<b>Total</b>	<b>71.43</b>	<b>99.72</b>	<b>104.49</b>	<b>85.07</b>

**Table: 57 Cost of cultivation of Pineapple per hectare (in Rs) during 2018-19, 2019-20 & 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	178221	214237	211210	211075
	2019-2020	188043	231501	248962	245327
	2020-2021	180893	245740	240599	240287
Cost 'B'	2018-2019	495851	827211	866481	861138
	2019-2020	452151	612561	724492	706782
	2020-2021	858257	984185	852392	857567
Cost 'C'	2018-2019	530351	845306	870825	866468
	2019-2020	496939	628041	740609	722762
	2020-2021	889011	997566	861431	866960

#### Value of out put

**Table 58: Value of Output per hectare (In Rs.) of Pineapple**

Holding Size Class			
Small	Medium	Large	All Sizes
314498	379855	378649	378147

During 2020-21 per hectare value of output from pineapple cultivation is estimated as Rs.378147/- and the cost of cultivating per hectare of pineapple is Rs.240287/-

### 2.10.1 Bitter Gourd- Autumn during 2020-21

For this study details of holding selected and area coverage are given below. The data collected from 220 sample holdings by covering 24.11 hectares and the average area per holding is 0.11 hectare.

**Table 59 - Area and number of holdings under Bitter gourd Autumn**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
Small	184	11.08	45.96	0.06
Medium	33	9.39	38.95	0.28
Large	3	3.64	15.1	1.21
<b>Total</b>	<b>220</b>	<b>24.11</b>	<b>100</b>	<b>0.11</b>

### Cost of cultivation

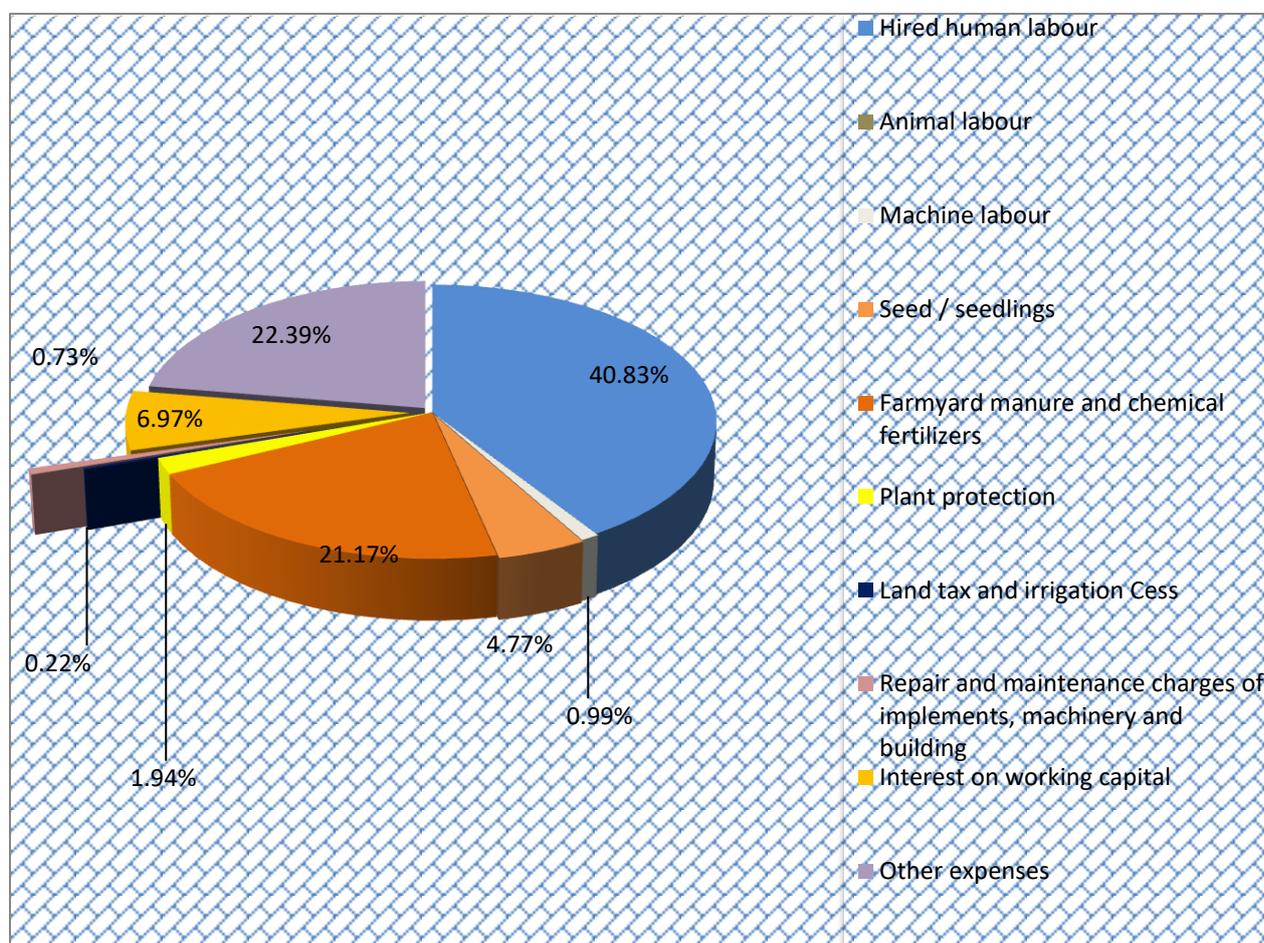
When Cost A is considered about 40.83% of cost constitutes to hired human labour, Interest on working capital shares 6.97% and farmyard manure and chemical fertilizers accounts to 21.17%. Total cost for cultivating one hectare of Bitter gourd in autumn season is Rs157599/-.

**Table 60- Cost of Cultivation per hectare(in Rs.) of Bitter Gourd (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	61659	70964	55438	64343
2	Animal labour				
3	Machine labour	1382	2057	803	1558
4	Seed / seedlings	7010	7213	9798	7510
5	Farmyard manure and chemical fertilizers	36607	34536	20531	33371
6	Plant protection	3125	2626	3952	3056
7	Land tax and irrigation cess	274	339	582	346
8	Repair and maintenance charges of implements, machinery and building	1621	636	1002	1144

9	Interest on working capital	10978	11740	9052	10984
10	Other expenses	42407	34618	15369	35287
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>165063</b>	<b>164729</b>	<b>116527</b>	<b>157599</b>
12	Interest on fixed capital	5331	6963	27627	9337
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>170394</b>	<b>171692</b>	<b>144154</b>	<b>166936</b>
14	Interest on land value	329637	401549	453966	376435
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>500031</b>	<b>573241</b>	<b>598120</b>	<b>543371</b>
16	Imputed value of household labour	95758	59117	15029	69286
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>595789</b>	<b>632358</b>	<b>613149</b>	<b>612657</b>

**Percentage Distribution of "COST A" per hectare of Bittergourd (Autumn) during 2020-21**



**Table 61: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	33.62	36.76	36.04	35.08
Female	8.76	24.08	41.61	15.87
<b>Total</b>	<b>42.38</b>	<b>60.84</b>	<b>77.65</b>	<b>50.95</b>

In Bitter Gourd (Autumn) cultivation 15.87% of total labour hours shares to female participation of hired human labour hours.

**Table 62: Cost of cultivation of Bitter Gourd -Autumn per hectare (in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	150625	104947	178492	135154
	2019-2020	176395	146454	109593	145821
	2020-2021	165063	164729	116527	157599
Cost 'B'	2018-2019	471930	446171	545175	474786
	2019-2020	496926	545707	205060	447524
	2020-2021	500031	573241	598120	543371
Cost 'C'	2018-2019	574506	489897	562451	533031
	2019-2020	616443	599926	212861	508772
	2020-2021	595789	632358	613149	612657

**Table: 63 : Value of product and by-product per hectare (in Rs.) of Bitter Gourd - Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
387297	391030	432861	395636

Value of product per hectare of Bitter gourd in Autumn season is estimated as Rs.395636/-whereas the cost of cultivation per hectare is Rs.157599/-.

### 2.10.2 Bitter Gourd –Winter during 2020-21

During 2020-21 Cost of cultivation study on Bitter gourd(Winter) season, 280 sample holdings by covering 29.45 hectare selected and the average area per holding covers to 0.11 hectare

**Table 64 – Area and number of holdings under Bitter Gourd (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	235	15.08	51.21	0.06
Medium	43	11.74	39.86	0.27
Large	2	2.63	8.93	1.32
<b>Total</b>	<b>280</b>	<b>29.45</b>	<b>100</b>	<b>0.11</b>

### Cost of Cultivation

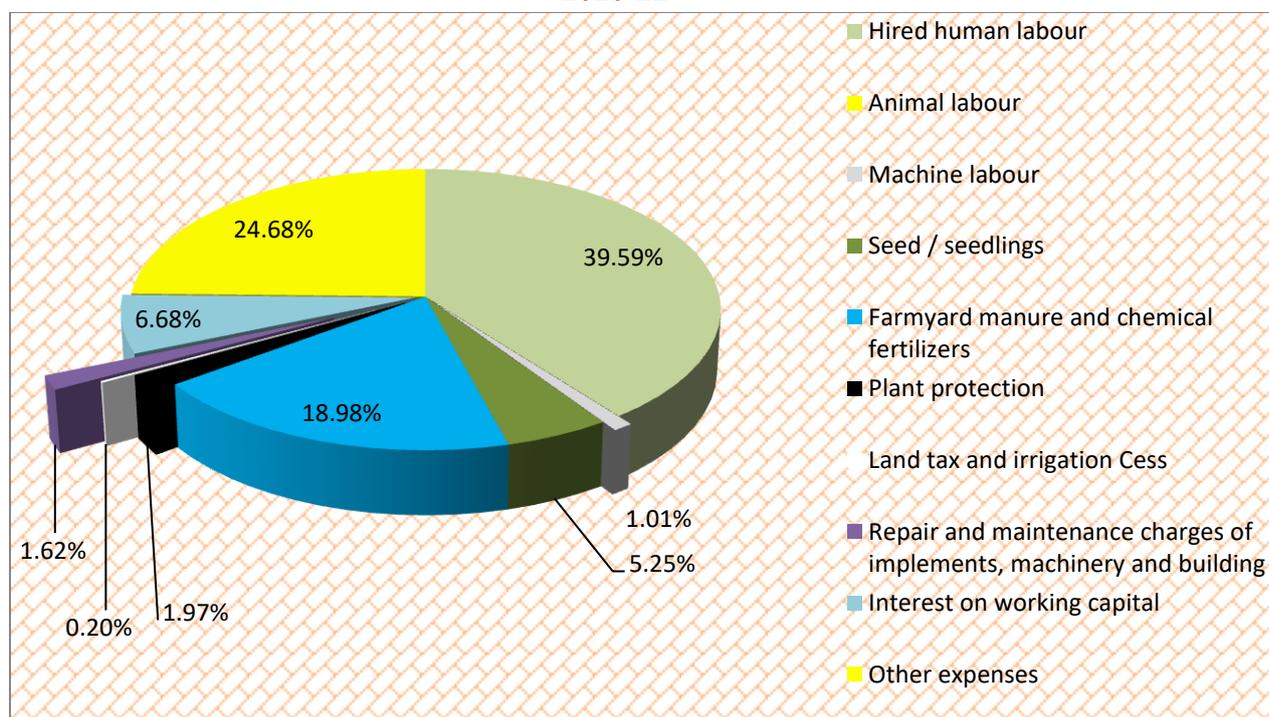
In Cost A, the major share of the cost component was hired human labour. It constitutes 39.59%. Also farmyard manure and chemical fertilizers account 18.98%. Other expense account was 24.68%. By considering the various cost component of Bitter gourd (Winter) cultivation, per hectare cost calculated as Rs.146981/-

**Table 65 : Cost of cultivation per hectare(in Rs.) of Bitter Gourd (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	55629	64336	45486	58193
2	Animal labour				
3	Machine labour	1043	2400		1490
4	Seed / seedlings	6928	8019	10944	7721

5	Farmyard manure and chemical fertilizers	34083	23629	11514	27899
6	Plant protection	3115	2615	2907	2897
7	Land tax and irrigation Cess	380	192	266	295
8	Repair and maintenance charges of implements, machinery and building	1627	3810	380	2386
9	Interest on working capital	10080	10100	7085	9820
10	Other expenses	39621	37619	11157	36280
11	<b>Total Cost 'A' (1-10)</b>	152506	152720	89739	146981
12	Interest on fixed capital	11411	12204	6036	11248
13	Cost 'B1' (11+12)	163917	164924	95775	158229
14	Interest on land value	376327	475168	360782	414339
15	<b>Cost 'B' (13+14)</b>	540244	640092	456557	572568
16	Imputed value of household labour	111351	52534	13542	79166
17	<b>Cost 'C' (15+16)</b>	651595	692626	470099	651734

**Percentage Distribution of "COST A" per hectare of Bittergourd (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Bitter gourd (Winter) cultivation shown below reveals that 10.94% of work shared by Female whereas percentage share to male workers is 31.41%.

**Table 66 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	27.3	35.31	54.17	31.41
Female	6.37	23.15	35.35	10.94
<b>Total</b>	<b>33.67</b>	<b>58.46</b>	<b>89.52</b>	<b>42.35</b>

**Table: 67 Cost of cultivation of Bitter Guard -Winter per hectare (in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	166455	130308	112758	145423
	2019-2020	164815	157757	110817	144796
	2020-2021	152506	152720	89739	146981
Cost 'B'	2018-2019	432542	340296	253916	374755
	2019-2020	440252	465598	215733	376233
	2020-2021	540244	640092	456557	572568
Cost 'C'	2018-2019	534725	391432	276196	446834
	2019-2020	557718	524620	234095	440969
	2020-2021	651595	692626	470099	651734

**Output****Table: 68 - Value of Product and By product per hectare (in Rs)of Bitter Gourd (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
368808	387408	180348	359384

**2.10.3 Bitter Gourd -Summer during 2020-21**

For the cost of cultivation study on Bitter gourd(summer) during 2020-21 the total number of sample holdings selected was 219. The details of these holdings are presented below:

**Table 69: Area and number of holdings under Bitter Gourd-(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	197	8.97	54.9	0.05
Medium	20	5.34	32.68	0.27
Large	2	2.02	12.36	1.01
<b>Total</b>	<b>219</b>	<b>16.34</b>	<b>100</b>	<b>0.07</b>

The total area under cultivation in the selected sample holdings covers 16.34 hectares and the average size of a holding is 0.07 hectare

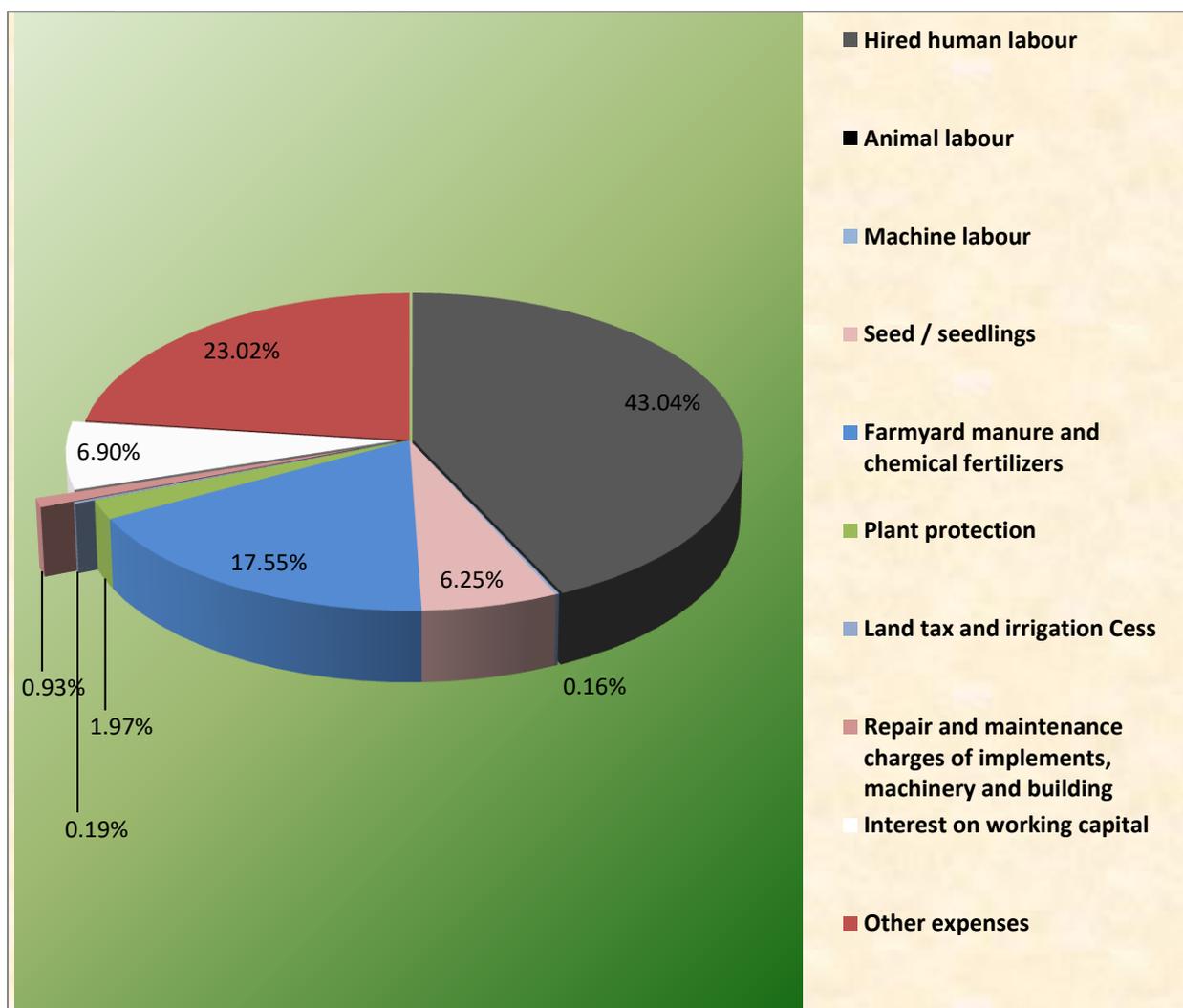
## Cost of Cultivation

Cost of cultivation of Bitter gourd(Summer) per hectare is estimated as Rs.138805/- when cost 'A' is considered. Hired human labour gives a share of 43.04 % and other expense gives 23.02%. Component wise holding size class details are presented below:

**Table 70: Cost of Cultivation per hectare(in Rs.) of Bitter Gourd (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	56591	69948	46782	59744
2	Animal labour				
3	Machine labour	334	126		225
4	Seed / seedlings	8529	7704	11856	8671
5	Farmyard manure and chemical fertilizers	27653	22310	15166	24359
6	Plant protection	2994	2277	2766	2731
7	Land tax and irrigation Cess	272	235	247	257
8	Repair and maintenance charges of implements, machinery and building	2015	419	395	1293
9	Interest on working capital	9610	10236	7657	9573
10	Other expenses	31179	41932	9030	31952
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>139177</b>	<b>155187</b>	<b>93899</b>	<b>138805</b>
12	Interest on fixed capital	18366	5215	6817	12635
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>157543</b>	<b>160402</b>	<b>100716</b>	<b>151440</b>
14	Interest on land value	373514	283679	384840	345536
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>531057</b>	<b>444081</b>	<b>485556</b>	<b>496976</b>
16	Imputed value of household labour	120153	90240	8849	96581
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>651210</b>	<b>534321</b>	<b>494405</b>	<b>593557</b>

**Percentage Distribution of “COST A” per hectare of Bitter gourd (Summer) during 2020-21**



In Bitter gourd (Summer) cultivation male labour participation accounted as 31.03% of the total labour hours. Details are given below:

**Table 71: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	28.84	30.38	55.74	31.03
Female	4.3	12.43	40.37	7.03
<b>Total</b>	<b>33.14</b>	<b>42.81</b>	<b>96.11</b>	<b>38.06</b>

**Table:72 Cost of cultivation of Bitter Gourd -Summer per hectare(in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	175795	139160	178334	164070
	2019-2020	159742	150292		156830
	2020-2021	139177	155187	93899	138805
Cost 'B'	2018-2019	400373	342634	921094	408695
	2019-2020	391954	374825		386678
	2020-2021	531057	444081	485556	496976
Cost 'C'	2018-2019	528406	438626	1042247	526001
	2019-2020	530618	454667		507216
	2020-2021	651210	534321	494405	593557

**Table 73: Value of Product and by product per hectare(in Rs) of Bitter Gourd (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
357754	355501	160649	332599

**2.11.1 Cowpea- Autumn during 2020-21**

Sample of holding selected and area coverage for the study was 229 holdings by covering 26.68 hectares and the average area per holding was 0.12 hectare.

**Table 74 - Area and number of holdings under Cowpea Autumn**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
Small	189	11.97	44.87	0.06
Medium	36	10.67	39.99	0.3
Large	4	4.05	15.18	1.01
<b>Total</b>	<b>229</b>	<b>26.68</b>	<b>100</b>	<b>0.12</b>

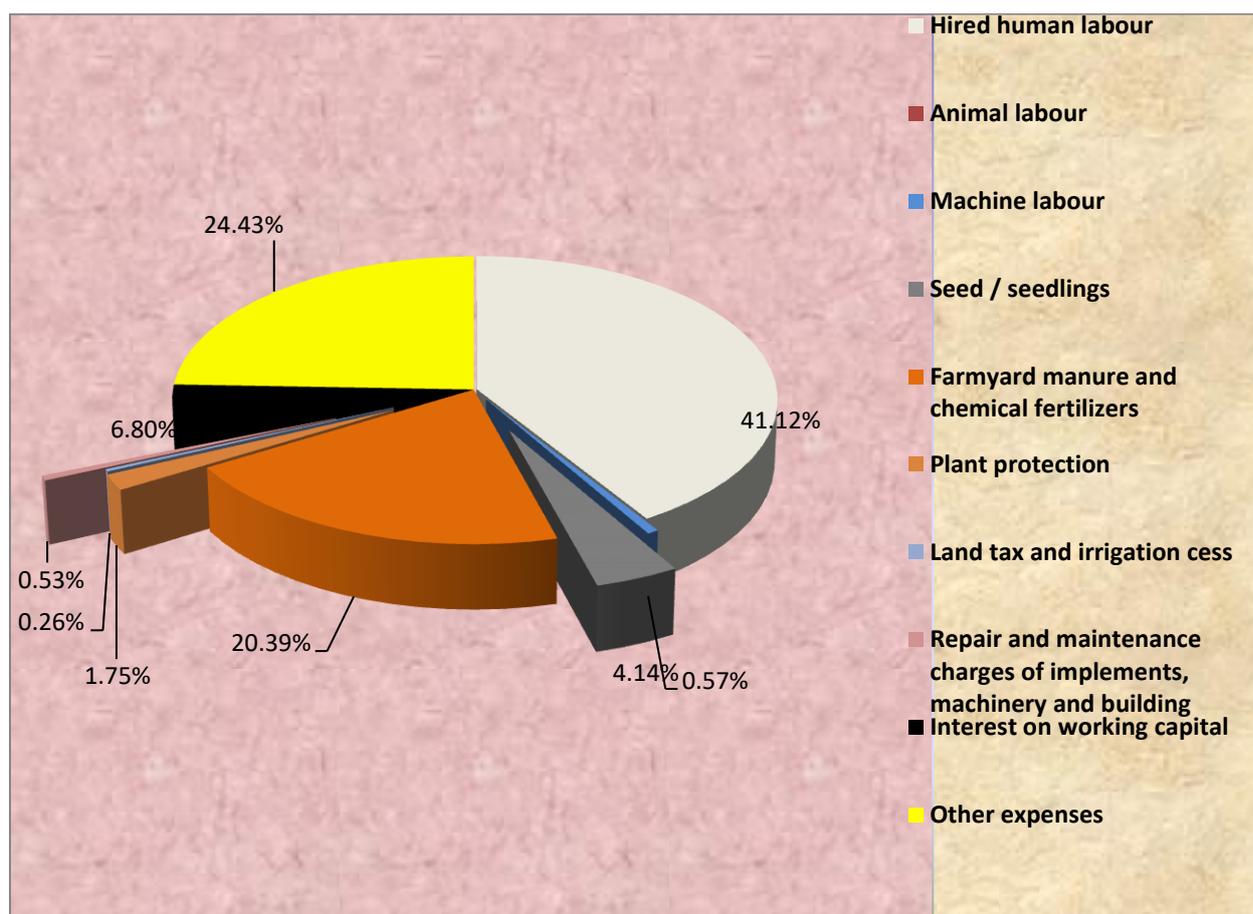
**Cost of cultivation**

When Cost A is considered about 41.12 percent of cost constitutes to hired human labour, and farmyard manure and chemical fertilizers accounts to 20.39%. But the other expenses account a share of 24.43%.

**Table 75- Cost of Cultivation per hectare (in Rs.) of Cowpea (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	58263	67979	73377	64441
2	Animal labour				
3	Machine labour	858	1289		900
4	Seed / seedlings	8047	6047	3083	6494
5	Farmyard manure and chemical fertilizers	29685	34846	31036	31953
6	Plant protection	2940	2477	2849	2741
7	Land tax and irrigation cess	345	266	984	410
8	Repair and maintenance charges of implements, machinery and building	1253	397	756	836
9	Interest on working capital	9979	11264	11034	10653
10	Other expenses	38420	39828	33861	38291
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>149790</b>	<b>164393</b>	<b>156980</b>	<b>156719</b>
12	Interest on fixed capital	3793	4954	609	3775
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>153583</b>	<b>169348</b>	<b>157589</b>	<b>160494</b>
14	Interest on land value	361794	335439	552270	380157
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>515377</b>	<b>504786</b>	<b>709859</b>	<b>540651</b>
16	Imputed value of household labour	93285	63776	35425	72709
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>608662</b>	<b>568562</b>	<b>745284</b>	<b>613360</b>

**Percentage Distribution of “COST A” per hectare of cowpea (Autumn) during 2020-21**



**Table 76: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	33.46	36.97	49.62	36.75
Female	10.03	17.54	26.11	10.92
<b>Total</b>	<b>43.49</b>	<b>54.51</b>	<b>75.73</b>	<b>47.67</b>

In Cowpea (Autumn) cultivation 36.75% of total labour hours goes to males.

**Table:77 Cost of cultivation of Cowpea -Autumn per hectare(in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	142374	107244	124681	126006
	2019-2020	150684	146396	119580	143289
	2020-2021	149790	164393	156980	156719
Cost 'B'	2018-2019	559308	350183	666701	497994
	2019-2020	469795	629294	312034	500247
	2020-2021	515377	504786	709859	540651
Cost 'C'	2018-2019	651225	394992	749909	570513
	2019-2020	573100	674662	322848	564618
	2020-2021	608662	568562	745284	613360

**Table: 78 Value of product and by-product per hectare (in Rs.) of Cowpea-Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
381757	346707	281997	352608

### 2.11.2 Cowpea –Winter during 2020-21

During 2020-21 Cost of cultivation study on Cowpea (winter) was conducted in 312 holdings by covering 32.11 hectare of land. Details of these holdings are given below:

**Table 79 – Area and number of holdings under Cowpea Winter**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Average area per holding (ha)
Small	263	16.38	51.01	0.06
Medium	48	14.92	46.47	0.31
Large	1	0.81	2.52	0.81
<b>Total</b>	<b>312</b>	<b>32.11</b>	<b>100</b>	<b>0.1</b>

**Cost of Cultivation**

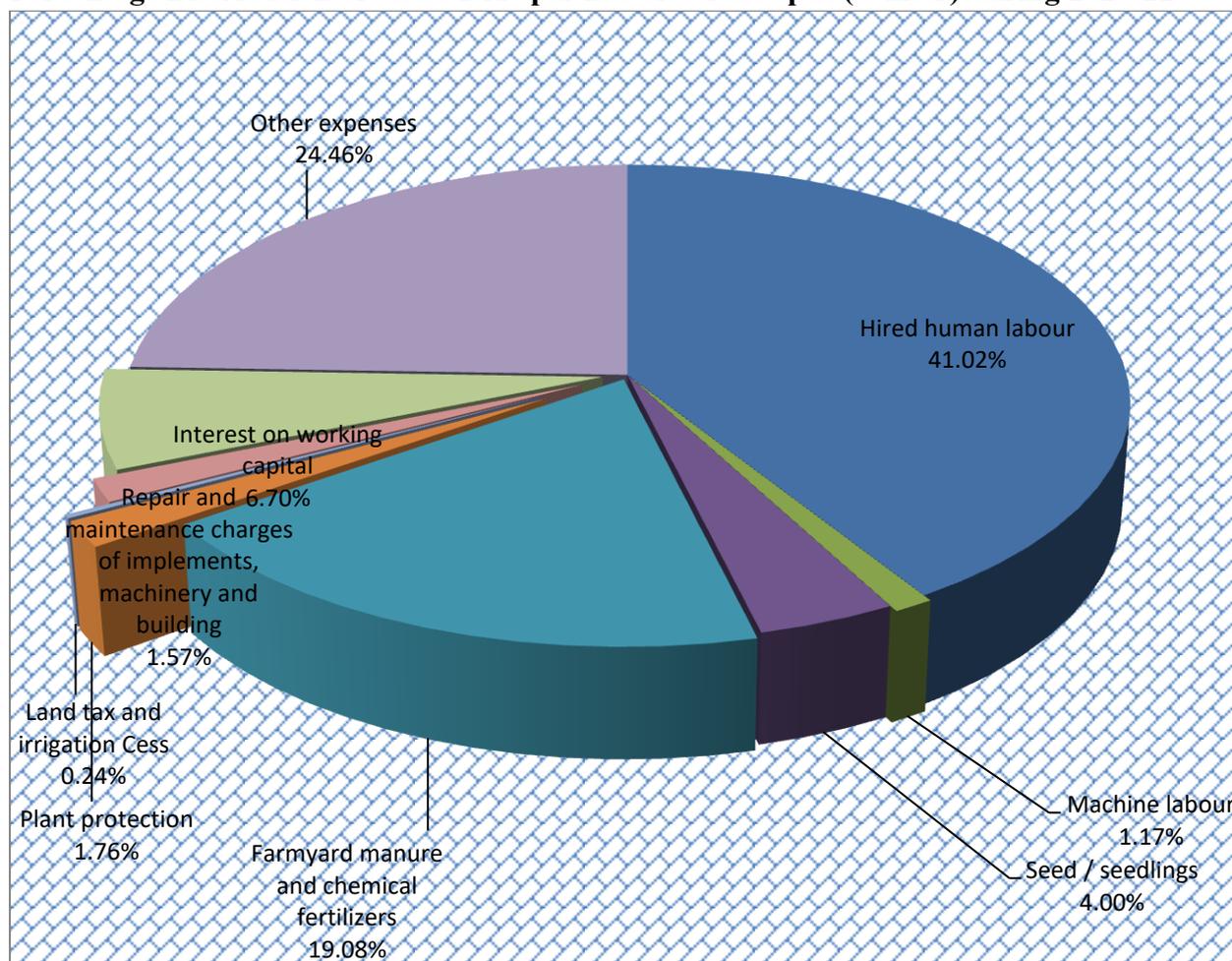
In Cost A, the major share of the cost component was hired human labour. It constitutes 41.02%. and farmyard manure and chemical fertilizers which accounted 19.08% respectively. Interest on working capital was 6.70%. The share of other expenses contributes 24.46 %. By considering the various cost component of Cowpea (winter) cultivation per hectare cost calculated as Rs.148688/-.

**Table 80– Cost of cultivation per hectare (in Rs.) of Cowpea (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	53298	67136	103283	60987
2	Animal labour				
3	Machine labour	604	2006	19760	1738
4	Seed / seedlings	6372	5409	7410	5951
5	Farmyard manure and chemical fertilizers	29860	27520	14079	28375
6	Plant protection	2771	2587		2615
7	Land tax and irrigation Cess	433	304		362
8	Repair and maintenance charges of implements, machinery and	3920	708		2329

	building				
9	Interest on working capital	9290	10466	14453	9967
10	Other expenses	34941	36550	61750	36364
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>141489</b>	<b>152686</b>	<b>220735</b>	<b>148688</b>
12	Interest on fixed capital	20740	7883	1056	14272
13	Cost 'B1' (11+12)	162229	160568	221791	162961
14	Interest on land value	375461	256032	59280	312005
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>537690</b>	<b>416601</b>	<b>281071</b>	<b>474965</b>
16	Imputed value of household labour	107841	65733	20612	86079
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>645531</b>	<b>482334</b>	<b>301683</b>	<b>561044</b>

**Percentage Distribution of "COST A" per hectare of Cowpea (Winter) during 2020-21**



Sex wise work participation in hired human labours for Cowpea (winter) cultivation reveals that 13.30% of work shared by Female whereas 28.19% shared by male workers.

The following table reveals the percentage of hired human labour hours to total human labour hours.

**Table 81 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	26.98	29.83	25.24	28.19
Female	5.91	23.69	45.04	13.3
<b>Total</b>	<b>32.89</b>	<b>53.52</b>	<b>70.28</b>	<b>41.49</b>

**Table:82 Cost of cultivation of Cowpea -Winter per hectare(in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	144045	148889	146553	146339
	2019-2020	137230	147492	129133	141440
	2020-2021	141489	152686	220735	148688
Cost 'B'	2018-2019	422377	378768	341649	393739
	2019-2020	400151	454935	232756	415812
	2020-2021	537690	416601	281071	474965
Cost 'C'	2018-2019	523916	442065	386628	472119
	2019-2020	508358	520697	237147	499075
	2020-2021	645531	482334	301683	561044

## Output

**Table: 83 - Value of Product and By product per hectare (in Rs) of Cowpea – Winter 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
358909	399723	247000	375048

### 2.11.3 Cowpea -summer (Puncha) during 2020-21

For the cost of cultivation study on Cowpea (summer) during 2020-21 the total number of holdings selected was 295. The details of these holdings are presented below

**Table 84: Area and number of holdings under Cowpea -summer**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	254	15.26	57.28	0.06
Medium	41	11.38	42.72	0.28
Large				
<b>Total</b>	<b>295</b>	<b>26.64</b>	<b>100</b>	<b>0.09</b>

The total area under cultivation in the selected sample holdings covers to 26.64 hectares and the average size of a holding is 0.09 hectare.

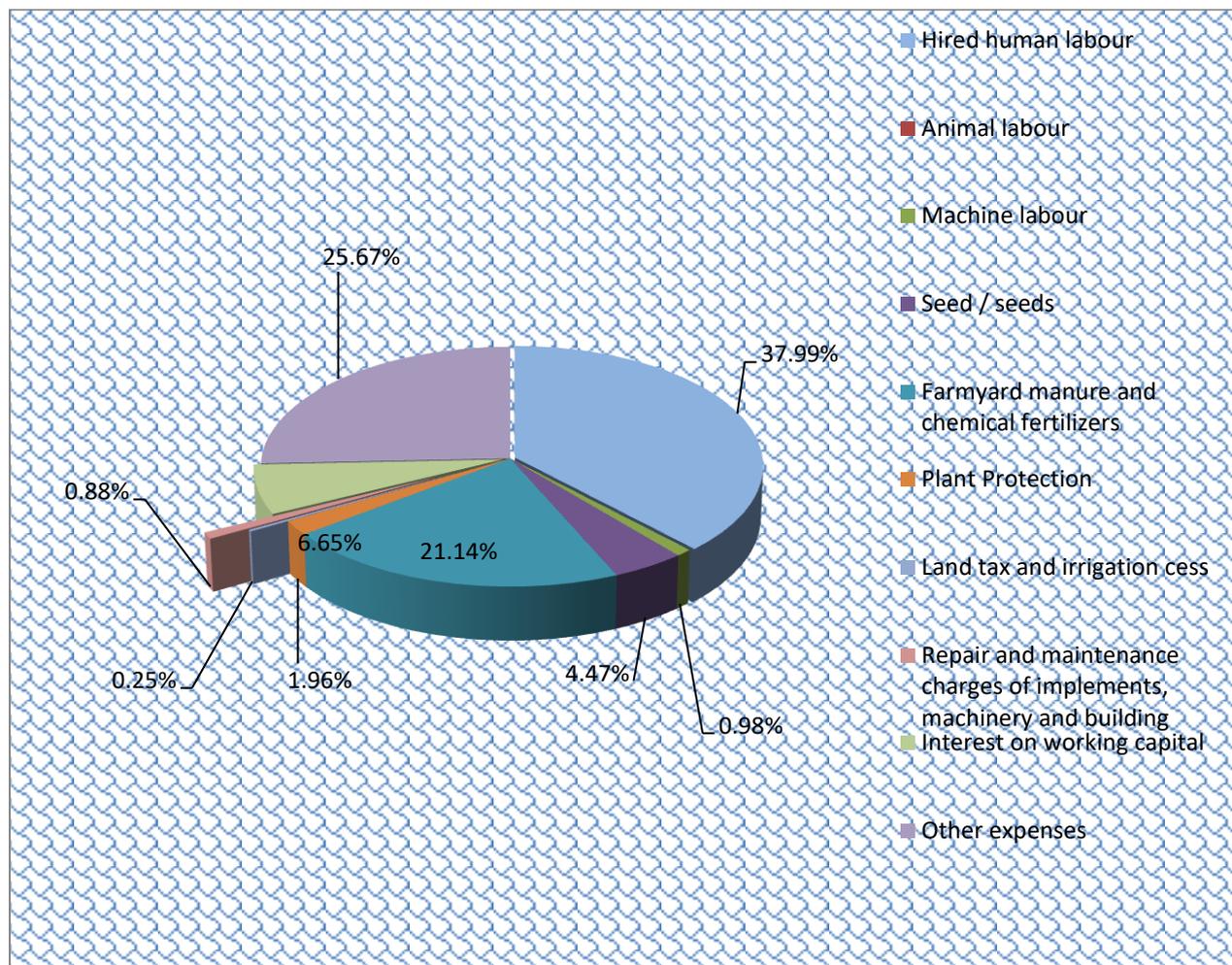
### Cost of Cultivation

Cost of cultivation of Cowpea (summer) per hectare is estimated as Rs.144802/- when cost 'A' is considered. Cost incurred for hired human labour is 37.99% of the total cost and farmyard manure and chemical fertilizer is 21.14% of the total cost, but the other expenses share is 25.67%

**Table 85: Cost of Cultivation per hectare(in Rs.) of Cowpea (Summer) during 2020-2021**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	44804	68695		55007
2	Animal labour				
3	Machine labour	1753	954		1412
4	Seed / seedlings	6758	6103		6479
5	Farmyard manure and chemical fertilizers	30285	31050		30612
6	Plant protection	2732	2995		2844
7	Land tax and irrigation Cess	302	452		366
8	Repair and maintenance charges of implements, machinery and building	1569	887		1278
9	Interest on working capital	8633	10980		9635
10	Other expenses	36633	37887		37169
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>133469</b>	<b>160003</b>		<b>144802</b>
12	Interest on fixed capital	14864	3983		10217
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>148333</b>	<b>163986</b>		<b>155019</b>
14	Interest on land value	310609	373199		337338
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>458942</b>	<b>537185</b>		<b>492357</b>
16	Imputed value of household labour	127279	92984		112633
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>586221</b>	<b>630169</b>		<b>604990</b>

**Percentage Distribution of “COST A” per hectare of Cowpea (Summer) during 2020-21**



In Cowpea summer cultivation hired male labour participation accounted as 23% of the total labour hours. Details are given below:

**Table 86: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	23.25	22.73		23
Female	2.85	12.59		6.59
<b>Total</b>	<b>26.1</b>	<b>35.32</b>		<b>29.59</b>

**Table 87: Cost of cultivation of Cowpea -Summer per hectare(in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	146448	150911	156446	149400
	2019-2020	139977	135620	66003	135798
	2020-2021	133469	160003		144802
Cost 'B'	2018-2019	399475	485290	554811	452192
	2019-2020	363733	283483	128426	330482
	2020-2021	458942	537185		492357
Cost 'C'	2018-2019	502598	562754	648621	543628
	2019-2020	495956	368101	208207	446360
	2020-2021	586221	630169		604990

**Table 88: Value of Product and by product per hectare (in Rs) of Cowpea Summer during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
330432	320463		326175

## 2.12 Cardamom during 2020-21

Cardamom is cultivated widely in Idukki, Palakkad and Wayanad districts of the state.

**Table 89: Area and Number of holdings under Cardamom cultivation**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	4	0.43	1.94	0.11
Medium	13	5.08	22.98	0.39
Large	8	16.6	75.08	2.08
<b>Total</b>	<b>25</b>	<b>22.11</b>	<b>100</b>	<b>0.88</b>

For the study 25 sample holdings were selected and the total area of crop in the selected area was 22.11 hectare. The average size per holding was 0.88 hectare.

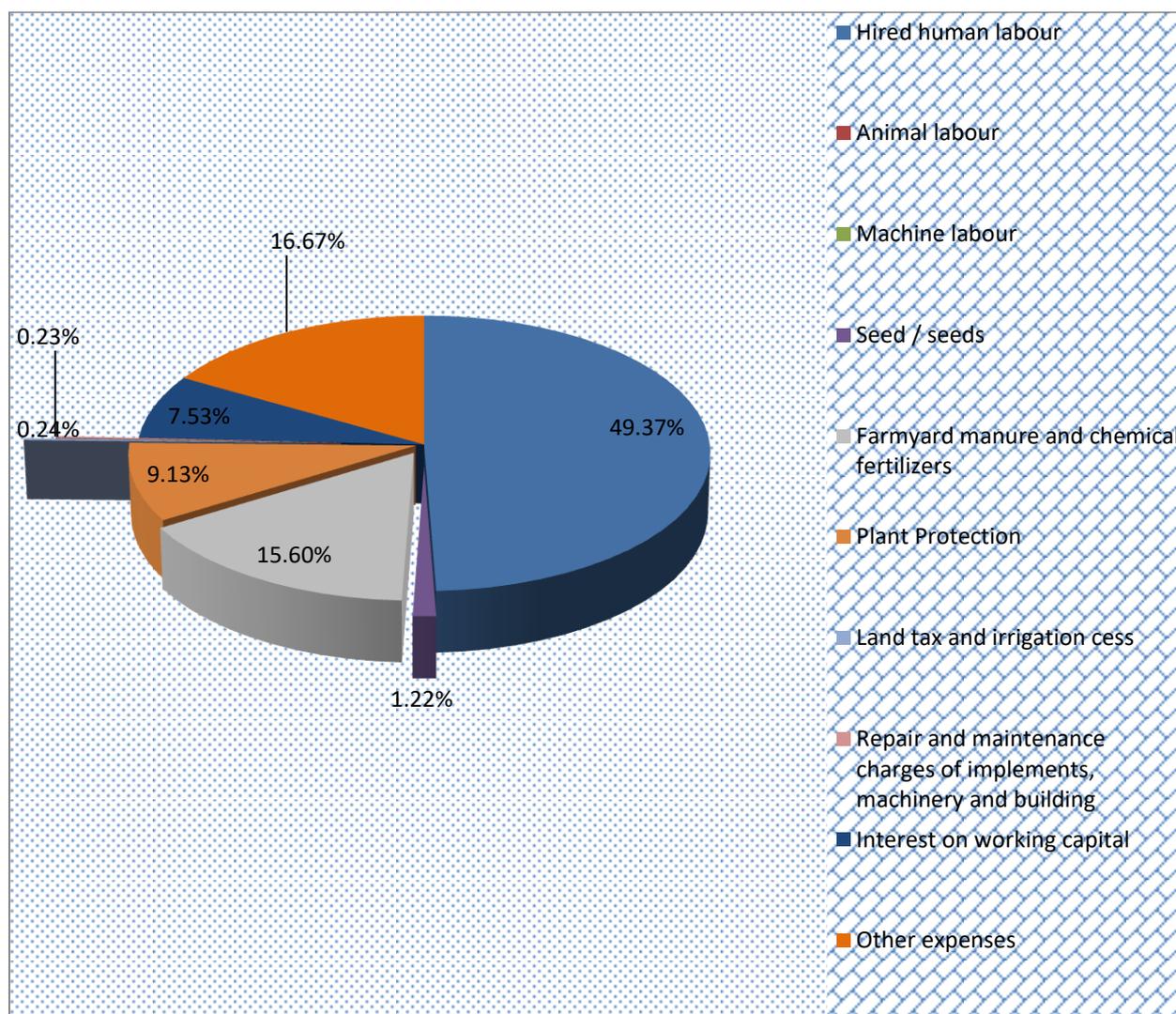
## Cost of Cultivation

The different cost components of Cardamom cultivation is given below: Per hectare cost for cultivating cardamom is estimated as Rs 247734/- excluding interest on fixed capital, interest on land value and imputed value of household labour.

**Table 90: Cost of Cultivation per hectare (in Rs.) of Cardamom**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	77382	150220	114912	122306
2	Animal labour				
3	Machine labour				
4	Seed / seedlings		8463	1446	3031
5	Farmyard manure and chemical fertilizers	23659	41443	38175	38647
6	Plant protection	13832	30097	20568	22629
7	Land tax and irrigation Cess	565	648	590	603
8	Repair and maintenance charges of implements, machinery and building	2870	1291	289	569
9	Interest on working capital	11487	23022	17510	18661
10	Other expenses	33863	28341	45441	41288
11	<b>Total Cost 'A' (1-10)</b>	163658	283525	238931	247734
12	Interest on fixed capital	44225	15577	2647	6417
13	Cost 'B1' (11+12)	207883	299102	241578	254151
14	Interest on land value	189990	142357	38040	64940
15	<b>Cost 'B' (13+14)</b>	397873	441459	279618	319091
16	Imputed value of household labour	183650	58024	24953	35606
17	<b>Cost 'C' (15+16)</b>	581523	499483	304571	354697

**Percentage Distribution of “COST A” per hectare of Cardamom during 2020-21**



When Cost A is considering, 49.37% comes under hired human labour and 15.60% in Farmyard manure and chemical fertilizers.

The following table illustrates the work participation of cardamom cultivation. It shows that percentage of hired human labour hours of females is very high and it is accounted as 65.2%.

**Table 91: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	16.49	21.46	13.76	15.83
Female	16.85	40.29	45.26	65.2
<b>Total</b>	<b>33.34</b>	<b>61.75</b>	<b>59.02</b>	<b>81.03</b>

**Table:92 Cost of cultivation of Cardamom per hectare(in Rs) during 2018-19, 2019-20 and 2020-21**

Concept of cost	Year	Holding Size class			
		Small	Medium	Large	All size
Cost 'A'	2018-2019	146133	187844	135318	158512
	2019-2020	136468	195152	148475	160436
	2020-2021	163658	283525	238931	247734
Cost 'B'	2018-2019	286079	309779	242145	274857
	2019-2020	341214	328100	237690	267002
	2020-2021	397873	441459	279618	319091
Cost 'C'	2018-2019	404413	412392	336952	375186
	2019-2020	464826	438727	295050	341886
	2020-2021	581523	499483	304571	354697

**Table 93: Value of Output per hectare (in Rs) of Cardamom**

The estimated value of output per hectare is Rs.547428/-

Holding Size Class			
Small	Medium	Large	All Sizes
517994	593804	533987	547428

Sample size, area under each crop and average size of each holding selected for cost of cultivation survey 2020-2021 is given below.

### 2.13.1 Ash Gourd Autumn during 2020-21

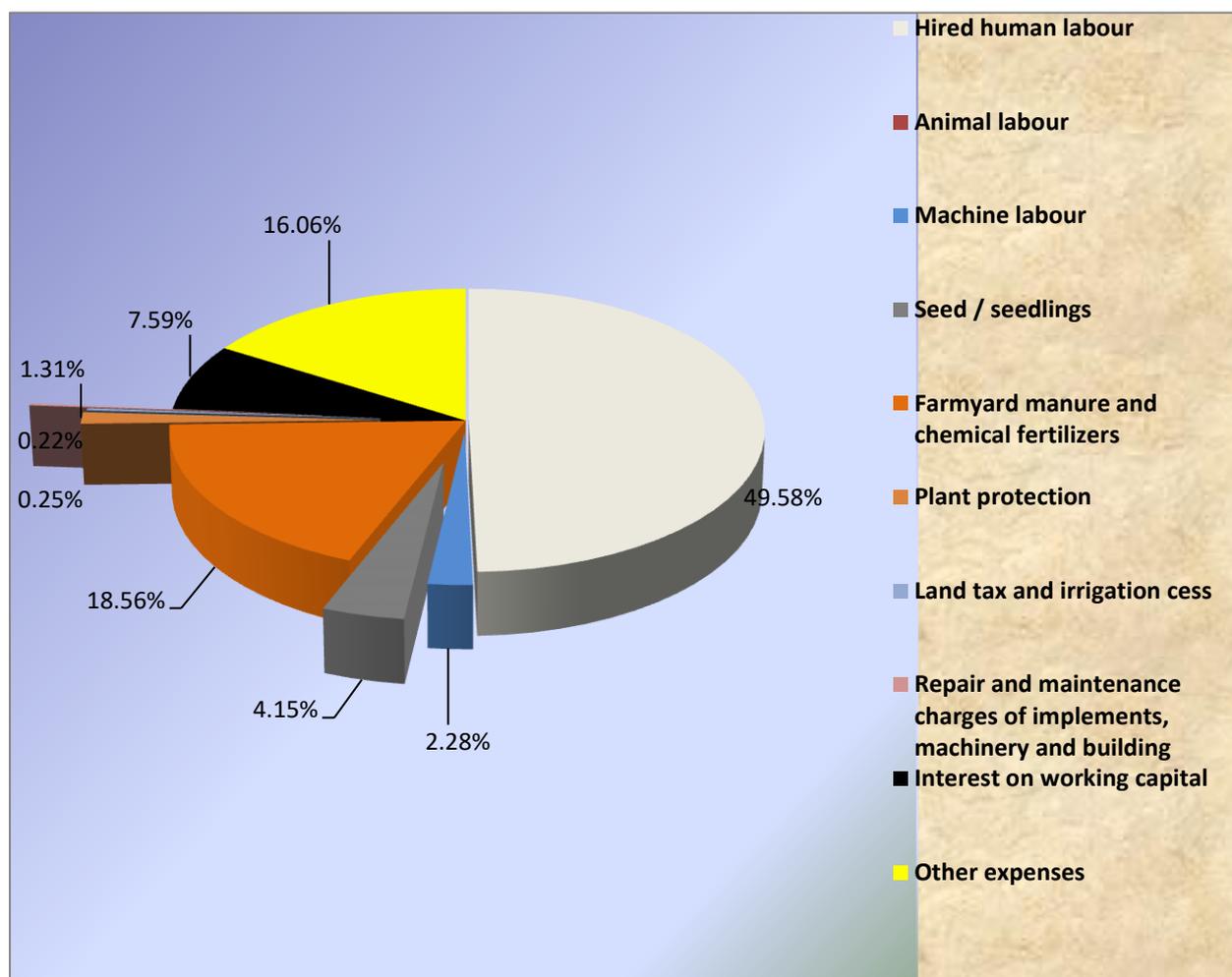
**Table 94 – Area and number of holdings under Ash Gourd (Autumn)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	54	2.17	27.19	0.04
Medium	7	2.47	30.95	0.35
Large	8	3.34	41.85	0.42
<b>Total</b>	<b>69</b>	<b>7.98</b>	<b>100</b>	<b>0.12</b>

**Table 95- Cost of Cultivation per hectare (in Rs.) of Ash Guard (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	17315	57012	41221	39607
2	Animal labour				
3	Machine labour		5896		1825
4	Seed / seedlings	3136	4278	2714	3313
5	Farmyard manure and chemical fertilizers	11798	12569	18475	14831
6	Plant protection	644	555	1670	1046
7	Land tax and irrigation cess	202	217	181	198
8	Repair and maintenance charges of implements, machinery and building	525	49	45	177
9	Interest on working capital	3289	8031	6408	6062
10	Other expenses	12805	17310	9530	12828
<b>11</b>	<b>Total cost 'A' (1-10)</b>	49714	105917	80244	79887
12	Interest on fixed capital	1631	465	3277	1959
<b>13</b>	<b>Cost 'B1' (11+12)</b>	51345	106382	83521	81846
14	Interest on land value	389459	217284	507487	385576
<b>15</b>	<b>Cost 'B' (13+14)</b>	440804	323666	591008	467422
16	Imputed value of household labour	50707	13779	28695	30065
<b>17</b>	<b>Cost 'C' (15+16)</b>	491511	337445	619703	497487

**Percentage Distribution of “COST A” per hectare of Ash Guard (Autumn) during 2020-21**



**Table 96: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	17.98	64.11	54.03	46.96
Female	6.7	31.48	13.43	9.63
<b>Total</b>	<b>24.68</b>	<b>95.59</b>	<b>67.46</b>	<b>56.59</b>

In Ash Gourd (Autumn) cultivation 9.63% of total labour hours shares to female participation of hired human labour hours.

**Table 97: Value of product and by-product per hectare (in Rs.) of Ash Gourd -Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
222580	132799	201681	186046

Value of product per hectare of Ash gourd in Autumn season is estimated as Rs186046/- whereas the cost of cultivation per hectare is Rs.79887/-.

### 2.13.2 Ash Gourd –Winter during 2020-21

During 2020-21 Cost of cultivation study on Ash gourd(Winter) season, 96 sample holdings by covering 5.81 hectare selected and the average area per holding covers to 0.06hectare

**Table 98 – Area and number of holdings under Ash Gourd (Winter)**

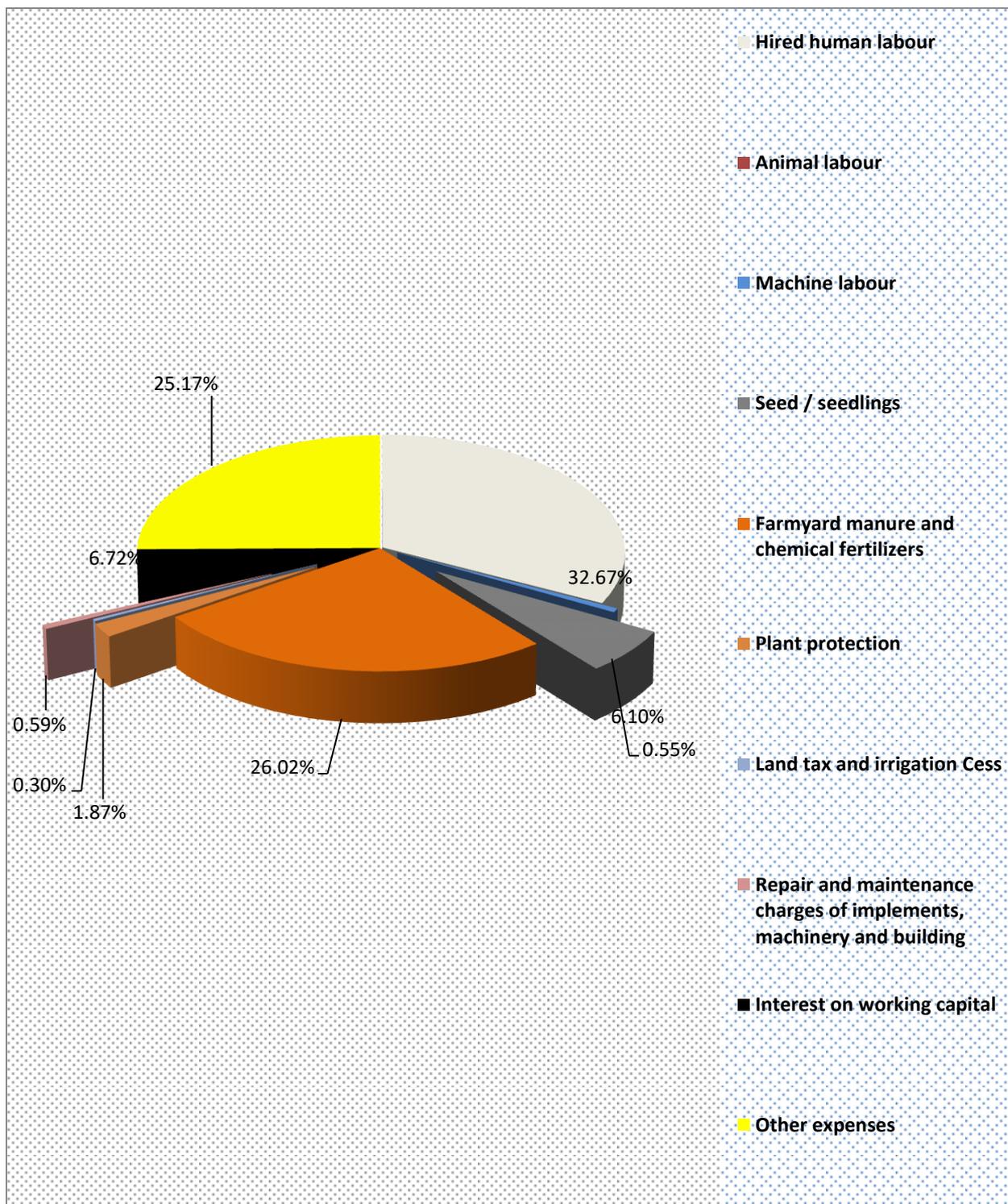
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	93	5.16	88.81	0.06
Medium	3	0.65	11.19	0.22
Large				
<b>Total</b>	<b>96</b>	<b>5.81</b>	<b>100</b>	<b>0.06</b>

### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 32.67%. Also farmyard manure and chemical fertilizers account 26.02%. Other expense account was 25.17%. By considering the various cost component of Ash gourd (Winter) cultivation, per hectare cost calculated as Rs.60767/-.

<b>Table 99– Cost of cultivation per hectare(in Rs.) of Ash Gourd (Winter)</b>					
SI No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	19799	20300		19855
2	Animal labour				
3	Machine labour	378			336
4	Seed / seedlings	3555	4909		3706
5	Farmyard manure and chemical fertilizers	16623	9333		15810
6	Plant protection	1003	2223		1139
7	Land tax and irrigation Cess	197	93		185
8	Repair and maintenance charges of implements, machinery and building	403			358
9	Interest on working capital	4136	3677		4085
10	Other expenses	13015	33430		15293
11	<b>Total Cost 'A' (1-10)</b>	59109	73965		60767
12	Interest on fixed capital	18751	3000		16981
13	Cost 'B1' (11+12)	77860	76965		77748
14	Interest on land value	296224	464340		314982
15	<b>Cost 'B' (13+14)</b>	374084	541305		392730
16	Imputed value of household labour	61250	50265		60024
17	<b>Cost 'C' (15+16)</b>	435334	591570		452754

Percentage Distribution of “COST A” per hectare of Ash gourd (Winter) during 2020-21



Sex wise work participation percentage of hired human labours for Ash gourd (winter) cultivation shown below reveals that 6.29% of work shared by Female whereas percentage share to male workers is 16.23%.

**Table 100 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	15.74	21.41		16.23
Female	6.75	9.57		6.29
<b>Total</b>	<b>22.49</b>	<b>30.98</b>		<b>22.52</b>

### Output

**Table: 101- Value of Product and By product per hectare(in Rs)of Ash Gourd (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
259673	251477		258758

### 2.13.3 Ash Gourd -Summer during 2020-21

For the cost of cultivation study on Ash gourd (summer) during 2020-21 the total number of sample holdings selected was 88. The details of these holdings are presented below:

**Table 102: Area and number of holdings under Ash Gourd-(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	84	3.31	78.44	0.04
Medium	4	0.91	21.56	0.23
Large				
<b>Total</b>	<b>88</b>	<b>4.22</b>	<b>100</b>	<b>0.05</b>

The total area under cultivation in the selected sample holdings covers 4.22 hectares and the average size of a holding is 0.05 hectare

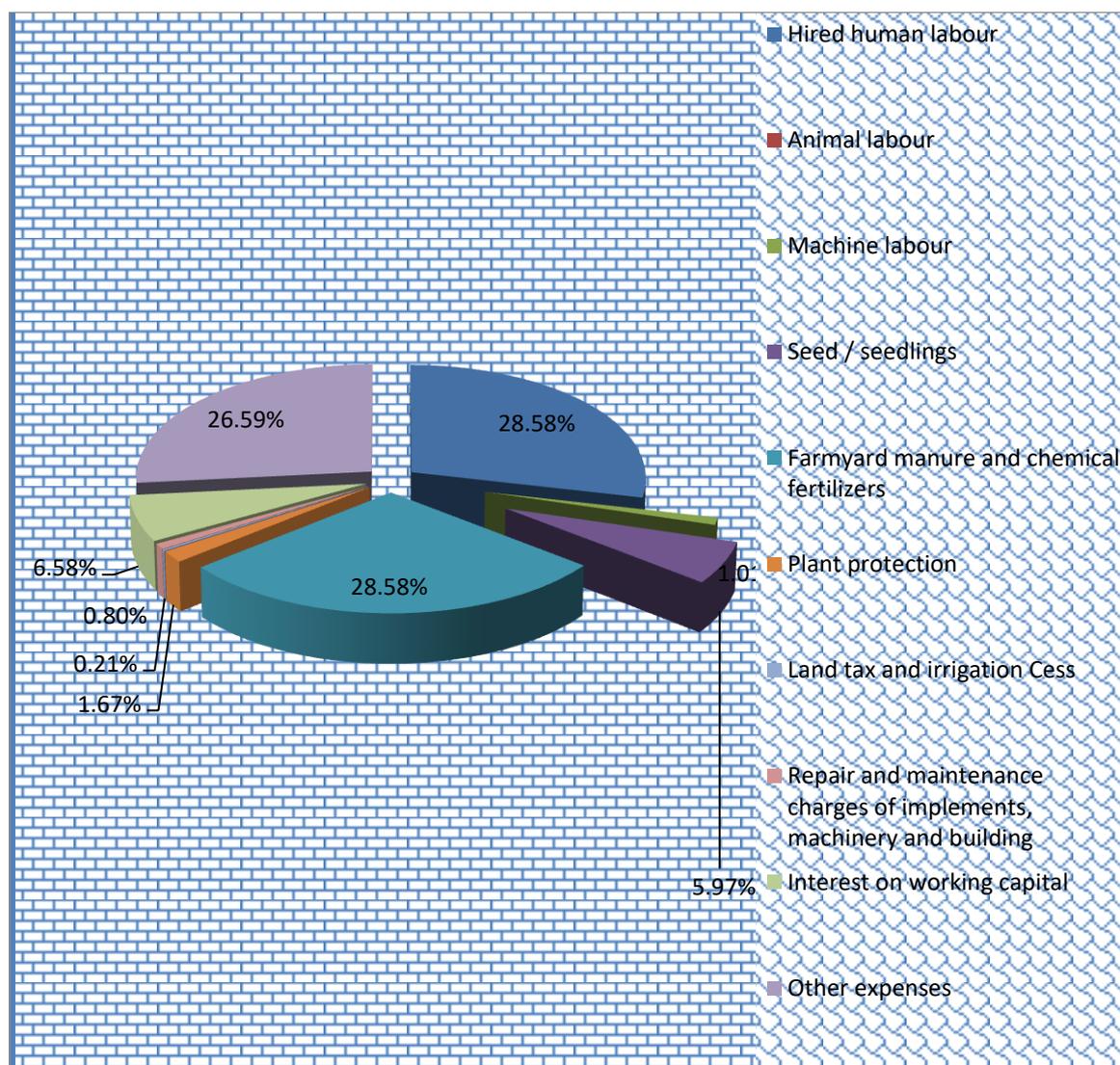
**Cost of Cultivation**

Cost of cultivation of Ash gourd (summer) per hectare is estimated as Rs.69373/- when cost 'A' is considered. Hired human labour gives a share of 28.58% and other expense gives 26.59%. Component wise holding size class details are presented below:

**Table 103: Cost of Cultivation per hectare(in Rs.) of Ash Gourd (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	21656	13173		19825
2	Animal labour				
3	Machine labour	499	1449		704
4	Seed / seedlings	4081	4369		4143
5	Farmyard manure and chemical fertilizers	21392	14150		19828
6	Plant protection	861	2251		1161
7	Land tax and irrigation Cess	186			146
8	Repair and maintenance charges of implements, machinery and building	487	812		557
9	Interest on working capital	4849	3539		4566
10	Other expenses	18949	16606		18443
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	<b>72960</b>	<b>56349</b>		<b>69373</b>
12	Interest on fixed capital	25152	11029		22095
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>98112</b>	<b>67378</b>		<b>91468</b>
14	Interest on land value	364967	242530		338529
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>463079</b>	<b>309908</b>		<b>429997</b>
16	Imputed value of household labour	68301	45613		63402
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>531380</b>	<b>355521</b>		<b>493399</b>

**Percentage Distribution of “COST A” per hectare of Ash gourd (Summer) during 2020-21**



In Ash gourd (Summer) cultivation male labour participation accounted as 20.17% of the total labour hours. Details are given below:

**Table 104: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	19.79	22.41		20.17
Female	3.84			3.84

**Table 105: Value of Product and by product per hectare(in Rs) of Ash Gourd (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
195809	80712		170956

### 2.14.1 Cucumber Autumn during 2020-21

**Table 106: Area and number of holdings under Cucumber Autumn**

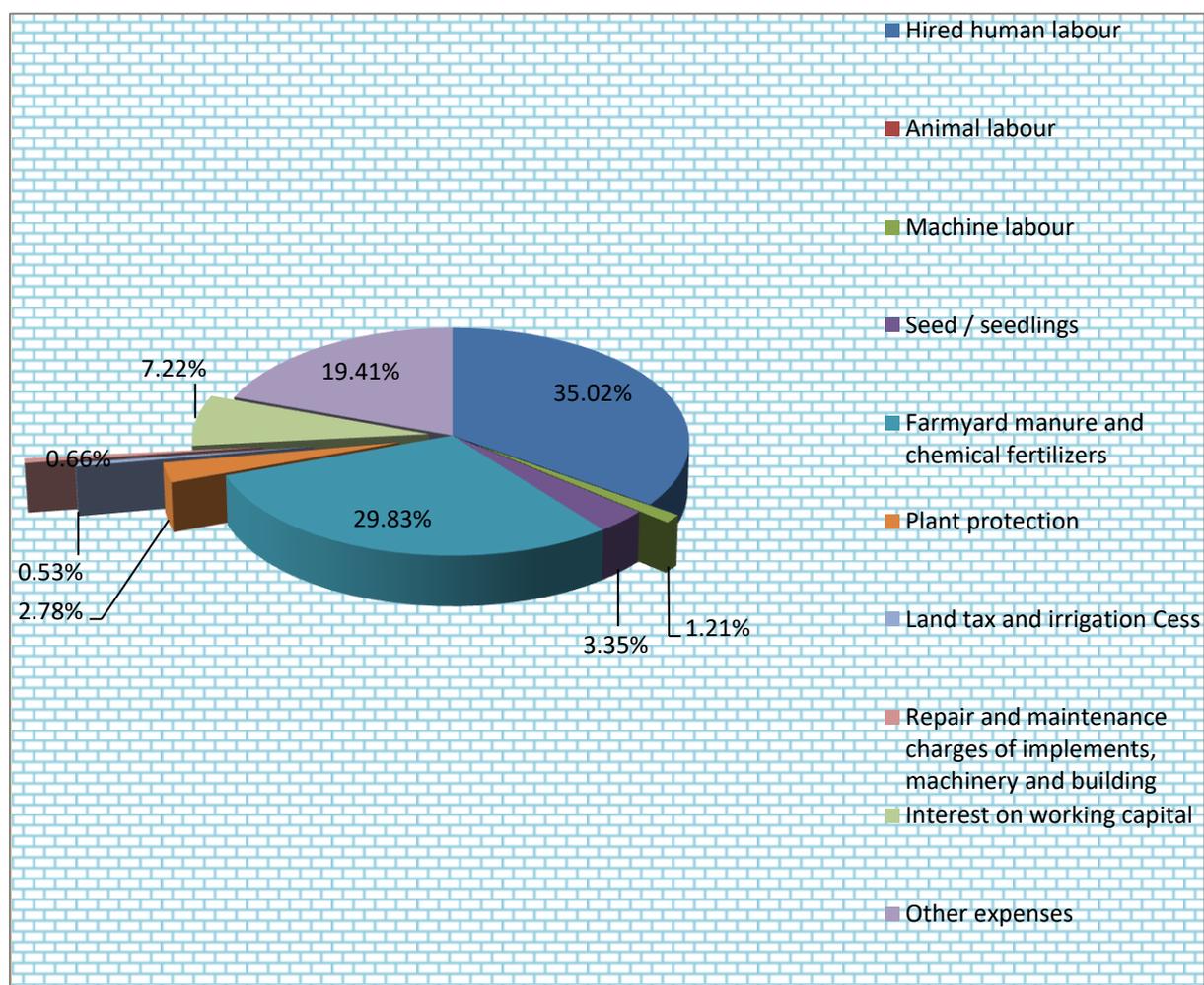
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	59	2.94	43.04	0.05
Medium	11	3.08	45.1	0.28
Large	1	0.81	11.86	0.81
<b>All Size</b>	<b>71</b>	<b>6.83</b>	<b>100</b>	<b>0.1</b>

**Table 107- Cost of Cultivation per hectare(in Rs.) of Cucumber (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	12849	28532	56439	25082
2	Animal labour				
3	Machine labour		1300	2346	864
4	Seed / seedlings	2746	2558	525	2398
5	Farmyard manure and chemical fertilizers	14847	30260	11288	21369
6	Plant protection	1959	2124	1607	1992
7	Land tax and irrigation cess	322	541		383
8	Repair and maintenance charges of implements, machinery and building	586	416	272	472
9	Interest on working capital	3240	6477	7221	5170
10	Other expenses	10425	15746	19513	13900
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>46974</b>	<b>87954</b>	<b>99211</b>	<b>71630</b>
12	Interest on fixed capital	1770	664	232	1089

<b>13</b>	<b>Cost 'B1' (11+12)</b>	48744	88618	99443	72719
14	Interest on land value	321108	745150	479806	530955
<b>15</b>	<b>Cost 'B' (13+14)</b>	369852	833768	579249	603674
16	Imputed value of household labour	61594	34851	6299	42991
<b>17</b>	<b>Cost 'C' (15+16)</b>	431446	868619	585548	646665

**Percentage Distribution of "COST A" per hectare of Cucumber (Autumn) during 2020-21**



**Table 108: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	15.65	41	89.86	34.33
Female	2.22	3.97		1.93
<b>Total</b>	<b>17.87</b>	<b>44.97</b>	<b>89.86</b>	<b>36.26</b>

In Ash Gourd (Autumn) cultivation 1.93% of total labour hours shares to female participation of hired human labour hours.

**Table 109: Value of product and by-product per hectare (in Rs.) of Cucumber Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
148968	160664	74637	145425

Value of product per hectare of Cucumber in Autumn season is estimated as Rs145425/- whereas the cost of cultivation per hectare is Rs.71630/-.

#### 2.14.2 Cucumber –Winter during 2020-21

During 2020-21 Cost of cultivation study on Cucumber (Winter) season, 153 sample holdings by covering 11.85 hectare selected and the average area per holding covers to 0.08 hectare

**Table 110 – Area and number of holdings under Cucumber (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	141	7.4	62.45	0.05
Medium	11	3.64	30.72	0.33
Large	1	0.81	6.84	0.81
<b>Total</b>	<b>153</b>	<b>11.85</b>	<b>100</b>	<b>0.08</b>

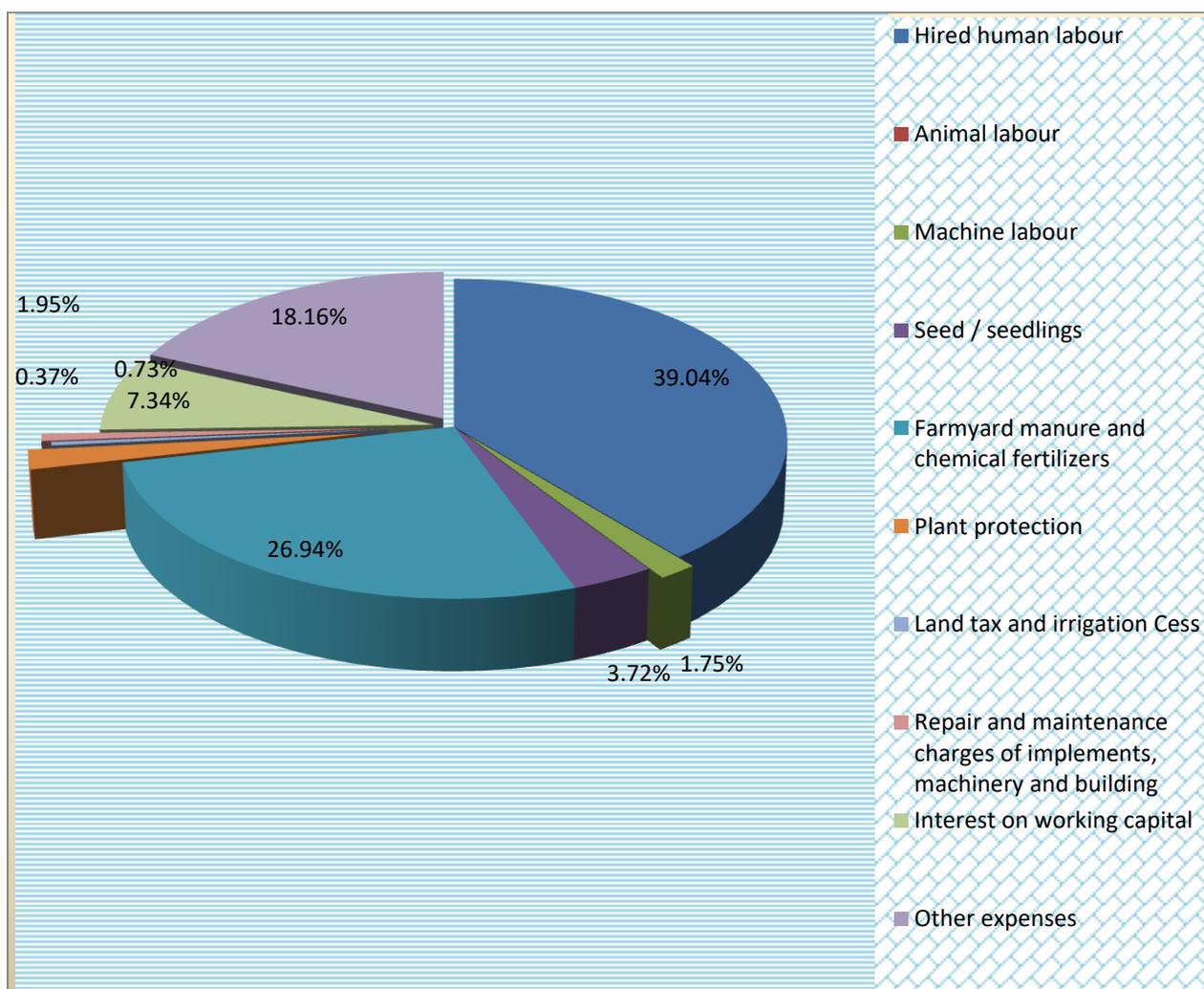
#### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 39.04%. Also farmyard manure and chemical fertilizers account 26.94%. Other expense account was 18.16%. By considering the various cost component of Cucumber (Winter) cultivation, per hectare cost calculated as Rs.85948/-

**Table 111 – Cost of cultivation per hectare (in Rs.) of Cucumber (Winter)**

SI No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	29548	38955	45893	33556
2	Animal labour				
3	Machine labour	446	2882	4940	1502
4	Seed / seedlings	3698	1583	5928	3200
5	Farmyard manure and chemical fertilizers	25511	17286	27985	23152
6	Plant protection	1485	2442		1677
7	Land tax and irrigation Cess	267	440	203	316
8	Repair and maintenance charges of implements, machinery and building	665	307	1729	628
9	Interest on working capital	6069	6315	8475	6309
10	Other expenses	16647	16409	2507	15608
11	<b>Total Cost 'A' (1-10)</b>	84336	86619	97660	85948
12	Interest on fixed capital	17104	3062	6255	12051
13	Cost 'B1' (11+12)	101440	89681	103915	97999
14	Interest on land value	474756	256786	199996	388990
15	<b>Cost 'B' (13+14)</b>	576196	346467	303911	486989
16	Imputed value of household labour	80879	33358	27911	62654
17	<b>Cost 'C' (15+16)</b>	657075	379825	331822	549643

**Percentage Distribution of “COST A” per hectare of Cucumber (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Cucumber (Winter) cultivation shown below reveals that 6.33% of work shared by Female whereas percentage share to male workers is 28.73%.

**Table 112 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	23.86	46.12	22.61	28.73
Female	3	13.24	36.58	6.33
<b>Total</b>	<b>26.86</b>	<b>59.36</b>	<b>59.19</b>	<b>35.06</b>

## Output

**Table: 113- Value of Product and By product per hectare (in Rs)of Cucumber (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
218184	135334	136591	187145

### 2.14.3 Cucumber -Summer during 2020-21

For the cost of cultivation study on Cucumber (summer) during 2020-21 the total number of sample holdings selected was 193. The details of these holdings are presented below:

**Table 114: Area and number of holdings under Cucumber-(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	184	9.92	78.61	0.05
Medium	9	2.69	21.32	0.3
Large				
<b>Total</b>	<b>193</b>	<b>12.62</b>	<b>100</b>	<b>0.07</b>

The total area under cultivation in the selected sample holdings covers 12.62 hectares and the average size of a holding is 0.07 hectare

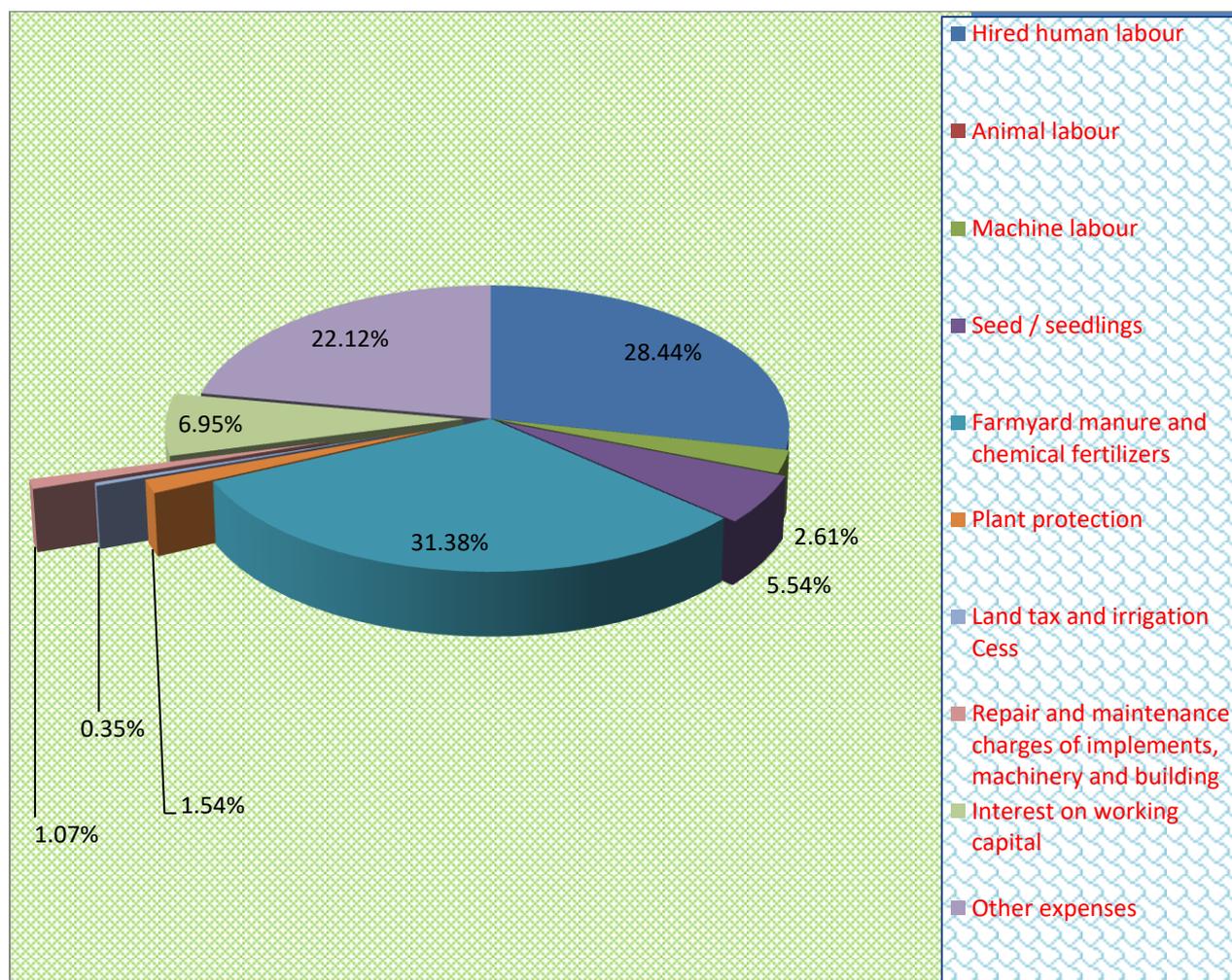
### Cost of Cultivation

Cost of cultivation of Cucumber (Summer) per hectare is estimated as Rs.81859/- when cost 'A' is considered. Hired human labour gives a share of 28.44% and other expense gives 22.12%. Component wise holding size class details are presented below:

**Table 115: Cost of Cultivation per hectare (in Rs.) of Cucumber (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	20779	32500		23280
2	Animal labour				
3	Machine labour	1731	3621		2134
4	Seed / seedlings	4849	3393		4538
5	Farmyard manure and chemical fertilizers	27384	19436		25687
6	Plant protection	1171	1576		1257
7	Land tax and irrigation Cess	339	111		290
8	Repair and maintenance charges of implements, machinery and building	988	446		872
9	Interest on working capital	5591	6053		5690
10	Other expenses	19547	12818		18111
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	82379	79954		81859
12	Interest on fixed capital	21358	3186		17473
<b>13</b>	<b>Cost 'B1' (11+12)</b>	103737	83140		99332
14	Interest on land value	338030	308129		331649
<b>15</b>	<b>Cost 'B' (13+14)</b>	441767	391269		430981
16	Imputed value of household labour	88195	31177		76026
<b>17</b>	<b>Cost 'C' (15+16)</b>	529962	422446		507007

**Percentage Distribution of “COST A” per hectare of Cucumber (Summer) during 2020-21**



In Cucumber (Summer) cultivation male labour participation accounted as 19.97% of the total labour hours. Details are given below:

**Table 116: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	16.87	38.78		19.97
Female	0.78	17.99		2.47
<b>Total</b>	<b>17.65</b>	<b>56.77</b>		<b>22.44</b>

**Table 117: Value of Product and by product per hectare (in Rs) of Cucumber (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
245568	120151		218802

**2.15.1 Snake Gourd Autumn during 2020-21****Table 118 : Area and number of holdings under Snake Gourd (Autumn)**

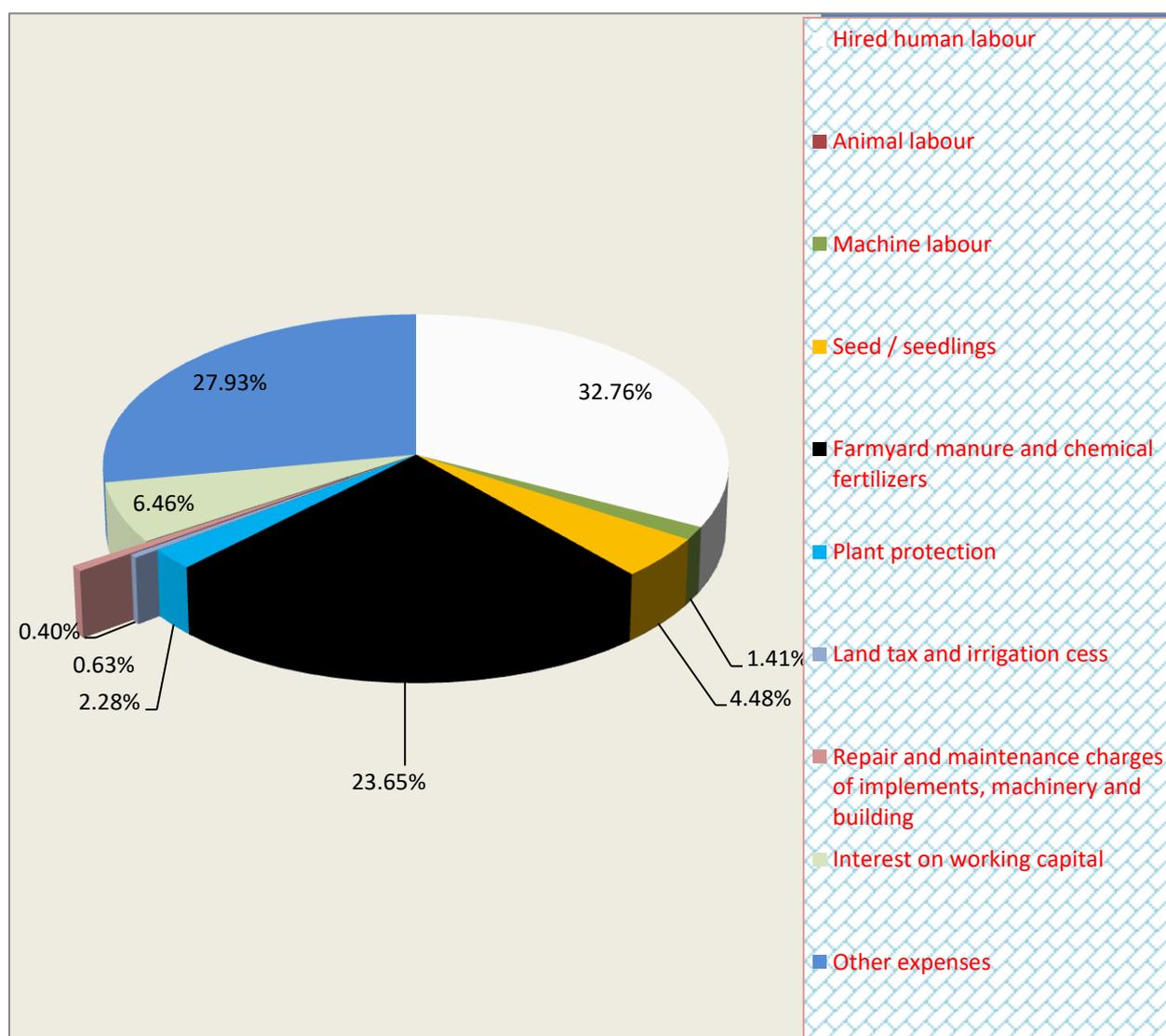
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	86	5.19	43.07	0.06
Medium	18	6.05	50.21	0.34
Large	1	0.81	6.72	0.81
<b>Total</b>	<b>105</b>	<b>12.05</b>	<b>100</b>	<b>0.11</b>

**Table 119: Cost of Cultivation per hectare(in Rs.) of Snake Gourd (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	38368	29738	61596	35594
2	Animal labour				
3	Machine labour	472	2643		1531
4	Seed / seedlings	6181	3895	3705	4866
5	Farmyard manure and chemical fertilizers	24114	26610	29047	25699
6	Plant protection	2629	2399	2140	2481
7	Land tax and irrigation cess	275	489	988	430
8	Repair and maintenance charges of implements, machinery and building	1072	354	716	687
9	Interest on working capital	7176	6528	9649	7017
10	Other expenses	29874	29866	37050	30352

<b>11</b>	<b>Total cost 'A' (1-10)</b>	110161	102522	144891	108657
12	Interest on fixed capital	7504	586	86	3530
<b>13</b>	<b>Cost 'B1' (11+12)</b>	117665	103108	144977	112187
14	Interest on land value	467000	1247757	1027520	896884
<b>15</b>	<b>Cost 'B' (13+14)</b>	584665	1350865	1172497	1009071
16	Imputed value of household labour	76184	56920	31801	63524
<b>17</b>	<b>Cost 'C' (15+16)</b>	660849	1407785	1204298	1072595

**Percentage Distribution of "COST A" per hectare of Snake Gourd (Autumn) during 2020-21**



**Table 120: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	27.71	27.87	64.25	30.24
Female	4.41	6.78		3.96
<b>Total</b>	<b>32.12</b>	<b>34.65</b>	<b>64.25</b>	<b>34.2</b>

In Snake gourd (Autumn) cultivation 3.96% of total labour hours shares to female participation of hired human labour hours.

**Table 121: Value of product and by-product per hectare (in Rs.) of Snake Gourd - Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
309670	217087	259350	259779

Value of product per hectare of Snake Gourd in Autumn season is estimated as Rs259779/- whereas the cost of cultivation per hectare is Rs.108657/-.

### 2.15.2 Snake Gourd –Winter during 2020-21

During 2020-21 Cost of cultivation study on Snake Gourd(Winter) season, 233 sample holdings by covering 21.33 hectare selected and the average area per holding covers to 0.09 hectare.

**Table 122: Area and number of holdings under Snake Gourd (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	205	13.66	64.04	0.07
Medium	27	6.86	32.16	0.25
Large	1	0.81	3.8	0.81
<b>Total</b>	<b>233</b>	<b>21.33</b>	<b>100</b>	<b>0.09</b>

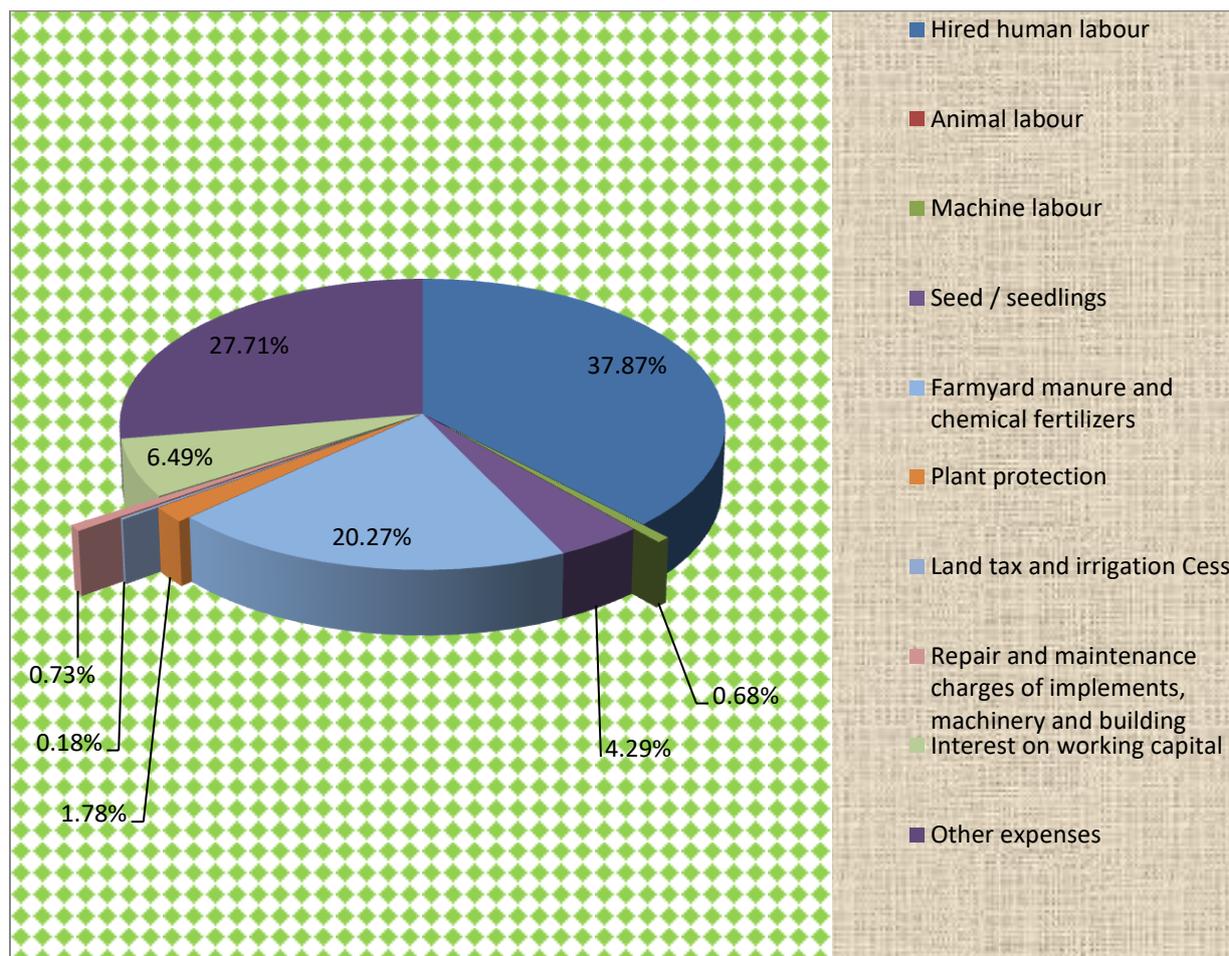
## Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 37.87%. Also farmyard manure and chemical fertilizers account 20.27%. Other expense account was 27.71%. By considering the various cost component of Snake Gourd (Winter) cultivation, per hectare cost calculated as Rs.132010/-

**Table 123 – Cost of cultivation per hectare (in Rs.) of Snake Gourd(Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	49844	51281	41570	49992
2	Animal labour				
3	Machine labour	529	1730		896
4	Seed / seedlings	6338	4567	3520	5661
5	Farmyard manure and chemical fertilizers	25707	28535	29536	26762
6	Plant protection	2660	1841	1531	2354
7	Land tax and irrigation Cess	233	287		242
8	Repair and maintenance charges of implements, machinery and building	1106	778		959
9	Interest on working capital	8508	8795	7616	8566
10	Other expenses	34394	36497	74100	36578
11	<b>Total Cost 'A' (1-10)</b>	129319	134311	157873	132010
12	Interest on fixed capital	6927	6804	2124	6705
13	Cost 'B1' (11+12)	136246	141115	159997	138715
14	Interest on land value	454599	541167	518700	484886
15	<b>Cost 'B' (13+14)</b>	590845	682282	678697	623601
16	Imputed value of household labour	90636	50220	11239	74617
17	<b>Cost 'C' (15+16)</b>	681481	732502	689936	698218

**Percentage Distribution of “COST A” per hectare of Snake Gourd(Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Snake Gourd(Winter) cultivation shown below reveals that 5.12% of work shared by Female whereas percentage share to male workers is 35.16%.

**Table 124 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	30.87	41.84	54.15	34.26
Female	4.29	13.47	34.87	5.12
<b>Total</b>	<b>35.16</b>	<b>55.31</b>	<b>89.02</b>	<b>39.38</b>

## Output

**Table: 125- Value of Product and By product per hectare (in Rs)of Snake Gourd (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
357924	317765	266760	341542

### 2.15.3. Snake Gourd-Summer during 2020-21

For the cost of cultivation study on Snake Gourd (summer) during 2020-21 the total number of sample holdings selected was 220. The details of these holdings are presented below:

**Table 126: Area and number of holdings under Snake Gourd -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	202	10.87	65.72	0.05
Medium	17	4.45	26.9	0.26
Large	1	1.21	7.32	1.21
<b>Total</b>	<b>220</b>	<b>16.54</b>	<b>100</b>	<b>0.08</b>

The total area under cultivation in the selected sample holdings covers 16.54 hectares and the average size of a holding is 0.08 hectare

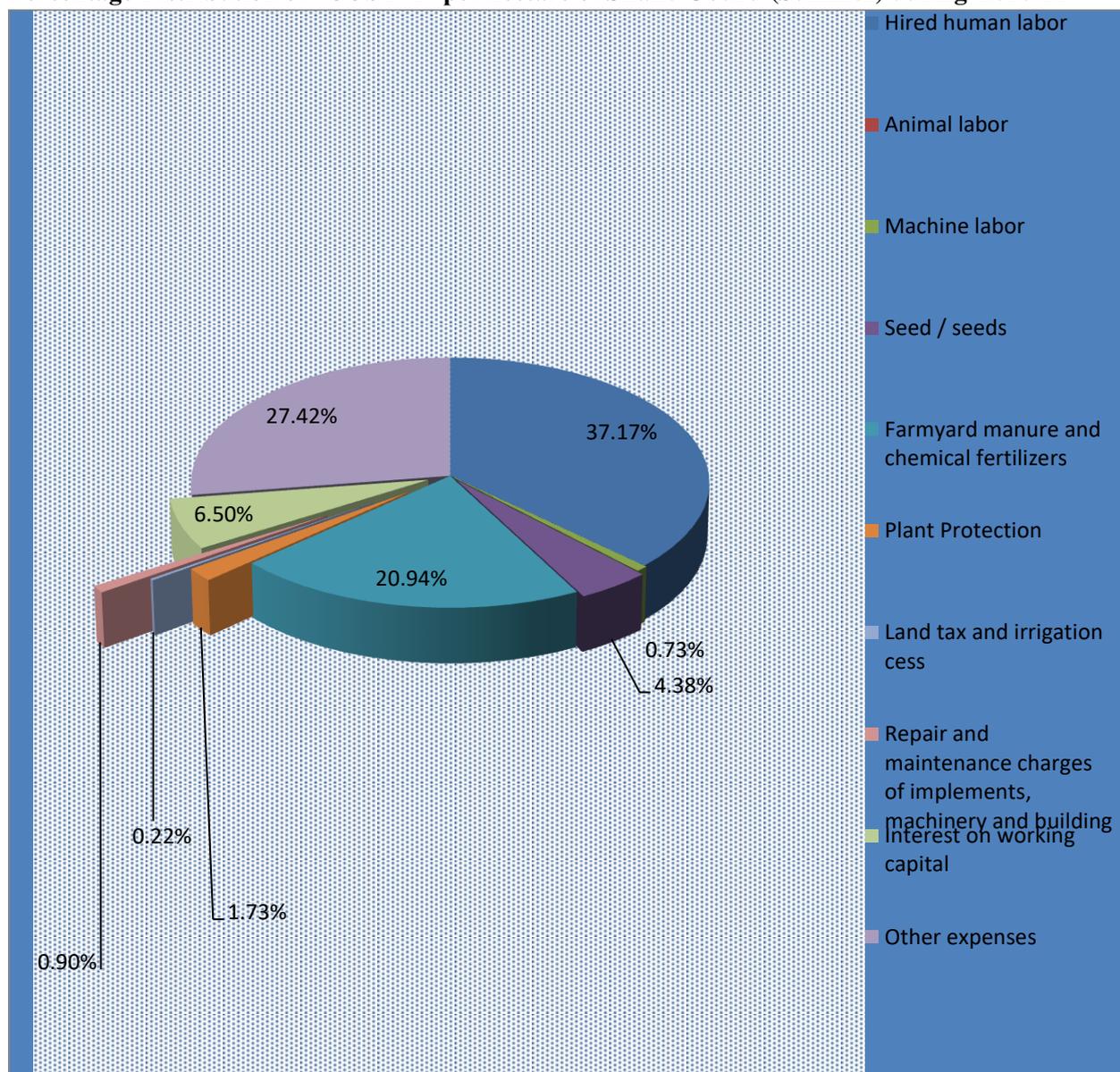
### Cost of Cultivation

Cost of cultivation of Snake Gourd (Summer) per hectare is estimated as Rs.134216/- when cost 'A' is considered. Hired human labour gives a share of 37.17% and other expense gives 27.42%. Component wise holding size class details are presented below:

**Table 127: Cost of Cultivation per hectare (in Rs.) of Snake Gourd (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	47703	51300	64266	49888
2	Animal labour				
3	Machine labour	1122	909		983
4	Seed / seedlings	6529	5065	3129	5885
5	Farmyard manure and chemical fertilizers	27557	30216	25318	28108
6	Plant protection	2240	2820	1225	2321
7	Land tax and irrigation Cess	255	485		298
8	Repair and maintenance charges of implements, machinery and building	1681	391		1210
9	Interest on working capital	8515	9031	9394	8719
10	Other expenses	38137	28993	53517	36804
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	133739	129210	156849	134216
12	Interest on fixed capital	12638	2839	222	9086
<b>13</b>	<b>Cost 'B1' (11+12)</b>	146377	132049	157071	143302
14	Interest on land value	362890	458470	518700	400070
<b>15</b>	<b>Cost 'B' (13+14)</b>	509267	590519	675771	543372
16	Imputed value of household labour	103531	63388	7245	85650
<b>17</b>	<b>Cost 'C' (15+16)</b>	612798	653907	683016	629022

**Percentage Distribution of “COST A” per hectare of Snake Gourd (Summer) during 2020-21**



In Snake Gourd (Summer) cultivation male labour participation accounted as 33.7% of the total labour hours. Details are given below:

**Table 128: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	28.81	38.63	85.54	33.7
Female	2.25	10.29	21.98	3.02
<b>Total</b>	<b>31.06</b>	<b>48.92</b>	<b>107.52</b>	<b>36.72</b>

**Table 129: Value of Product and by product per hectare (in Rs) of Snake Gourd (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
349499	290143	171253	320393

**2.16.1 Ladies Finger Autumn during 2020-21****Table 130: Area and number of holdings under Ladies Finger (Autumn)**

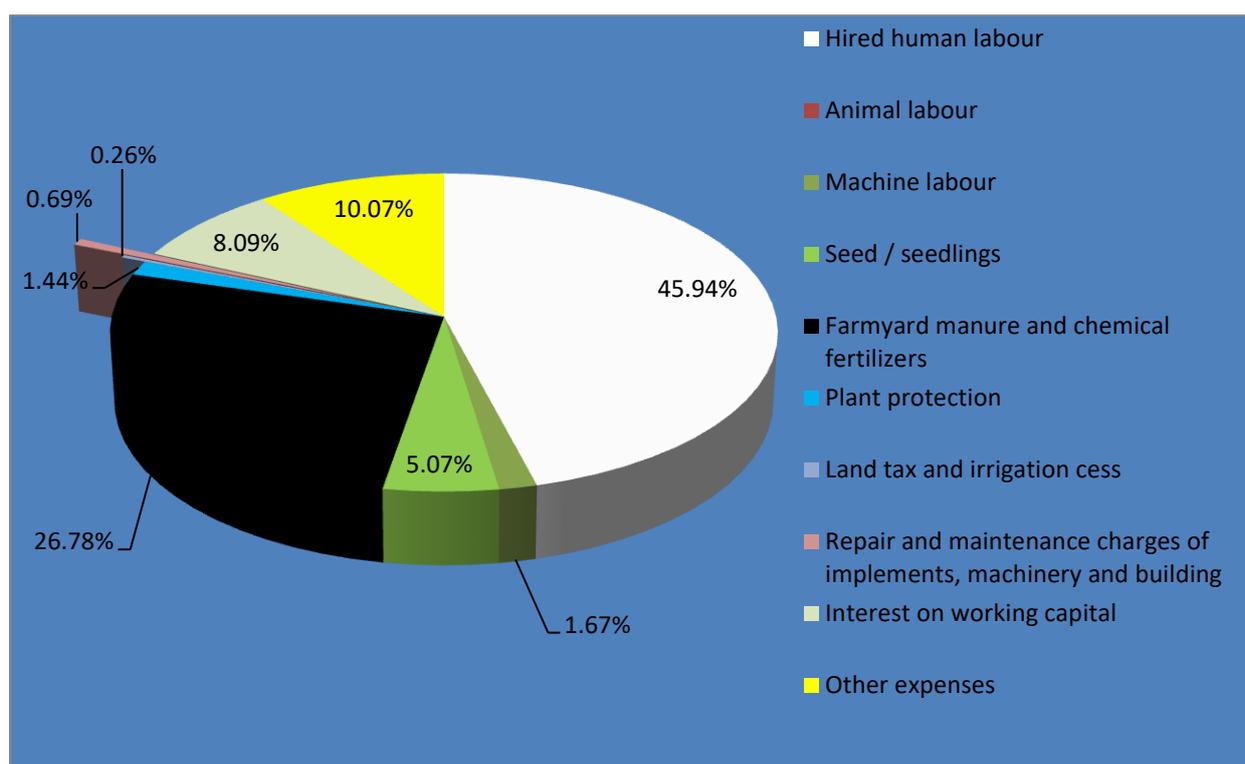
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	63	3.01	54.53	0.05
Medium	7	2.51	45.47	0.36
Large				
<b>Total</b>	<b>70</b>	<b>5.52</b>	<b>100</b>	<b>0.08</b>

**Table 131- Cost of Cultivation per hectare (in Rs.) of Ladies Finger (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	21116	59637		38625
2	Animal labour				
3	Machine labour	332	2689		1403
4	Seed / seedlings	4755	3674		4264
5	Farmyard manure and chemical fertilizers	20367	25099		22518
6	Plant protection	1510	854		1212
7	Land tax and irrigation cess	174	272		218
8	Repair and maintenance charges of implements, machinery and building	901	185		576
9	Interest on working capital	4808	9195		6802
10	Other expenses	11445	4892		8467
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>65408</b>	<b>106497</b>		<b>84085</b>

12	Interest on fixed capital	13458	8804		11347
<b>13</b>	<b>Cost 'B1' (11+12)</b>	78866	115301		95432
14	Interest on land value	513828	353590		440992
<b>15</b>	<b>Cost 'B' (13+14)</b>	592694	468891		536424
16	Imputed value of household labour	69477	13768		44155
<b>17</b>	<b>Cost 'C' (15+16)</b>	662171	482659		580579

**Percentage Distribution of "COST A" per hectare of Ladies Finger (Autumn) during 2020-21**



**Table 132: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	11.36	52.05		28.21
Female	7.91	35.7		15.49
<b>Total</b>	<b>19.27</b>	<b>87.75</b>		<b>43.7</b>

In Ladies Finger (Autumn) cultivation 15.49% of total labour hours shares to female participation of hired human labour hours.

**Table: 133: Value of product and by-product per hectare (in Rs.) of Ladies Finger -Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
204767	186614		196515

Value of product per hectare of Ladies Finger in Autumn season is estimated as Rs 196515/- whereas the cost of cultivation per hectare is Rs.84085/-.

### 2.16.2 Ladies Finger–Winter during 2020-21

During 2020-21 Cost of cultivation study on Ladies Finger-(Winter) season, 143 sample holdings by covering 8.2 hectare selected and the average area per holding covers to 0.06 hectare.

**Table 134: – Area and number of holdings under Ladies Finger (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	131	5.4	65.85	0.04
Medium	12	2.79	34.02	0.23
Large				
<b>Total</b>	<b>143</b>	<b>8.2</b>	<b>100</b>	<b>0.06</b>

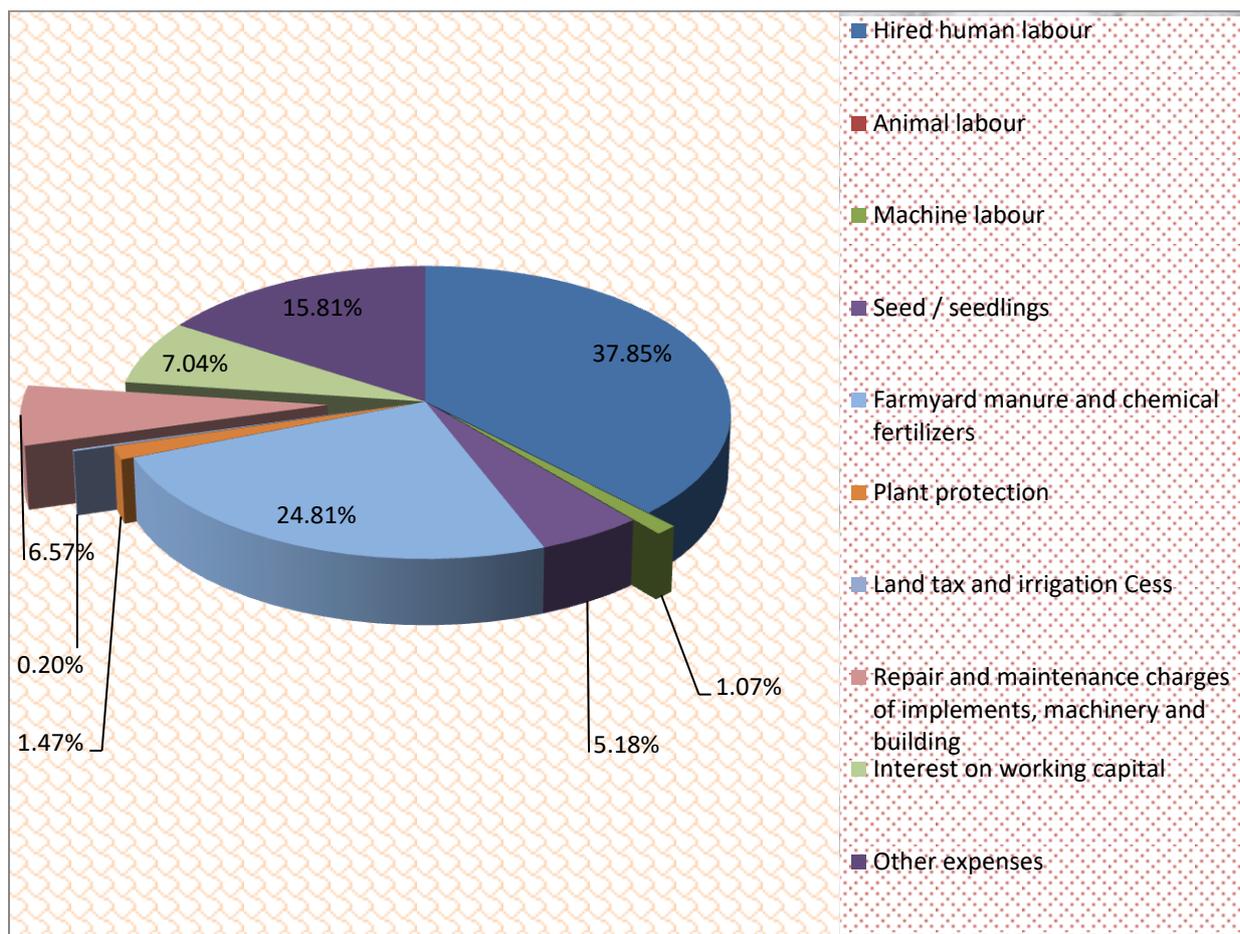
### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 37.85%. Also farmyard manure and chemical fertilizers account 24.81%. Other expense account was 15.81%. By considering the various cost component of Ladies Finger-(Winter) cultivation, per hectare cost calculated as Rs.91403/-

**Table 135: – Cost of cultivation per hectare(in Rs.) of Ladies Finger-(Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	33486	36738		34594
2	Animal labour				
3	Machine labour	740	1450		982
4	Seed / seedlings	5161	3908		4734
5	Farmyard manure and chemical fertilizers	27498	13346		22676
6	Plant protection	1726	603		1343
7	Land tax and irrigation Cess	207	146		186
8	Repair and maintenance charges of implements, machinery and building	9001	208		6005
9	Interest on working capital	6861	5604		6433
10	Other expenses	17802	7965		14450
11	<b>Total Cost 'A' (1-10)</b>	102482	69968		91403
12	Interest on fixed capital	30292	23952		28126
13	Cost 'B1' (11+12)	132774	93920		119529
14	Interest on land value	357564	293472		335726
15	<b>Cost 'B' (13+14)</b>	490338	387392		455255
16	Imputed value of household labour	90431	25344		68253
17	<b>Cost 'C' (15+16)</b>	580769	412736		523508

**Percentage Distribution of “COST A” per hectare of Ladies Finger-(Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Ladies Finger (Winter) cultivation shown below reveals that 13.16% of work shared by Female whereas percentage share to male workers is 21.35%.

**Table 136: – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	20.53	23.63		21.35
Female	3.52	35.39		13.16
<b>Total</b>	<b>24.05</b>	<b>59.02</b>		<b>34.51</b>

## Output

**Table: 137:- Value of Product and By product per hectare (in Rs) of Ladies Finger (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
343471	186389		289947

### 2.16.3 Ladies Finger -Summer during 2020-21

For the cost of cultivation study on Ladies Finger(summer) during 2020-21 the total number of sample holdings selected was 143. The details of these holdings are presented below:

**Table 138: Area and number of holdings under Ladies Finger -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	136	5.65	76.66	0.04
Medium	7	1.72	23.34	0.25
Large				
<b>Total</b>	<b>143</b>	<b>7.37</b>	<b>100</b>	<b>0.05</b>

The total area under cultivation in the selected sample holdings covers 7.37 hectares and the average size of a holding is 0.05 hectare

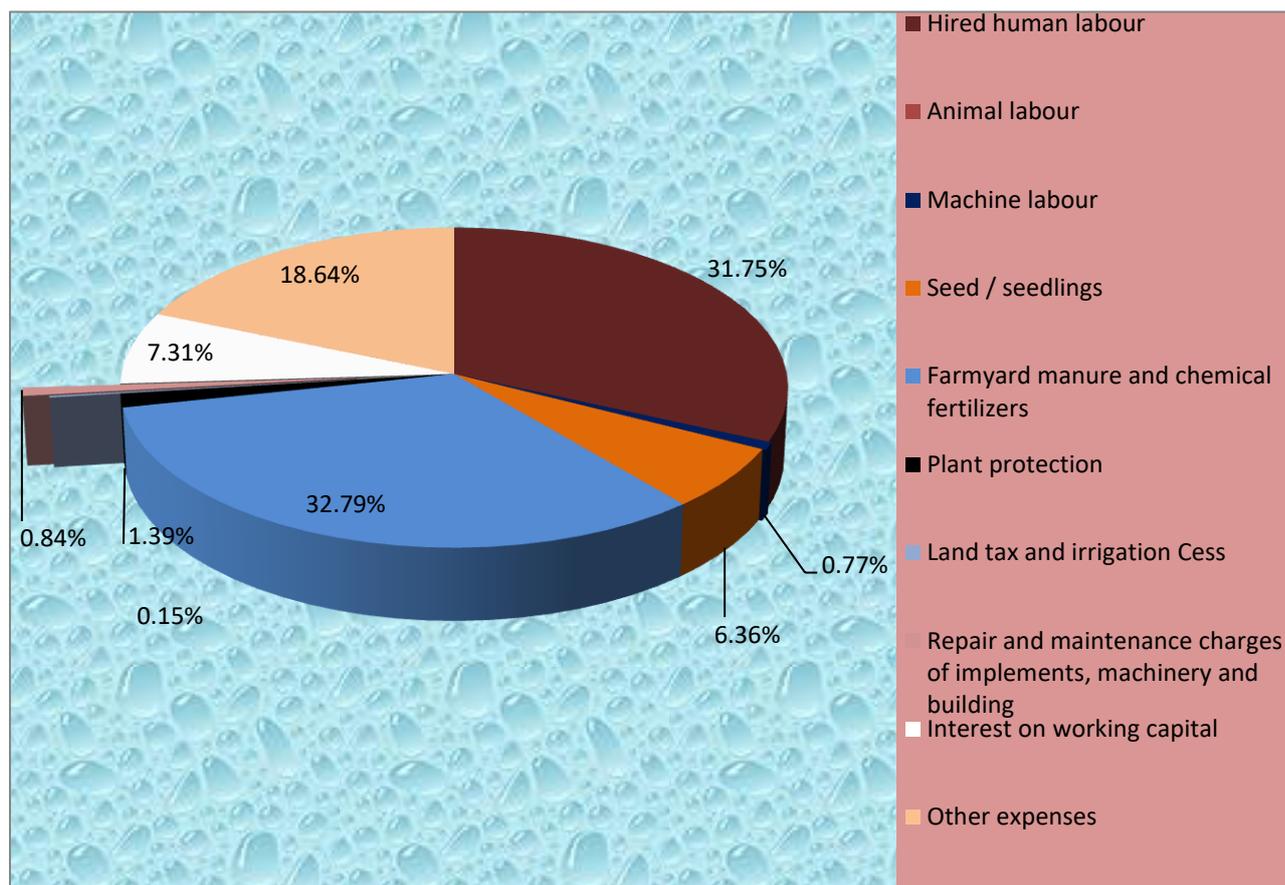
### Cost of Cultivation

Cost of cultivation of Ladies Finger (Summer) per hectare is estimated as Rs.100322/- when cost 'A' is considered. Hired human labour gives a share of 31.75% and other expense gives 18.64%. Component wise holding size class details are presented below:

**Table 139: Cost of Cultivation per hectare(in Rs.) of Ladies Finger (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	25775	51829		31856
2	Animal labour				
3	Machine labour	566	1438		770
4	Seed / seedlings	7381	3083		6378
5	Farmyard manure and chemical fertilizers	36544	20893		32892
6	Plant protection	1315	1655		1394
7	Land tax and irrigation Cess	173	84		152
8	Repair and maintenance charges of implements, machinery and building	772	1096		847
9	Interest on working capital	7158	7890		7329
10	Other expenses	19429	16324		18704
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	99113	104292		100322
12	Interest on fixed capital	29255	10946		24990
<b>13</b>	<b>Cost 'B1' (11+12)</b>	128368	115238		125312
14	Interest on land value	475430	659235		518328
<b>15</b>	<b>Cost 'B' (13+14)</b>	603798	774473		643640
16	Imputed value of household labour	96350	68114		89760
<b>17</b>	<b>Cost 'C' (15+16)</b>	700148	842587		733400

**Percentage Distribution of “COST A” per hectare of Ladies Finger (Summer) during 2020-21**



In Ladies Finger (Summer) cultivation male labour participation accounted as 20.55% of the total labour hours. Details are given below:

**Table 140: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	16.75	33.95		20.55
Female	1.73	18.2		4.39
<b>Total</b>	<b>18.48</b>	<b>52.15</b>		<b>24.94</b>

**Table 141: Value of Product and by product per hectare (in Rs) of Ladies Finger (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
350945	253204		328133

**2.17.1 Cabbage - Autumn during 2020-21****Table 142: Area and number of holdings under Cabbage - Autumn**

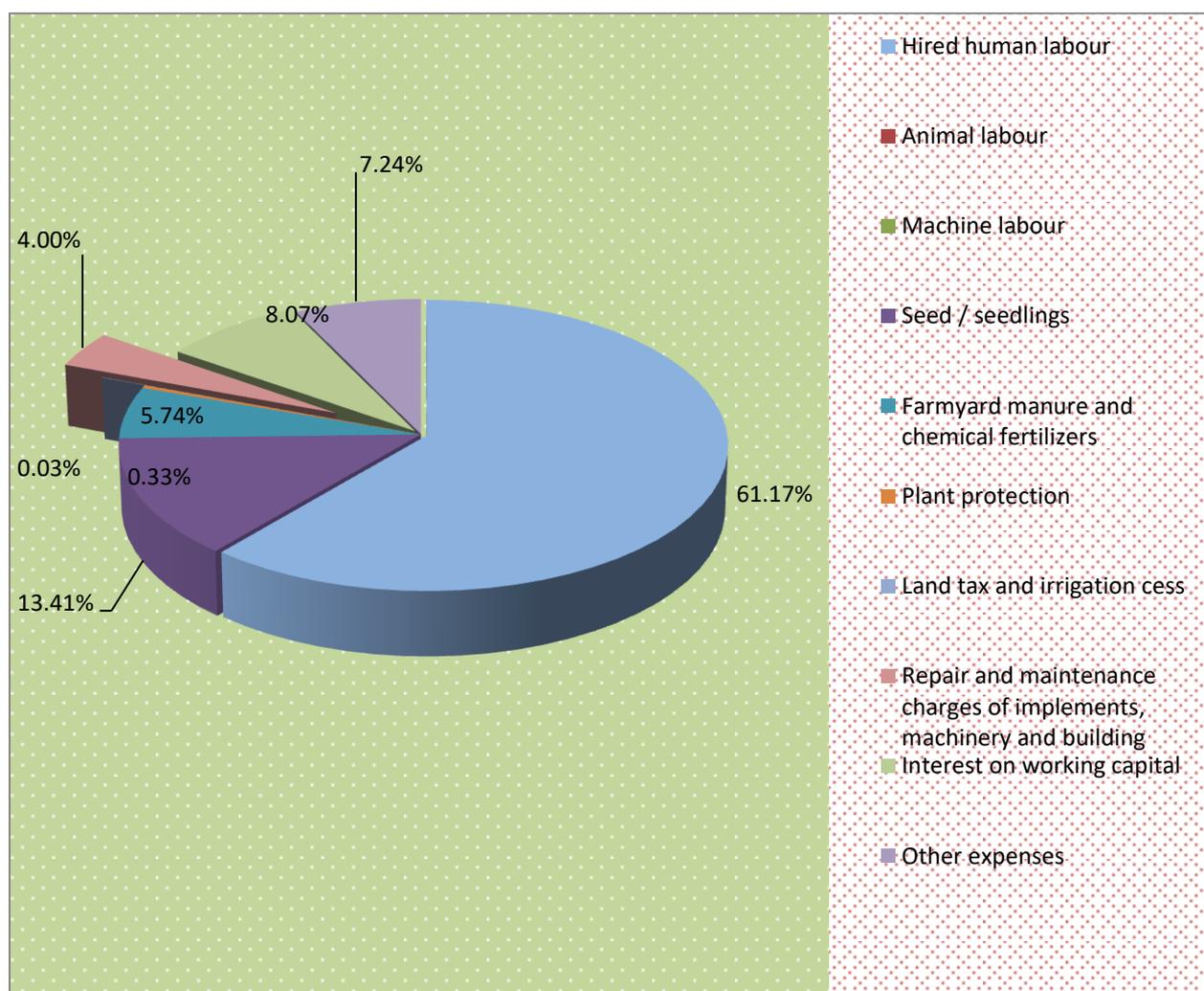
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	5	0.4	26.32	0.08
Medium	5	1.11	73.03	0.22
Large				
<b>Total</b>	<b>10</b>	<b>1.52</b>	<b>100</b>	<b>0.15</b>

**Table 143- Cost of Cultivation per hectare(in Rs.) of Cabbage (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	146026	112237		121247
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	38087	22390		26576
5	Farmyard manure and chemical fertilizers	21983	7518		11375
6	Plant protection	2470			659
7	Land tax and irrigation cess	49	76		69
8	Repair and maintenance charges of implements, machinery and building	13091	6063		7937
9	Interest on working capital	20857	14214		15986

10	Other expenses	15561	13922		14359
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>258124</b>	<b>176420</b>		<b>198208</b>
12	Interest on fixed capital	24218	16868		18806
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>282342</b>	<b>193288</b>		<b>217014</b>
14	Interest on land value	90896	92512		92081
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>373238</b>	<b>285800</b>		<b>309095</b>
16	Imputed value of household labour				
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>373238</b>	<b>285800</b>		<b>309095</b>

Percentage Distribution of "COST A" per hectare of Cabbage (Autumn) during 2020-21



**Table 144: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	76.99	70.25		72.39
Female	50	50		27.61
<b>Total</b>	<b>126.99</b>	<b>120.25</b>		<b>100</b>

In Cabbage (Autumn) cultivation 27.61% of total labour hours shares to female participation of hired human labour hours.

**Table: 145: Value of product and by-product per hectare (in Rs.) of Cabbage-Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
296400	256341		267023

Value of product per hectare of Cabbage in Autumn season is estimated as Rs267023/- whereas the cost of cultivation per hectare is Rs.198208/-.

### 2.17.2 Cabbage–Winter during 2020-21

During 2020-21 Cost of cultivation study on Cabbage (Winter) season, 10 sample holdings by covering 1.52 hectare selected and the average area per holding covers to 0.15 hectare.

**Table 146: Area and number of holdings under Cabbage (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	5	0.4	26.32	0.08
Medium	5	1.11	73.03	0.22
Large				
<b>Total</b>	<b>10</b>	<b>1.52</b>	<b>100</b>	<b>0.15</b>

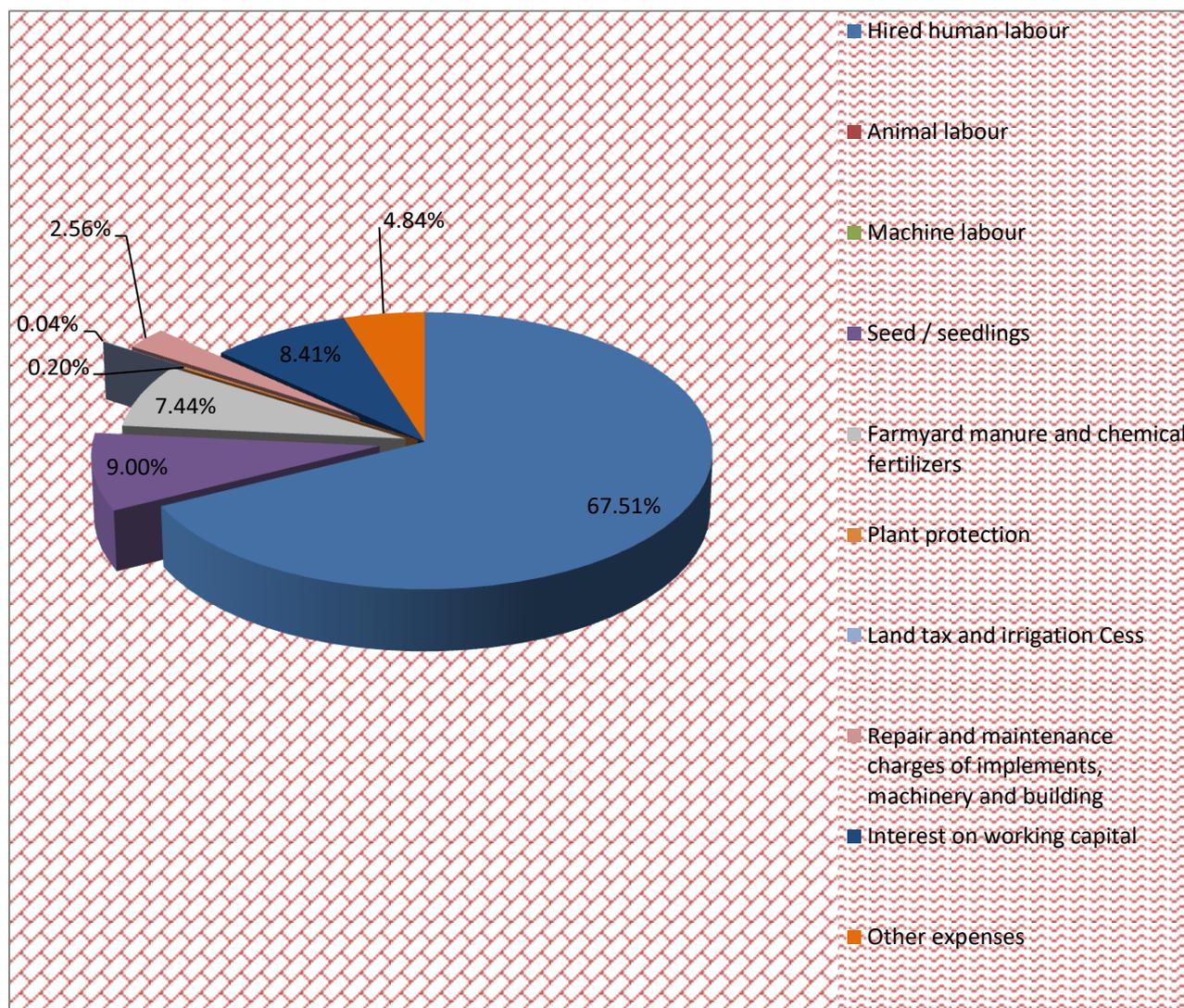
## Cost of Cultivation

In CostA, the major share of the cost component was hired human labour. It constitutes 67.51%. Also farmyard manure and chemical fertilizers account 7.44%. Other expense account was 4.84%. By considering the various cost component of Cabbage (Winter) cultivation, per hectare cost calculated as Rs.235211/-

**Table 147: Cost of cultivation per hectare (in Rs.) of Cabbage (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	177445	152008		158791
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	20106	21553		21167
5	Farmyard manure and chemical fertilizers	18525	17110		17488
6	Plant protection	395	494		468
7	Land tax and irrigation Cess	80	85		84
8	Repair and maintenance charges of implements, machinery and building	5805	6108		6027
9	Interest on working capital	21647	19117		19791
10	Other expenses	4446	13922		11395
11	<b>Total Cost 'A' (1-10)</b>	248449	230397		235211
12	Interest on fixed capital	23848	15889		17990
13	Cost 'B1' (11+12)	272297	246286		253201
14	Interest on land value	90896	92512		92081
15	<b>Cost 'B' (13+14)</b>	363193	338798		345282
16	Imputed value of household labour				
17	<b>Cost 'C' (15+16)</b>	363193	338798		345282

**Percentage Distribution of “COST A” per hectare of Cabbage (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Cabbage (Winter) cultivation shown below reveals that 16.79% of work shared by Female whereas percentage share to male workers is 83.21%.

**Table 148 : Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	85.71	82.1		83.21
Female	50	50		16.79
<b>Total</b>	<b>135.71</b>	<b>132.1</b>		<b>100</b>

**Output****Table: 149 :Value of Product and By product per hectare (in Rs)of Cabbage (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
340119	258380		280177

**2.17.3 Cabbage -Summer during 2020-21**

For the cost of cultivation study on Cabbage (summer) during 2020-21 the total number of sample holdings selected was 10. The details of these holdings are presented below:

**Table 150: Area and number of holdings under Cabbage -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	10	0.58	100	0.06
Medium				
Large				
<b>Total</b>	<b>10</b>	<b>0.58</b>	<b>100</b>	<b>0.06</b>

The total area under cultivation in the selected sample holdings covers 0.58 hectares and the average size of a holding is 0.06 hectare

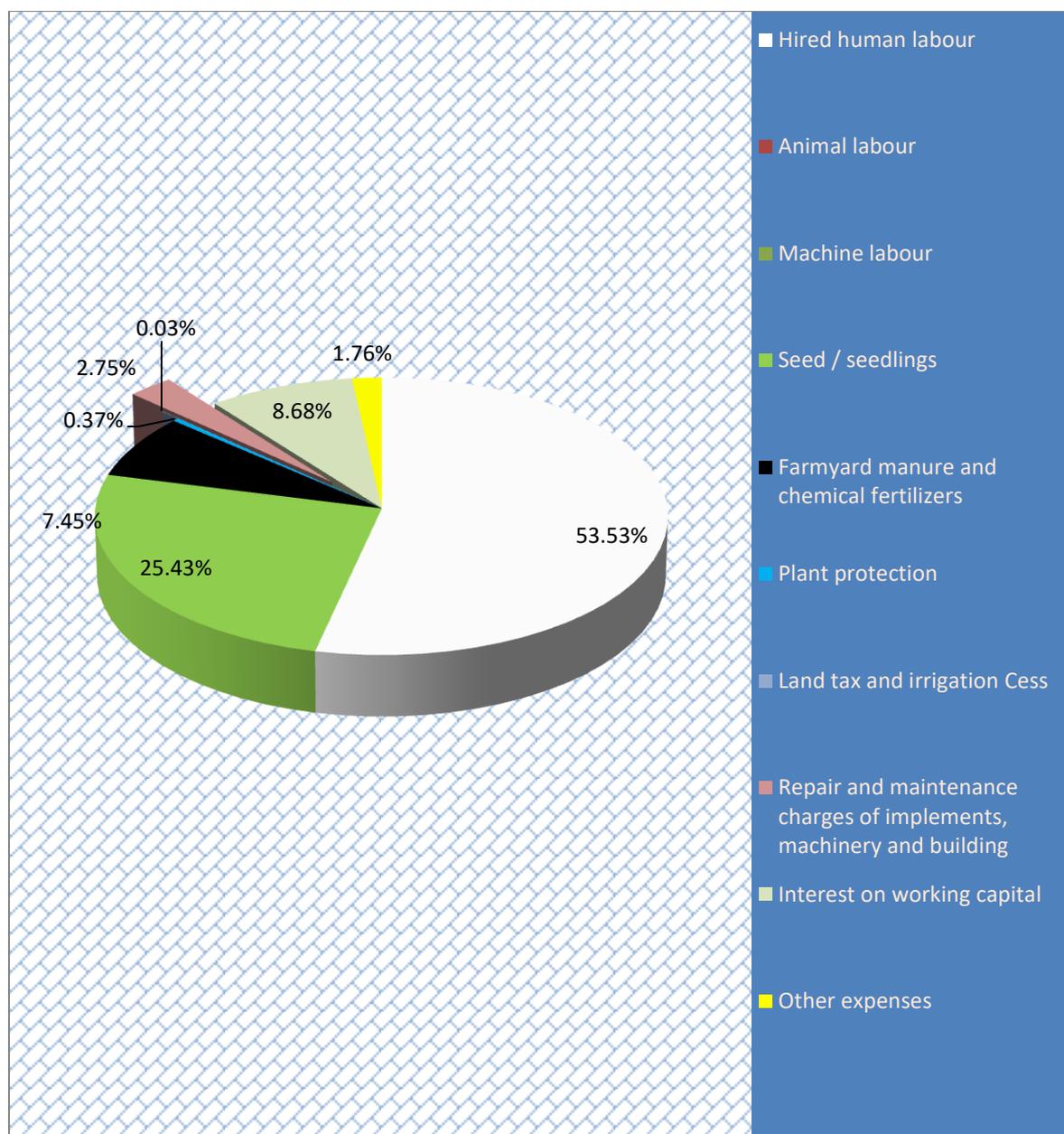
**Cost of Cultivation**

Cost of cultivation of Cabbage (Summer) per hectare is estimated as Rs.292224/- when cost 'A' is considered. Hired human labour gives a share of 53.53% and other expense gives 1.76%. Component wise holding size class details are presented below:

**Table 151: Cost of Cultivation per hectare (in Rs.) of Cabbage (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	156422			156422
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	74326			74326
5	Farmyard manure and chemical fertilizers	21764			21764
6	Plant protection	1081			1081
7	Land tax and irrigation Cess	93			93
8	Repair and maintenance charges of implements, machinery and building	8032			8032
9	Interest on working capital	25359			25359
10	Other expenses	5147			5147
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	292224			292224
12	Interest on fixed capital	33405			33405
<b>13</b>	<b>Cost 'B1' (11+12)</b>	325629			325629
14	Interest on land value	107229			107229
<b>15</b>	<b>Cost 'B' (13+14)</b>	432858			432858
16	Imputed value of household labour				
<b>17</b>	<b>Cost 'C' (15+16)</b>	432858			432858

**Percentage Distribution of “COST A” per hectare of Cabbage (Summer) during 2020-21**



In Cabbage (Summer) cultivation male labour participation accounted as 84.8% of the total labour hours. Details are given below:

**Table 152: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	84.8			84.8
Female	15.2			15.2
<b>Total</b>	<b>100</b>			<b>100</b>

**Table 153: Value of Product and by product per hectare (in Rs) of Cabbage (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
353918			353918

### 2.18.1 Carrot Autumn during 2020-21

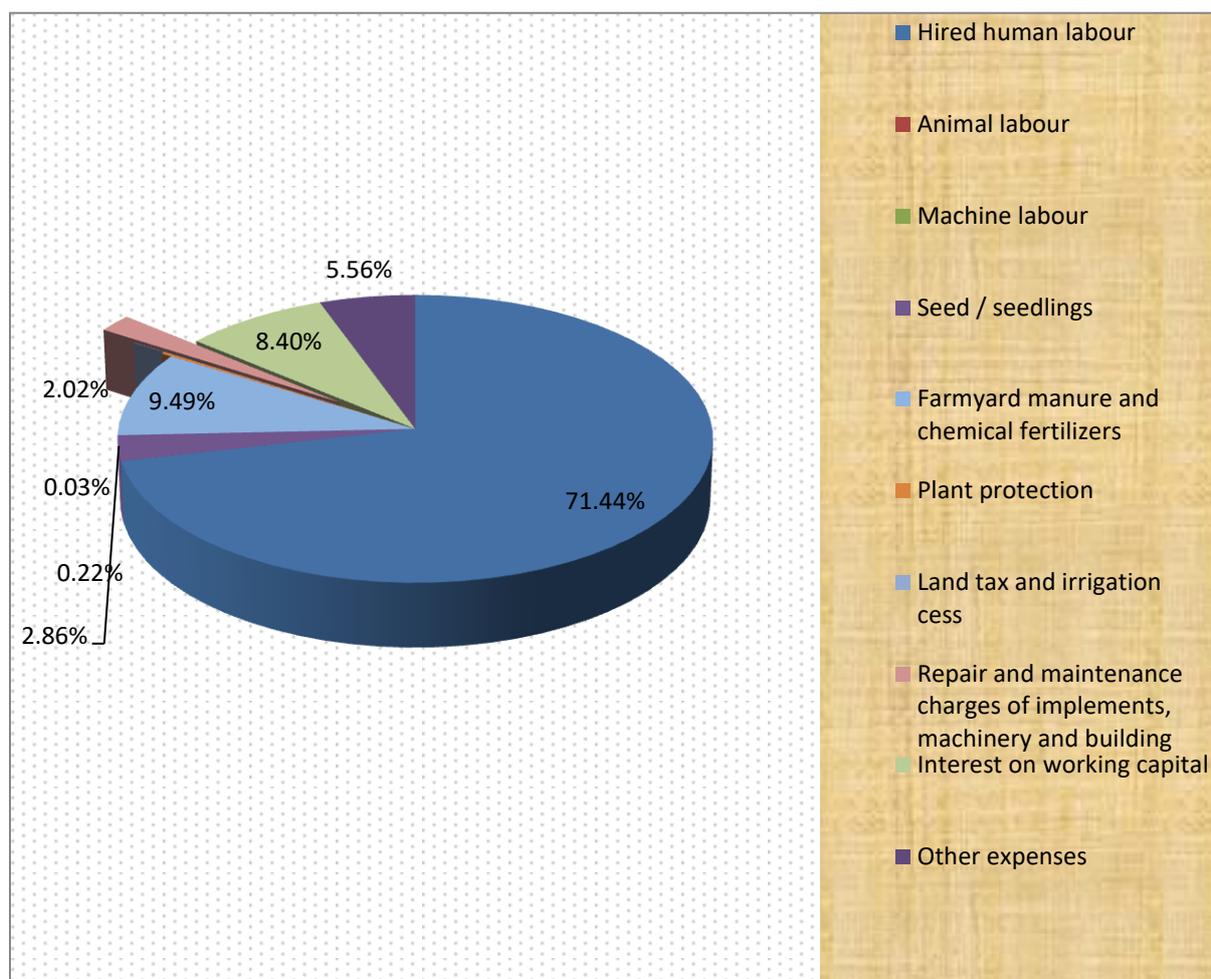
**Table 154: Area and number of holdings under Carrot (Autumn)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	6	0.81	38.03	0.14
Medium	4	1.32	61.97	0.33
Large				
<b>Total</b>	<b>10</b>	<b>2.13</b>	<b>100</b>	<b>0.21</b>

**Table 155- Cost of Cultivation per hectare(in Rs.) of Carrot (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	153733	158445		156650
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	7440	5545		6267
5	Farmyard manure and chemical fertilizers	22656	19657		20800
6	Plant protection	494	459		472
7	Land tax and irrigation cess	46	67		59
8	Repair and maintenance charges of implements, machinery and building	6175	3344		4422
9	Interest on working capital	18432	18411		18419
10	Other expenses	15314	10260		12185
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>224290</b>	<b>216188</b>		<b>219274</b>
12	Interest on fixed capital	13326	13232		13239
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>237616</b>	<b>229420</b>		<b>232513</b>
14	Interest on land value	97689	81996		87974
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>335305</b>	<b>311416</b>		<b>320487</b>
16	Imputed value of household labour				
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>335305</b>	<b>311416</b>		<b>320487</b>

**Percentage Distribution of “COST A” per hectare of Carrot(Autumn) during 2020-21**



**Table 156: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	71.49	66.26		68.2
Female	50	50		31.8
<b>Total</b>	<b>121.49</b>	<b>116.26</b>		<b>100</b>

In Carrot (Autumn) cultivation 31.8% of total labour hours shares to female participation of hired human labour hours.

**Table: 157: Value of product and by-product per hectare (in Rs.) of Carrot-Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
223597	361654		309061

Value of product per hectare of Carrot in Autumn season is estimated as Rs 309061/- whereas the cost of cultivation per hectare is Rs.219274/-.

### 2.18.2 Carrot –Winter during 2020-21

During 2020-21 Cost of cultivation study on Carrot (Winter) season, 10 sample holdings by covering 2.04 hectare selected and the average area per holding covers to 0.20 hectare

**Table 158: Area and number of holdings under Carrot (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	6	0.73	35.78	0.12
Medium	4	1.32	64.71	0.33
Large				
<b>Total</b>	<b>10</b>	<b>2.04</b>	<b>100</b>	<b>0.2</b>

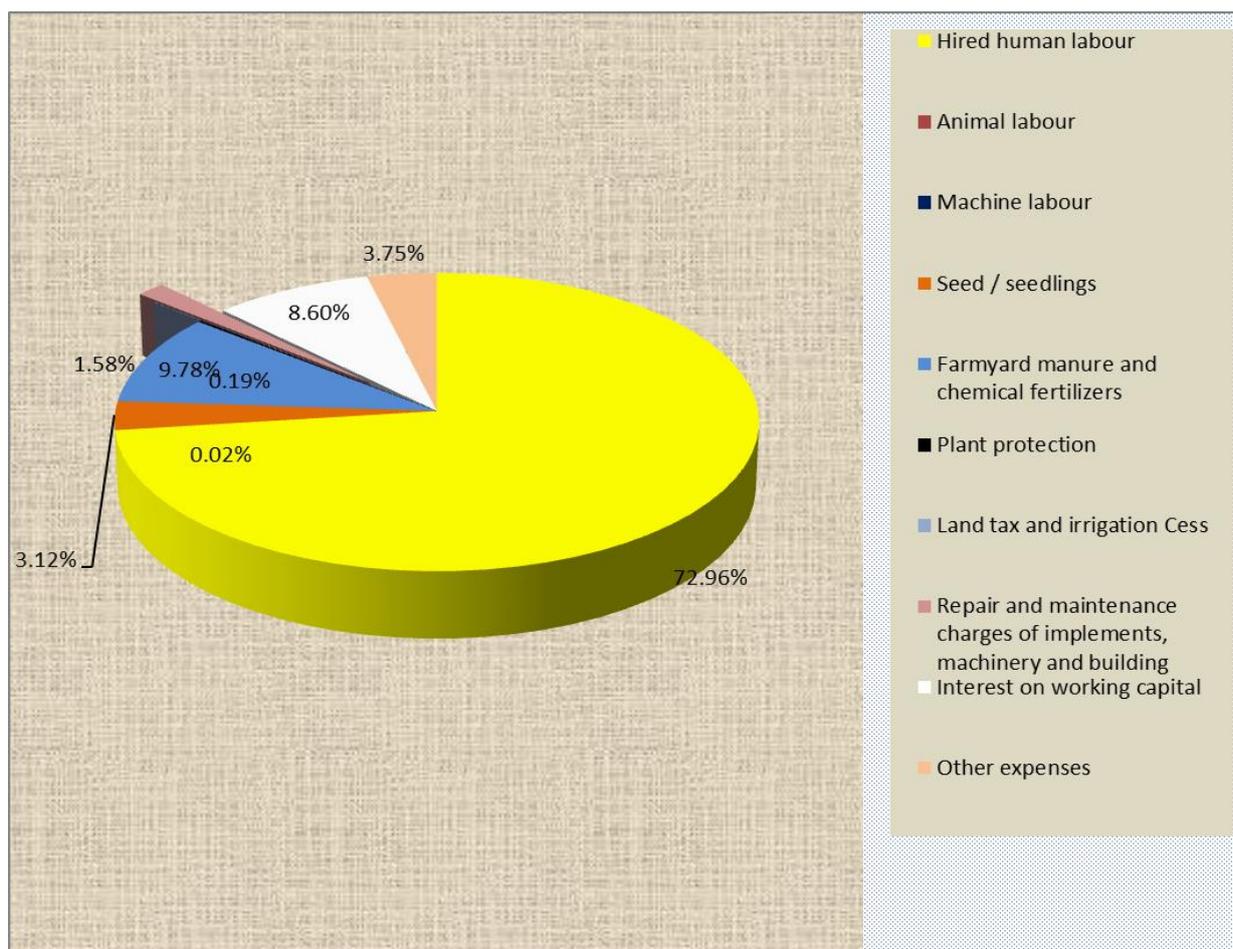
### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 72.96 %. Also farmyard manure and chemical fertilizers account 9.78%. Other expense account was 3.75%. By considering the various cost component of Carrot (Winter) cultivation, per hectare cost calculated as Rs.255161/-

**Table 159: Cost of cultivation per hectare (in Rs.) of Carrot (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	169936	195168		186174
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	7822	8020		7949
5	Farmyard manure and chemical fertilizers	25386	24700		24945
6	Plant protection	494	494		494
7	Land tax and irrigation Cess	51	44		46
8	Repair and maintenance charges of implements, machinery and building	5489	3230		4035
9	Interest on working capital	20364	22838		21956
10	Other expenses	15849	6080		9562
11	<b>Total Cost 'A' (1-10)</b>	245391	260574		255161
12	Interest on fixed capital	13921	12510		13042
13	Cost 'B1' (11+12)	259312	273084		268203
14	Interest on land value	104426	81996		89991
15	<b>Cost 'B' (13+14)</b>	363738	355080		358194
16	Imputed value of household labour				
17	<b>Cost 'C' (15+16)</b>	363738	355080		358194

**Percentage Distribution of “COST A” per hectare of Carrot (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Carrot (Winter) cultivation shown below reveals that 10.14% of work shared by Female whereas percentage share to male workers is 89.86%.

**Table 160: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	80.77	94.42		89.86
Female	50	50		10.14
<b>Total</b>	<b>130.77</b>	<b>144.42</b>		<b>100</b>

**Output****Table: 161: Value of Product and By product per hectare (in Rs) of Carrot (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
242403	304076		282094

**2.18.3 Carrot -Summer during 2020-21**

For the cost of cultivation study on Carrot (summer) during 2020-21 the total number of sample holdings selected was 10. The details of these holdings are presented below:

**Table 162: Area and number of holdings under Carrot -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	10	0.5	100	0.05
Medium				
Large				
<b>Total</b>	<b>10</b>	<b>0.5</b>	<b>100</b>	<b>0.05</b>

The total area under cultivation in the selected sample holdings covers 0.50 hectares and the average size of a holding is 0.05 hectare

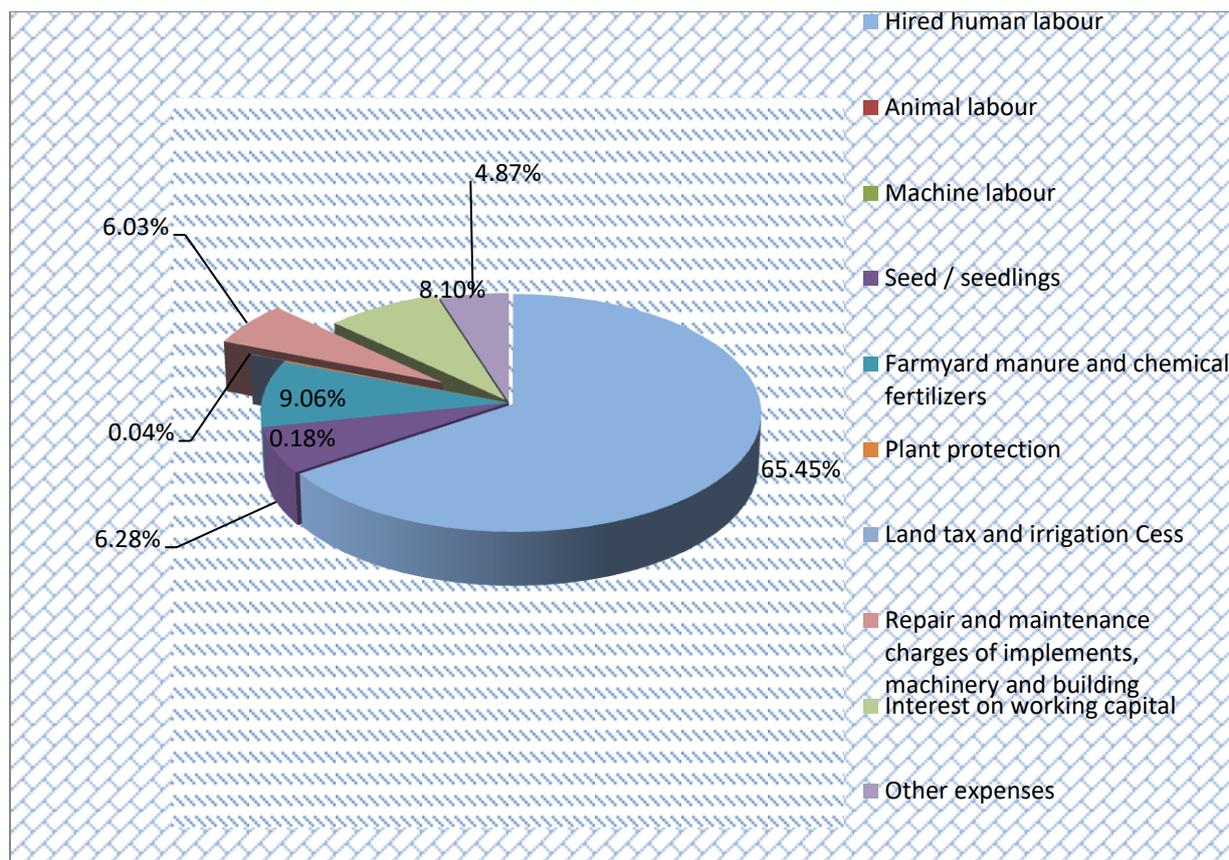
**Cost of Cultivation**

Cost of cultivation of Carrot (Summer) per hectare is estimated as Rs.268283/- when cost 'A' is considered. Hired human labour gives a share of 65.45% and other expense gives 4.87%. Component wise holding size class details are presented below:

**Table 163: Cost of Cultivation per hectare (in Rs.) of Carrot (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	175591			175591
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	16856			16856
5	Farmyard manure and chemical fertilizers	24298			24298
6	Plant protection	486			486
7	Land tax and irrigation Cess	111			111
8	Repair and maintenance charges of implements, machinery and building	16165			16165
9	Interest on working capital	21723			21723
10	Other expenses	13053			13053
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	268283			268283
12	Interest on fixed capital	54830			54830
<b>13</b>	<b>Cost 'B1' (11+12)</b>	323113			323113
14	Interest on land value	106051			106051
<b>15</b>	<b>Cost 'B' (13+14)</b>	429164			429164
16	Imputed value of household labour				
<b>17</b>	<b>Cost 'C' (15+16)</b>	429164			429164

**Percentage Distribution of “COST A” per hectare of Carrot(Summer) during 2020-21**



In Carrot (Summer) cultivation male labour participation accounted as 85.28 % of the total labour hours. Details are given below:

**Table 164: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	85.28			85.28
Female	14.72			14.72
<b>Total</b>	<b>100</b>			<b>100</b>

**Table 165: Value of Product and by product per hectare (in Rs) of Carrot (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
341001			341001

**2.19.1 Potato Autumn during 2020-21****Table 166 :Area and number of holdings under Potato Autumn**

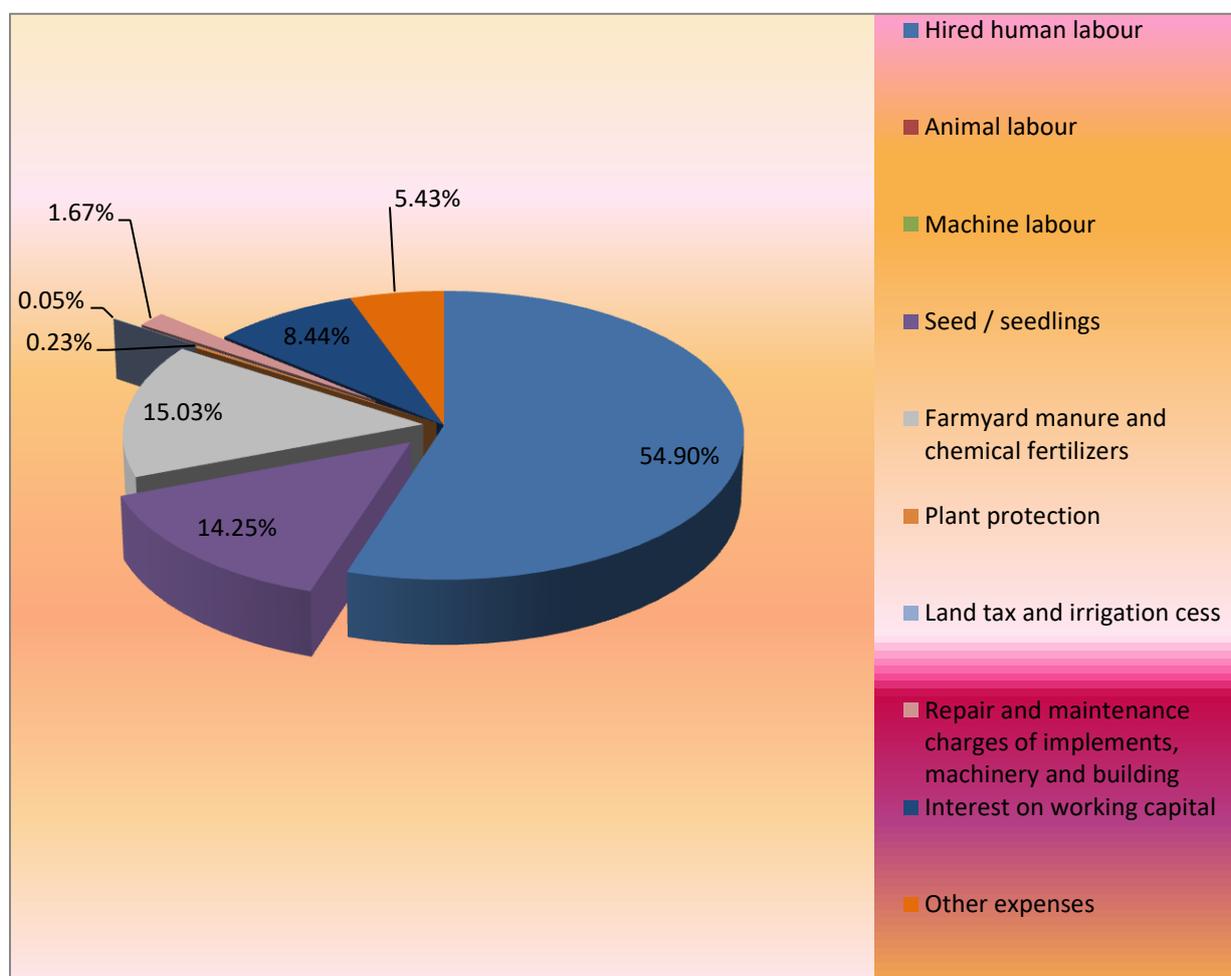
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Average area per holding (ha)
Small	5	0.55	20.3	0.11
Medium	4	0.95	35.06	0.24
Large	1	1.21	44.65	1.21
<b>Total</b>	<b>10</b>	<b>2.71</b>	<b>100</b>	<b>0.27</b>

**Table 167: Cost of Cultivation per hectare (in Rs.) of Potato (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	131331	112338	87603	105089
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	32073	27795	24700	27271
5	Farmyard manure and chemical fertilizers	28140	32331	26264	28770
6	Plant protection	73	1211		439
7	Land tax and irrigation cess	50	92	124	98
8	Repair and maintenance charges of implements, machinery and building	8050	2806	1317	3196

9	Interest on working capital	19162	17367	13857	16157
10	Other expenses	33299	9460	823	10396
<b>11</b>	<b>Total cost 'A' (1-10)</b>	<b>252178</b>	<b>203400</b>	<b>154688</b>	<b>191416</b>
12	Interest on fixed capital	23465	17689	741	11275
<b>13</b>	<b>Cost 'B1' (11+12)</b>	<b>275643</b>	<b>221089</b>	<b>155429</b>	<b>202691</b>
14	Interest on land value	94994	90917	98800	95268
<b>15</b>	<b>Cost 'B' (13+14)</b>	<b>370637</b>	<b>312006</b>	<b>254229</b>	<b>297959</b>
16	Imputed value of household labour	7684			1548
<b>17</b>	<b>Cost 'C' (15+16)</b>	<b>378321</b>	<b>312006</b>	<b>254229</b>	<b>299507</b>

Percentage Distribution of "COST A" per hectare of Potato (Autumn) during 2020-21



**Table 168: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	74.7	71.15	63.68	69.27
Female	44.78	50	50	29.49
<b>Total</b>	<b>119.48</b>	<b>121.15</b>	<b>113.68</b>	<b>98.76</b>

In Potato (Autumn) cultivation 29.49% of total labour hours shares to female participation of hired human labour hours.

**Table: 169: Value of product and by-product per hectare (in Rs.) of Potato-Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
258710	261715	263467	261894

Value of product per hectare of Potato in Autumn season is estimated as Rs 261894/- whereas the cost of cultivation per hectare is Rs.191416/-.

### 2.19.2 Potato –Winter during 2020-21

During 2020-21 Cost of cultivation study on Potato (Winter) season, 10 sample holdings by covering 1.6 hectare selected and the average area per holding covers to 0.16 hectare.

**Table 170 : Area and number of holdings under Potato (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	6	0.65	40.63	0.11
Medium	4	0.95	59.38	0.24
Large				
<b>Total</b>	<b>10</b>	<b>1.6</b>	<b>100</b>	<b>0.16</b>

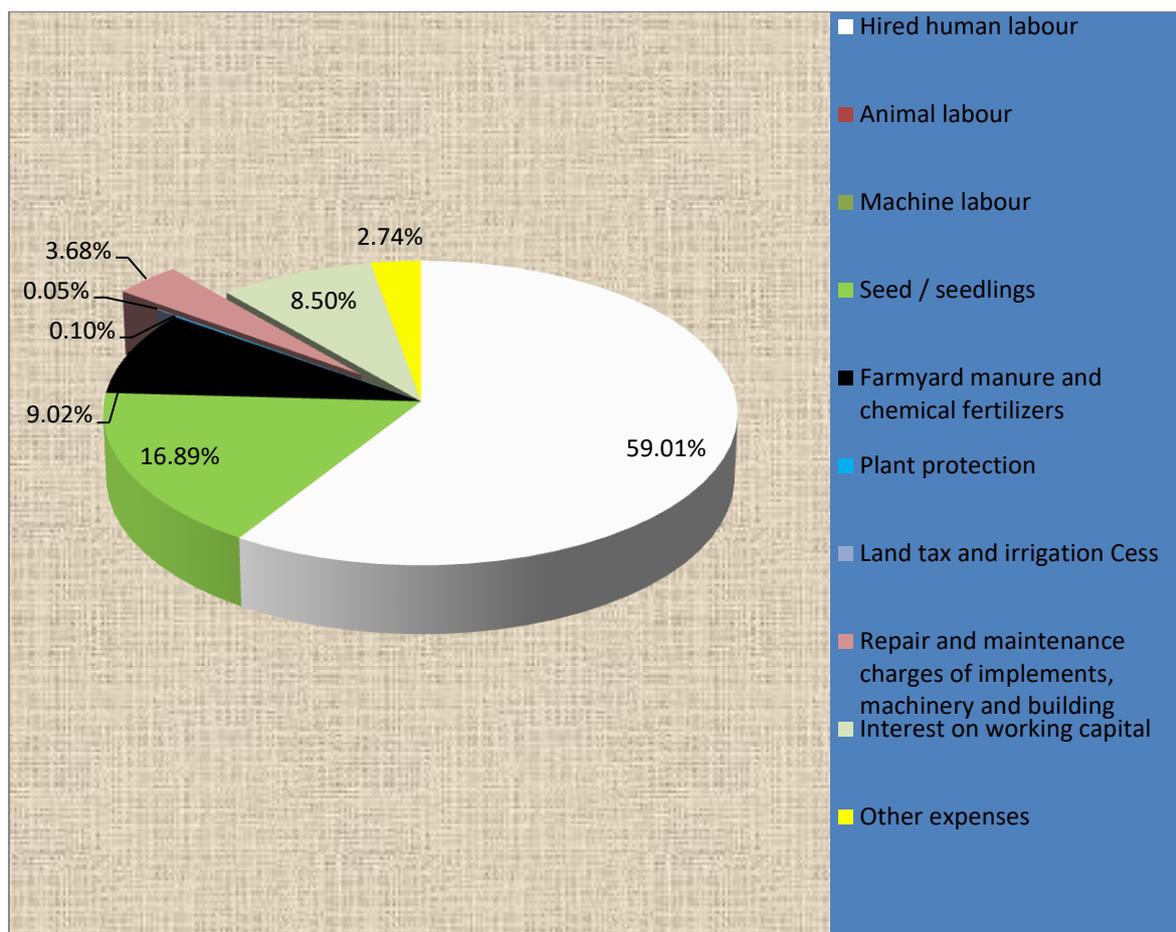
### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 59.01%. Also farmyard manure and chemical fertilizers account 9.02%. Other expense account was 2.74%. By considering the various cost component of Potato (Winter) cultivation, per hectare cost calculated as Rs.186933/-

**Table 171– Cost of cultivation per hectare (in Rs.) of Potato (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	118560	104686		110306
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	29532	32972		31578
5	Farmyard manure and chemical fertilizers	20331	14505		16865
6	Plant protection	62	265		183
7	Land tax and irrigation Cess	108	97		102
8	Repair and maintenance charges of implements, machinery and building	8259	5939		6878
9	Interest on working capital	16848	15243		15893
10	Other expenses	11115	1051		5128
11	<b>Total Cost 'A' (1-10)</b>	204815	174758		186933
12	Interest on fixed capital	27363	19870		22894
13	Cost 'B1' (11+12)	232178	194628		209827
14	Interest on land value	96207	98064		97312
15	<b>Cost 'B' (13+14)</b>	328385	292692		307139
16	Imputed value of household labour	7719			3127
17	<b>Cost 'C' (15+16)</b>	336104	292692		310266

**Percentage Distribution of “COST A” per hectare of Potato (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Potato (Winter) cultivation shown below reveals that 24.14% of work shared by Female whereas percentage share to male workers is 73.28%.

**Table 172 – Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	74.19	72.54		73.28
Female	43.66	50		24.14
<b>Total</b>	<b>117.85</b>	<b>122.54</b>		<b>97.42</b>

**Output****Table: 173- Value of Product and By product per hectare (in Rs)of Potato (Winter) 2020-2**

Holding Size Class			
Small	Medium	Large	All Sizes
258532	269020		264771

**2.20.1 Beans Autumn during 2020-21****Table 174: Area and number of holdings under Beans Autumn**

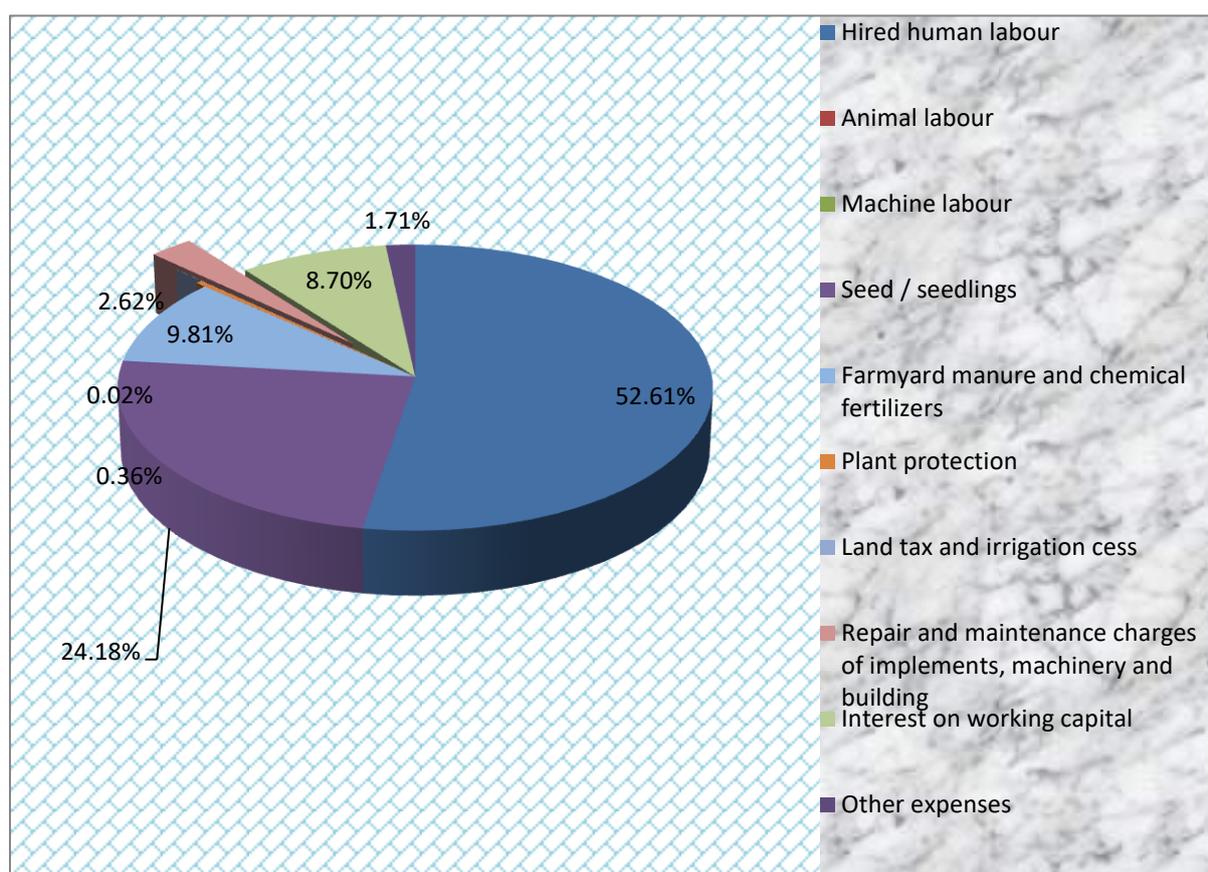
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	4	0.3	12.66	0.08
Medium	6	2.06	86.92	0.34
Large				
<b>Total</b>	<b>10</b>	<b>2.37</b>	<b>100</b>	<b>0.24</b>

**Table 175- Cost of Cultivation per hectare (in Rs.) of Beans (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	113818	84852		88565
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	54669	38648		40702
5	Farmyard manure and chemical fertilizers	26511	15038		16509
6	Plant protection	1350	494		604
7	Land tax and irrigation cess	82	33		39
8	Repair and maintenance charges of implements, machinery and building	10703	3487		4412
9	Interest on working capital	19635	13903		14638

10	Other expenses	8233	2083		2871
<b>11</b>	<b>Total cost 'A' (1-10)</b>	235001	158538		168340
12	Interest on fixed capital	5780	13043		12103
<b>13</b>	<b>Cost 'B1' (11+12)</b>	240781	171581		180443
14	Interest on land value	100447	81629		84041
<b>15</b>	<b>Cost 'B' (13+14)</b>	341228	253210		264484
16	Imputed value of household labour				
<b>17</b>	<b>Cost 'C' (15+16)</b>	341228	253210		264484

**Percentage Distribution of "COST A" per hectare of Beans (Autumn) during 2020-21**



**Table 176: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	67.65	64.2		64.77
Female	50	50		35.23
<b>Total</b>	<b>117.65</b>	<b>114.2</b>		<b>100</b>

In Beans (Autumn) cultivation 35.23% of total labour hours shares to female participation of hired human labour hours.

**Table: 177: Value of product and by-product per hectare (in Rs.) of Beans-Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
292711	260076		264260

Value of product per hectare of Beans in Autumn season is estimated as Rs264260/- whereas the cost of cultivation per hectare is Rs.168340/-.

### 2.20.2 Beans–Winter during 2020-21

During 2020-21 Cost of cultivation study on Beans (Winter) season, 10 sample holdings by covering 2.37 hectare selected and the average area per holding covers to 0.24 hectare.

**Table 178: Area and number of holdings under Beans (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	4	0.3	12.66	0.08
Medium	6	2.06	86.92	0.34
Large				
<b>Total</b>	<b>10</b>	<b>2.37</b>	<b>100</b>	<b>0.24</b>

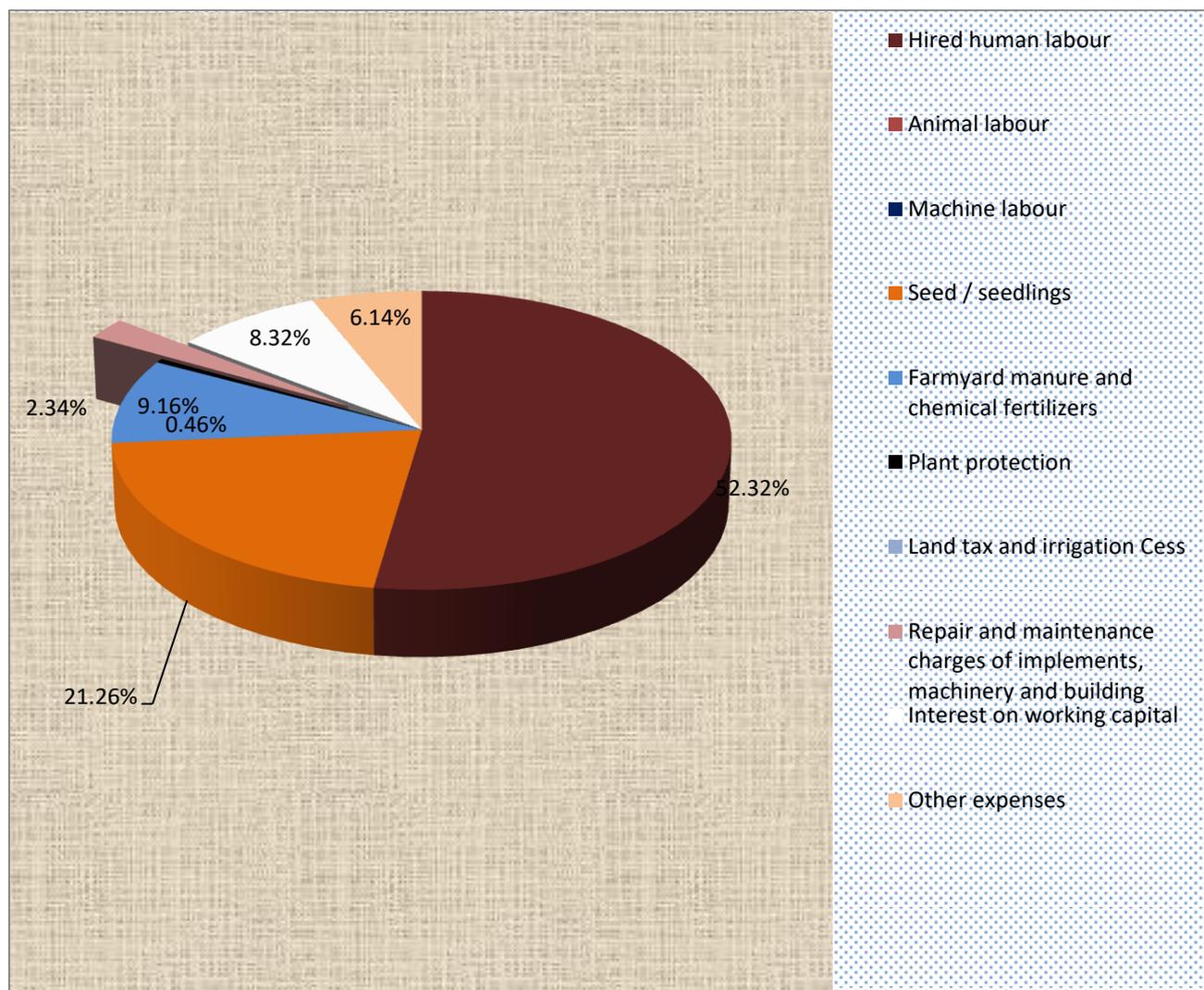
### Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 52.32%. Also farmyard manure and chemical fertilizers account 9.16%. Other expense account was 6.14%. By considering the various cost component of Beans (Winter) cultivation, per hectare cost calculated as Rs.158938/-.

**Table 179: Cost of cultivation per hectare (in Rs.) of Beans (Winter)**

SI No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	108548	79854		83532
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	43472	32546		33947
5	Farmyard manure and chemical fertilizers	25359	13052		14630
6	Plant protection	2338	494		730
7	Land tax and irrigation Cess				
8	Repair and maintenance charges of implements, machinery and building	6751	3293		3737
9	Interest on working capital	17972	12595		13284
10	Other expenses	23053	7023		9078
11	<b>Total Cost 'A' (1-10)</b>	227493	148857		158938
12	Interest on fixed capital	2108	12687		11323
13	Cost 'B1' (11+12)	229601	161544		170261
14	Interest on land value	129263	81629		87736
15	<b>Cost 'B' (13+14)</b>	358864	243173		257997
16	Imputed value of household labour				
17	<b>Cost 'C' (15+16)</b>	358864	243173		257997

**Percentage Distribution of “COST A” per hectare of Beans (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Beans (Winter) cultivation shown below reveals that 38.54% of work shared by Female whereas percentage share to male workers is 61.46 %.

**Table 180– Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	71.88	59.46		61.46
Female	50	50		38.54
<b>Total</b>	<b>121.88</b>	<b>109.46</b>		<b>100</b>

**Output****Table: 181- Value of Product and By product per hectare (in Rs)of Beans (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
273939	246467		249989

**2.20.3 Beans - Summer during 2020-21**

For the cost of cultivation study on Beans (summer) during 2020-21 the total number of sample holdings selected was 10. The details of these holdings are presented below:

**Table 182: Area and number of holdings under Beans -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	7	0.45	41.28	0.06
Medium	3	0.65	59.63	0.22
Large				
<b>Total</b>	<b>10</b>	<b>1.09</b>	<b>100</b>	<b>0.11</b>

The total area under cultivation in the selected sample holdings covers 1.09 hectares and the average size of a holding is 0.11 hectare

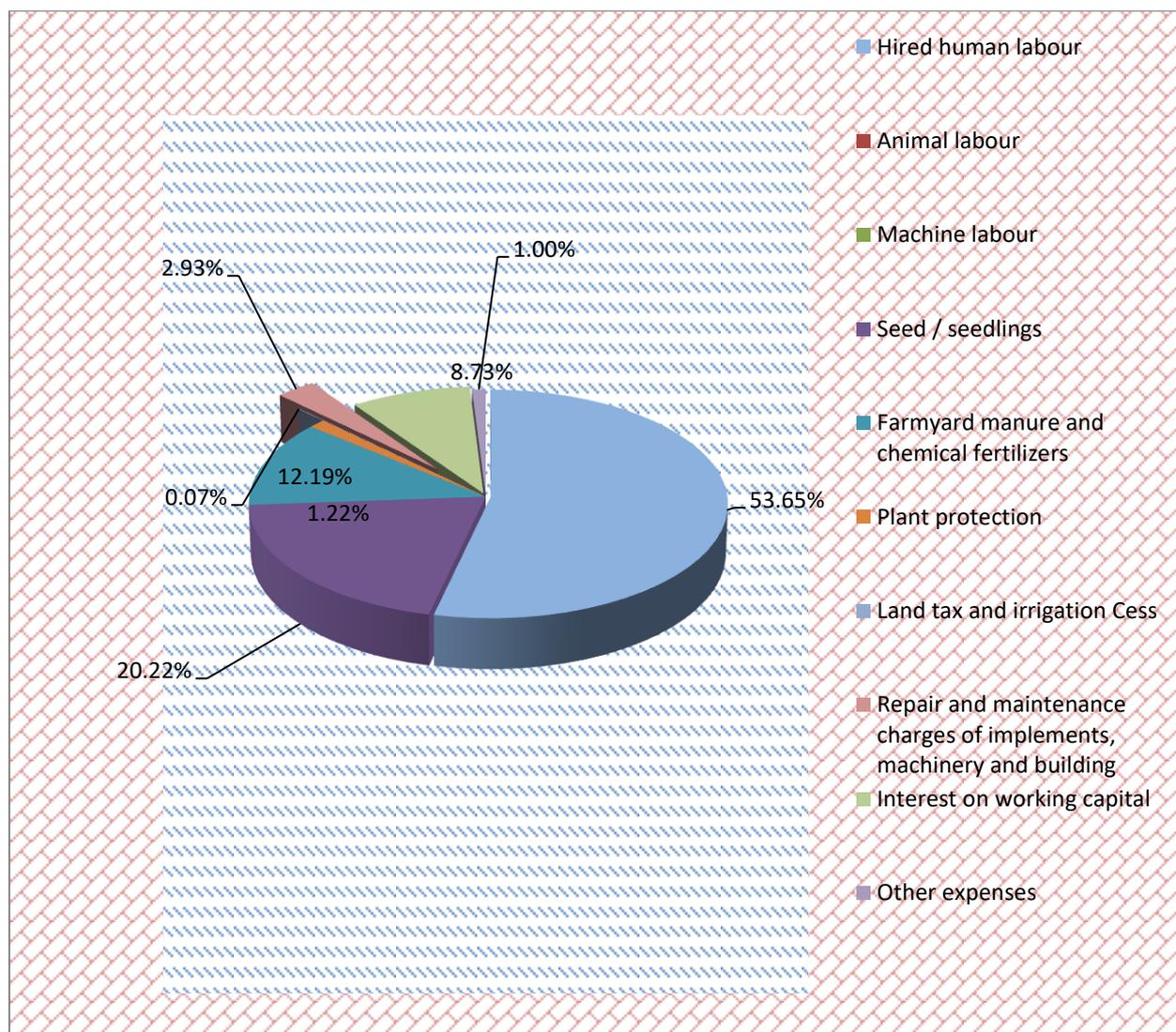
**Cost of Cultivation**

Cost of cultivation of Beans (Summer) per hectare is estimated as Rs.183899/- when cost 'A' is considered. Hired human labour gives a share of 53.65% and other expense gives 1.00%. Component wise holding size class details are presented below:

**Table 183: Cost of Cultivation per hectare (in Rs.) of Beans (Summer)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	118740	84844		98654
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	44123	32419		37187
5	Farmyard manure and chemical fertilizers	27619	18834		22413
6	Plant protection	4792	494		2245
7	Land tax and irrigation Cess	123	123		123
8	Repair and maintenance charges of implements, machinery and building	8757	3087		5397
9	Interest on working capital	19527	13659		16050
10	Other expenses	4491			1830
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	228172	153460		183899
12	Interest on fixed capital	60717	787		25275
<b>13</b>	<b>Cost 'B1' (11+12)</b>	288889	154247		209174
14	Interest on land value	108455	136622		125147
<b>15</b>	<b>Cost 'B' (13+14)</b>	397344	290869		334321
16	Imputed value of household labour	17065			6953
<b>17</b>	<b>Cost 'C' (15+16)</b>	414409	290869		341274

**Percentage Distribution of “COST A” per hectare of Beans(Summer) during 2020-21**



In Beans (Summer) cultivation male labour participation accounted as 47.7% of the total labour hours. Details are given below:

**Table 184: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	46.77	48.7		47.7
Female	43.59	50		46.03
<b>Total</b>	<b>90.36</b>	<b>98.7</b>		<b>93.73</b>

**Table 185: Value of Product and by product per hectare (in Rs) of Beans (Summer) during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
299912	277257		286487

**2.21.1 Garlic Autumn during 2020-21****Table 186 – Area and number of holdings under Garlic Autumn**

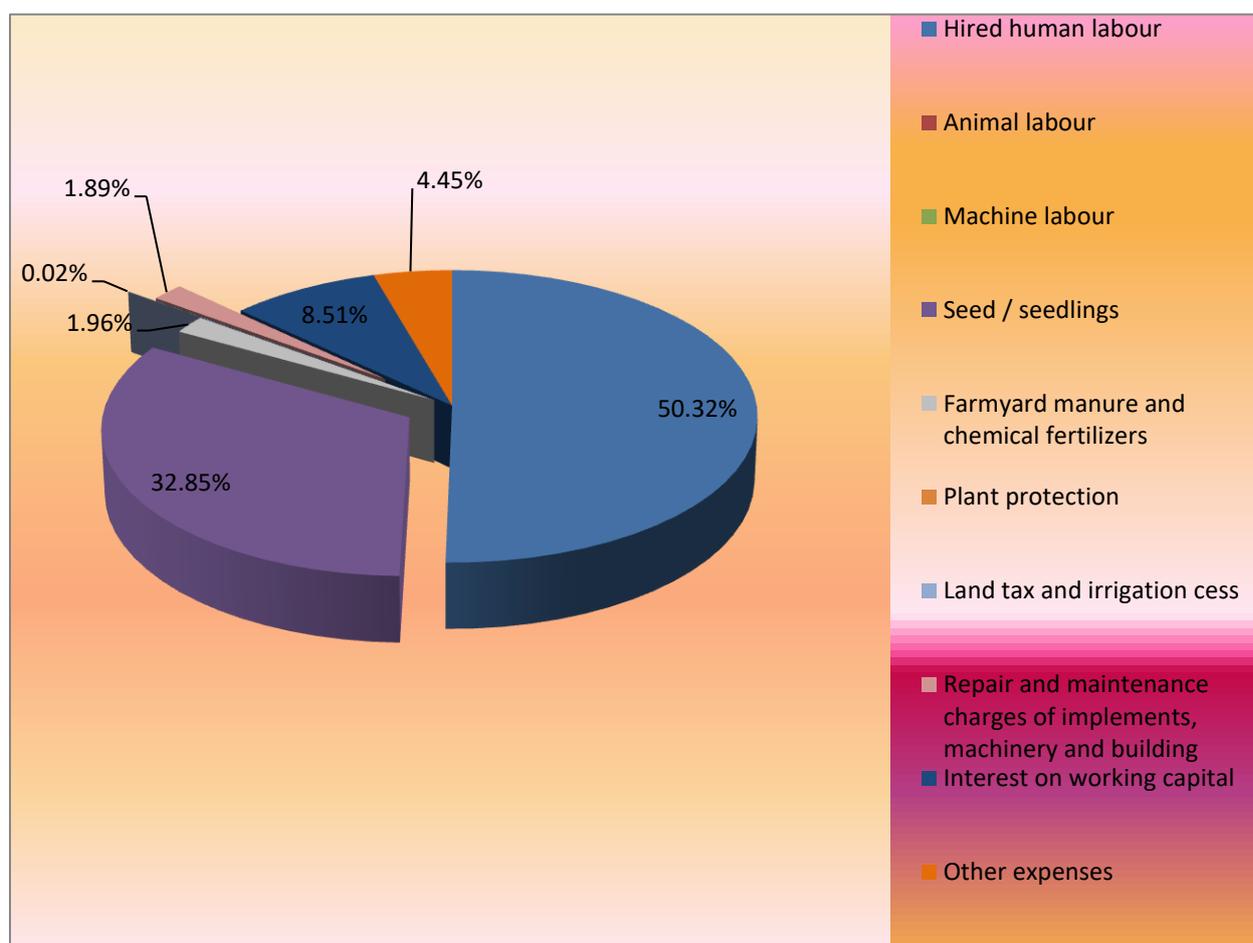
Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	5	0.69	40.59	0.14
Medium	5	1.01	59.41	0.2
Large				
<b>Total</b>	<b>10</b>	<b>1.7</b>	<b>100</b>	<b>0.17</b>

**Table 187- Cost of Cultivation per hectare (in Rs.) of Garlic (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	207712	168434		184333
2	Animal labour				
3	Machine labour				
4	Seed / seedlings	116235	123154		120354
5	Farmyard manure and chemical fertilizers	9154	5829		7175
6	Plant protection				
7	Land tax and irrigation cess	18	99		66
8	Repair and maintenance charges of implements, machinery and building	7410	6620		6940
9	Interest on working capital	33310	29742		31186
10	Other expenses	24991	10374		16290

<b>11</b>	<b>Total cost 'A' (1-10)</b>	398830	344252		366344
12	Interest on fixed capital	13091	26310		20965
<b>13</b>	<b>Cost 'B1' (11+12)</b>	411921	370562		387309
14	Interest on land value	93134	88668		90476
<b>15</b>	<b>Cost 'B' (13+14)</b>	505055	459230		477785
16	Imputed value of household labour		2766		1647
<b>17</b>	<b>Cost 'C' (15+16)</b>	505055	461996		479432

**Percentage Distribution of "COST A" per hectare of Garlic (Autumn) during 2020-21**



**Table 188: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	67.97	54.52		60.47
Female	50	49.21		38.74
<b>Total</b>	<b>117.97</b>	<b>103.73</b>		<b>99.21</b>

In Garlic (Autumn) cultivation 38.74% of total labour hours shares to female participation of hired human labour hours.

**Table: 189: Value of product and by-product per hectare (in Rs.) of Garlic -Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
520226	549032		537372

Value of product per hectare of Garlic in Autumn season is estimated as Rs537372/- whereas the cost of cultivation per hectare is Rs.366344/-.

### 2.22.1 Tomato Autumn during 2020-21

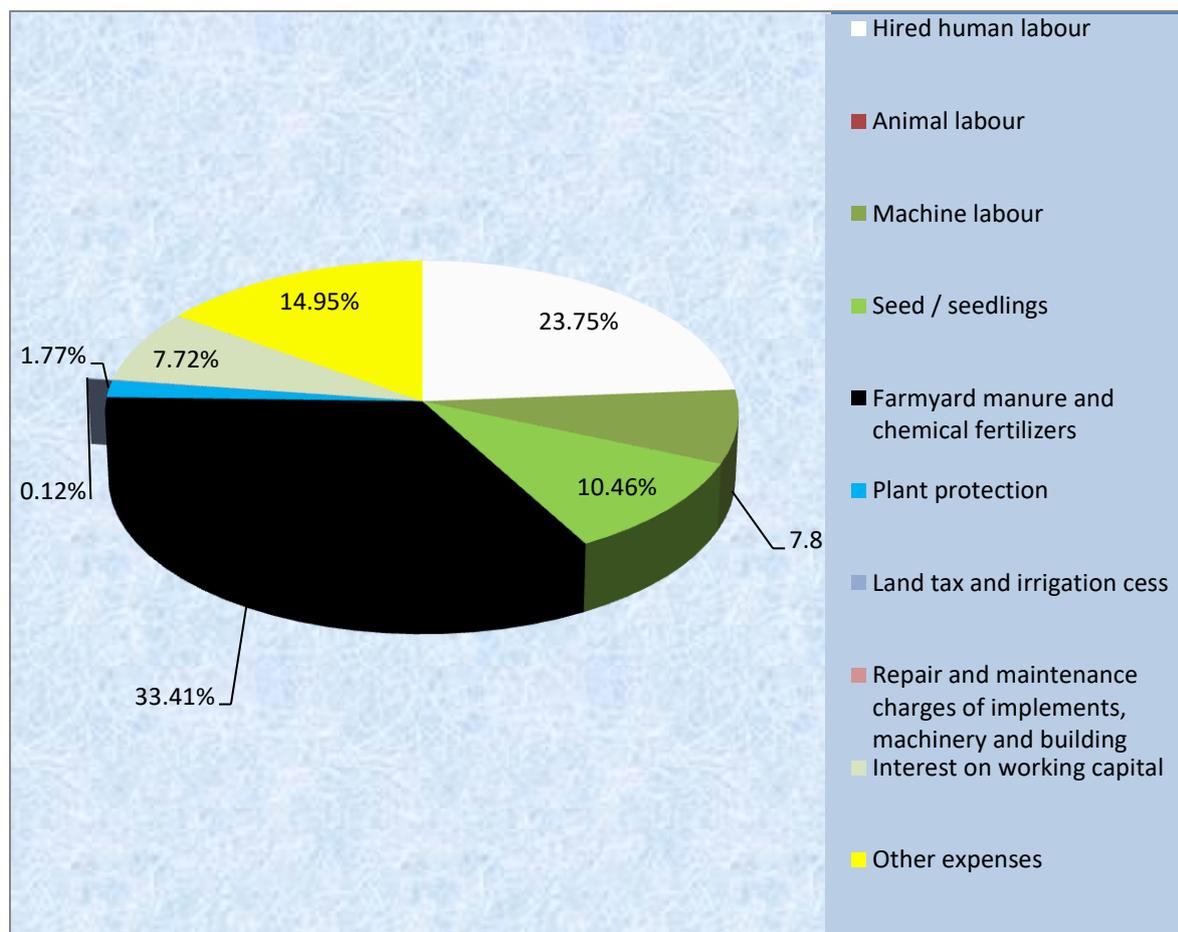
**Table 190: Area and number of holdings under Tomato (Autumn)**

Holding size class	No. of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	1	0.08	3.32	0.08
Medium	8	2.33	96.68	0.29
Large				
<b>Total</b>	<b>9</b>	<b>2.41</b>	<b>100</b>	<b>0.27</b>

**Table 191- Cost of Cultivation per hectare (in Rs.) of Tomato (Autumn)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour		33399		32276
2	Animal labour				
3	Machine labour		10986		10617
4	Seed / seedlings	6793	14476		14218
5	Farmyard manure and chemical fertilizers		46987		45407
6	Plant protection		2491		2408
7	Land tax and irrigation cess	161	162		162
8	Repair and maintenance charges of implements, machinery and building				
9	Interest on working capital	679	10834		10493
10	Other expenses	9880	20684		20320
<b>11</b>	<b>Total cost 'A' (1-10)</b>	17513	140019		135901
12	Interest on fixed capital	432	11673		11290
<b>13</b>	<b>Cost 'B1' (11+12)</b>	17945	151692		147191
14	Interest on land value	189696	98852		101906
<b>15</b>	<b>Cost 'B' (13+14)</b>	207641	250544		249097
16	Imputed value of household labour	66690	31283		32473
<b>17</b>	<b>Cost 'C' (15+16)</b>	274331	281827		281570

**Percentage Distribution of “COST A” per hectare of Tomato (Autumn) during 2020-21**



**Table 192: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male		2.88		2.88
Female		50.25		50.25
<b>Total</b>		<b>53.13</b>		<b>53.13</b>

In Tomato (Autumn) cultivation 50.25% of total labour hours shares to female participation of hired human labour hours.

**Table: 193: Value of product and by-product per hectare (in Rs.) of Tomato -Autumn 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
163298	262276		258949

Value of product per hectare of Tomato in Autumn season is estimated as Rs.258949/-whereas the cost of cultivation per hectare is Rs.135901/-.

### 2.22.2 Tomato–Winter during 2020-21

During 2020-21 Cost of cultivation study on Tomato (Winter) season, 20 sample holdings by covering 3.99 hectare selected and the average area per holding covers to 0.20 hectare

**Table 194: – Area and number of holdings under Tomato (Winter)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage Area	Area per holding (ha)
Small	9	0.77	19.3	0.09
Medium	11	3.22	80.7	0.29
Large				
<b>Total</b>	<b>20</b>	<b>3.99</b>	<b>100</b>	<b>0.2</b>

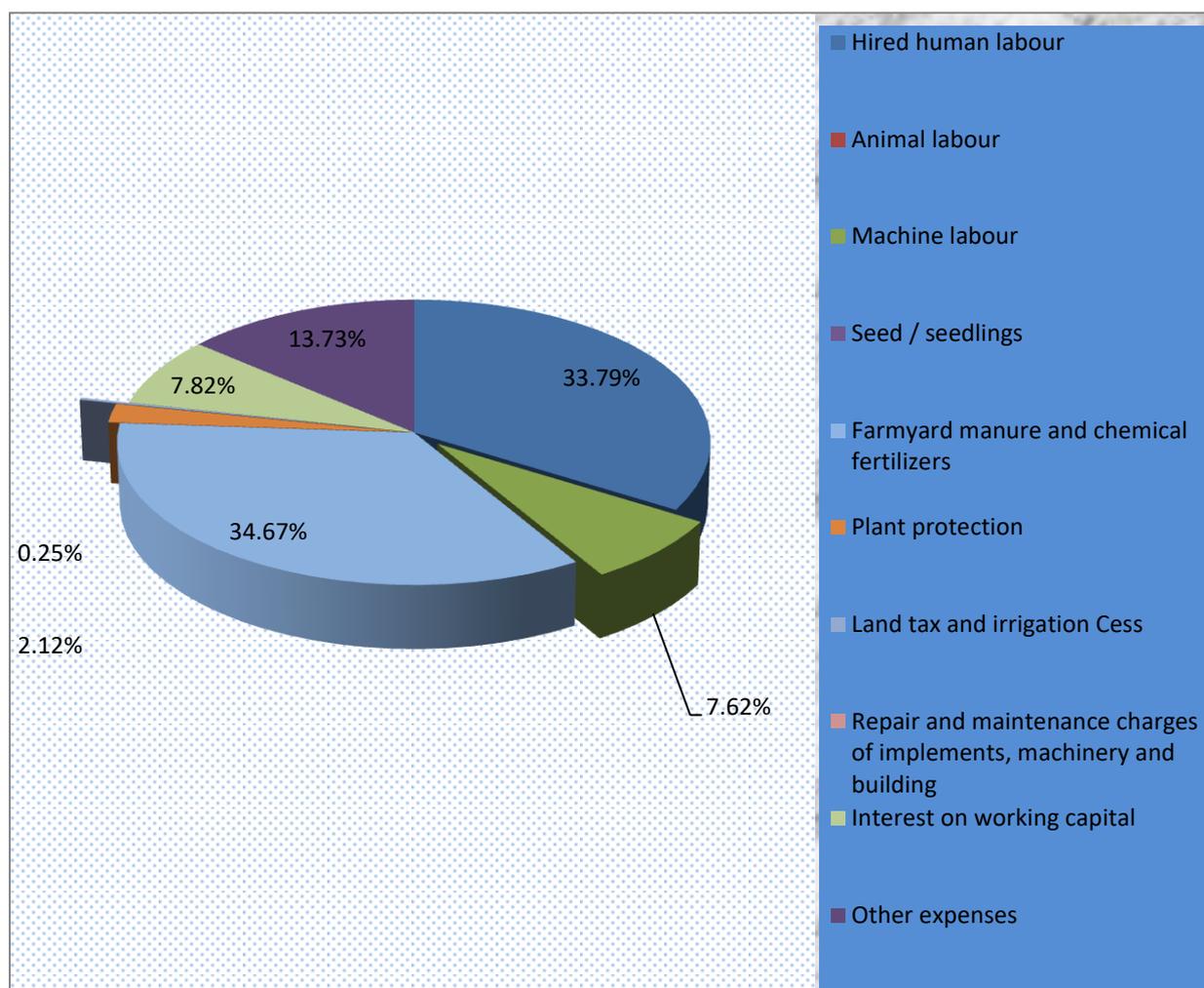
### Cost of Cultivation

Cost of cultivation of Tomato (Winter) per hectare is estimated as Rs.128492/- when cost 'A' is considered. Hired human labour gives a share of 33.79% and other expense gives 13.73%. Component wise holding size class details are presented below:

**Table 195:– Cost of cultivation per hectare(in Rs.) of Tomato (Winter)**

Sl No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour	4680	46876		38736
2	Animal labour				
3	Machine labour	3919	9880		8730
4	Seed / seedlings	10374	13142		12608
5	Farmyard manure and chemical fertilizers	22379	43886		39737
6	Plant protection	910	2799		2434
7	Land tax and irrigation Cess	229	295		282
8	Repair and maintenance charges of implements, machinery and building				
9	Interest on working capital	4226	11658		10225
10	Other expenses	13299	16324		15740
11	<b>Total Cost 'A' (1-10)</b>	60016	144860		128492
12	Interest on fixed capital	25402	19111		20313
13	Cost 'B1' (11+12)	85418	163971		148805
14	Interest on land value	146652	105984		113829
15	<b>Cost 'B' (13+14)</b>	232070	269955		262634
16	Imputed value of household labour	90415	15061		29596
17	<b>Cost 'C' (15+16)</b>	322485	285016		292230

**Percentage Distribution of “COST A” per hectare of Tomato (Winter) during 2020-21**



Sex wise work participation percentage of hired human labours for Tomato (Winter) cultivation shown below reveals that 55.55% of work shared by Female whereas percentage share to male workers is 3.42%.

**Table 196:– Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male		4.7		3.42
Female	4.73	43.83		55.55
<b>Total</b>	<b>4.73</b>	<b>48.53</b>		<b>58.97</b>

## Output

**Table: 197: - Value of Product and By product per hectare (in Rs) of Tomato (Winter) 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
268210	251640		254837

### 2.22.3 Tomato-Summer during 2020-21

For the cost of cultivation study on Tomato (summer) during 2020-21 the total number of sample holdings selected was 10. The details of these holdings are presented below

**Table 198: Area and number of holdings under Tomato -(Summer)**

Holding size class	No of selected holdings	Area under the crop in the sample (ha)	Percentage	Area per holding (ha)
Small	1	0.14	4.73	0.14
Medium	9	2.81	94.93	0.31
Large				
<b>Total</b>	<b>10</b>	<b>2.96</b>	<b>100</b>	<b>0.3</b>

The total area under cultivation in the selected sample holdings covers 2.96 hectares and the average size of a holding is 0.30 hectare.

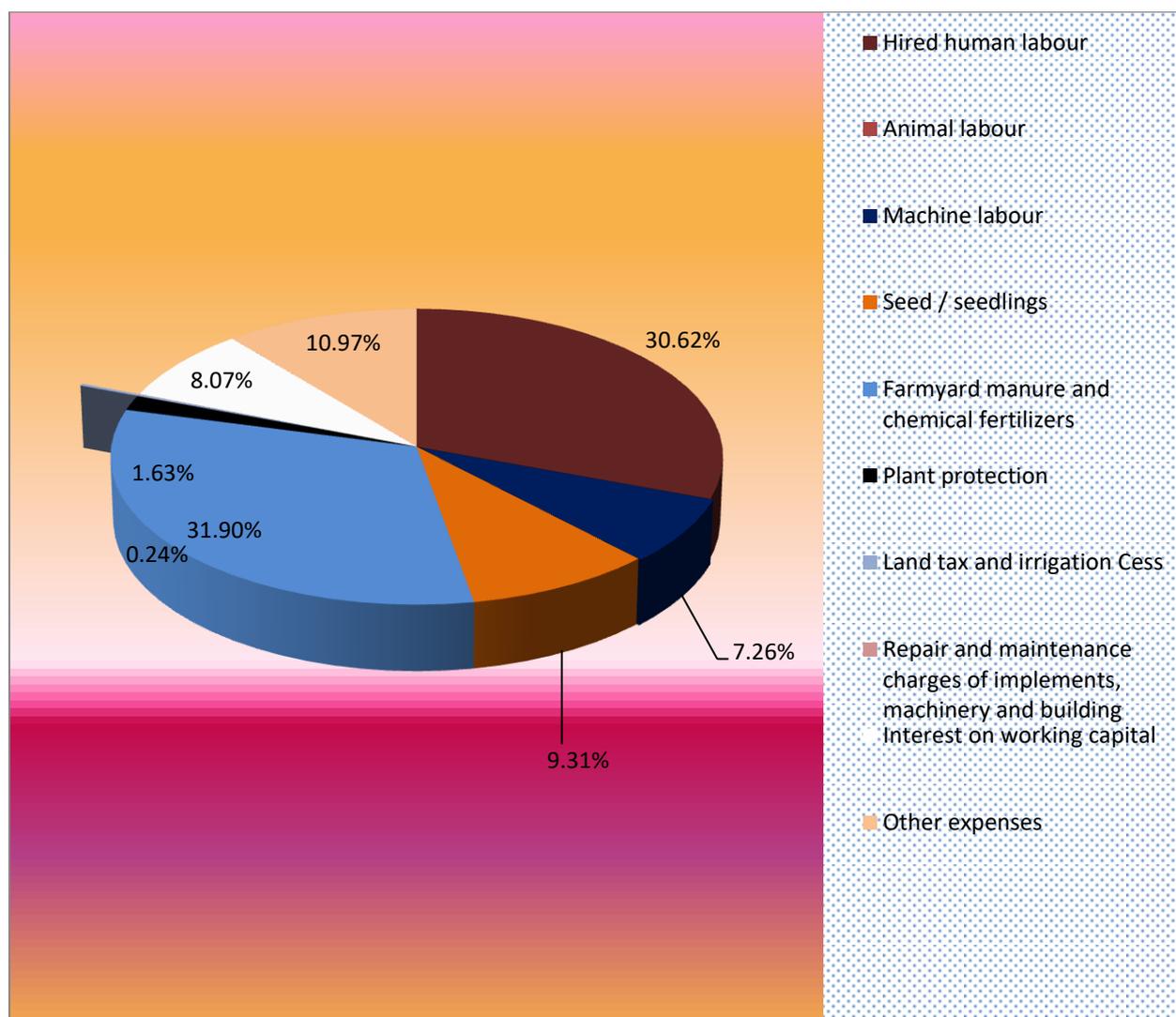
### Cost of Cultivation

Cost of cultivation of Tomato (Summer) per hectare is estimated as Rs.159132/- when cost 'A' is considered. Hired human labour gives a share of 30.62% and other expense gives 10.97%. Component wise holding size class details are presented below:

**Table 199: Cost of Cultivation per hectare (in Rs.) of Tomato (Summer)**

SI No	Components	Holding size Class			
		Small	Medium	Large	All Size
1	Hired human labour		51186		48732
2	Animal labour				
3	Machine labour	11115	11568		11546
4	Seed / seedlings	14820	14820		14820
5	Farmyard manure and chemical fertilizers	50811	50761		50764
6	Plant protection	2823	2577		2588
7	Land tax and irrigation Cess	494	370		376
8	Repair and maintenance charges of implements, machinery and building				
9	Interest on working capital	7957	13091		12845
10	Other expenses	17502	17459		17461
<b>11</b>	<b>Total Cost 'A' (1-10)</b>	105522	161832		159132
12	Interest on fixed capital	10303	10047		10044
<b>13</b>	<b>Cost 'B1' (11+12)</b>	115825	171878		169176
14	Interest on land value	99959	94349		94618
<b>15</b>	<b>Cost 'B' (13+14)</b>	215784	266228		263794
16	Imputed value of household labour	59633	9880		12265
<b>17</b>	<b>Cost 'C' (15+16)</b>	275417	276108		276059

**Percentage Distribution of “COST A” per hectare of Tomato (Summer) during 2020-21**



In Tomato (Summer) cultivation male labour participation accounted as 5.04% of the total labour hours. Details are given below:

**Table 200: Percentage of hired human labour hours to total human labour hours**

Sex	Holding size class			
	Small	Medium	Large	All Sizes
Male	5.04			5.04
Female	75.4			75.4
<b>Total</b>	<b>80.44</b>			<b>80.44</b>

**Table 201: Value of Product and by product per hectare (in Rs) of Tomato (Summer)  
during 2020-21**

Holding Size Class			
Small	Medium	Large	All Sizes
94283	97805		97636

**Table 202: Area, Sample size and Average Area per holding of some crops during the year  
2020-2021**

Sl. No.	Name of Crop	Sample Size	Area under the crop in the sample (ha)	Average Area per holding (ha)
1	Paddy Autumn	459	350.66	0.76
2	Paddy Winter	536	601.07	1.12
3	Paddy Summer	454	656.72	1.45
4	Coconut	760	288.61	0.38
5	Arecanut	750	108.21	0.14
6	Tapioca	566	108.97	0.19
7	Banana	553	131.48	0.24
8	Pepper	542	59.34	0.11
9	Ginger	444	34.66	0.08
10	Turmeric	474	29.68	0.06
11	Pineapple	206	508.06	2.47
12	Bitter gourd Autumn	220	24.11	0.11
13	Bitter gourd Winter	280	29.45	0.11
14	Bitter gourd Summer	219	16.34	0.07
15	Cowpea Autumn	229	26.68	0.12
16	Cowpea Winter	312	32.11	0.1
17	Cowpea Summer	295	26.64	0.09
18	Cardamom	25	22.11	0.88
19	Ash Guard Autumn	69	7.98	0.12
20	Ash Guard Winter	96	5.81	0.06
21	Ash Guard Summer	88	4.22	0.05
22	Cucumber Autumn	71	6.83	0.1
23	Cucumber Winter	153	11.85	0.08

24	Cucumber summer	193	12.62	0.07
25	Snake Guard Autumn	105	12.05	0.11
26	Snake Guard Winter	233	21.33	0.09
27	Snake Guard Summer	220	16.54	0.08
28	Ladies Finger Autumn	70	5.52	0.08
29	Ladies Finger Winter	143	8.2	0.06
30	Ladies Finger Summer	143	7.37	0.05
31	Cabbage Autumn	10	1.52	0.15
32	Cabbage Winter	10	1.52	0.15
33	Cabbage Summer	10	0.58	0.06
34	Carrot Autumn	10	2.13	0.21
35	Carrot Winter	10	2.04	0.2
36	Carrot Summer	10	0.5	0.05
37	Potato Autumn	10	2.71	0.27
38	Potato Winter	10	1.6	0.16
39	Potato Summer			
40	Beans Autumn	10	2.37	0.24
41	Beans Winter	10	2.37	0.24
42	Beans Summer	10	1.09	0.11
43	Beetroot Autumn			
44	Beetroot Winter			
45	<b>Beetroot Summer</b>			
46	Garlic Autumn	10	1.7	0.17
47	Garlic Winter			
48	Garlic Summer			
49	Tomato Autumn	9	2.41	0.27
50	Tomato Winter	20	3.99	0.2
51	Tomato Summer	10	2.96	0.3

The Cost of Cultivation of Crops are Calculated under three different cost concepts viz, Cost A, B and C respectively is shown in the table given below.

**Table 203: COST A, B AND C OF SOME OF CROPS (PER HECTRE) DURING THE YEAR 2020-2021**

Sl.no	Name of Crop	Cost A ₹	Cost B ₹	Cost C ₹
1	Paddy Autumn	69344	486167	493521
2	Paddy Winter	81572	237973	244897
3	Paddy Summer	78285	312164	318066
4	Coconut	92727	646755	656472
5	Arecanut	127718	598931	617329
6	Tapioca	141117	555073	590336
7	Banana	234710	675409	725366
8	Pepper	91110	668001	693350
9	Ginger	199246	586229	631956
10	Turmeric	141668	614223	668122
11	Pineapple	240287	857567	866960
12	Bitter gourd Autumn	157599	543371	612657
13	Bitter gourd Winter	146981	572568	651734
14	Bitter gourd Summer	138805	496976	593557
15	Cowpea Autumn	156719	540651	613360
16	Cowpea Winter	148688	474965	561044
17	Cowpea Summer	144802	492357	604990
18	Cardamom	247734	319091	354697
19	Ash Guard Autumn	79887	467422	497487
20	Ash Guard Winter	60767	392730	452754
21	Ash Guard Summer	69373	429997	493399

22	Cucumber Autumn	71630	603674	646665
23	Cucumber Winter	85948	486989	549643
24	Cucumber summer	81859	430981	507007
25	Snake Guard Autumn	108657	1009071	1072595
26	Snake Guard Winter	132010	623601	698218
27	Snake Guard Summer	134216	543372	629022
28	Ladies Finger Autumn	84085	536424	580579
29	Ladies Finger Winter	91403	455255	523508
30	Ladies Finger Summer	100322	643640	733400
31	Cabbage Autumn	198208	309095	309095
32	Cabbage Winter	235211	345282	345282
33	Cabbage Summer	292224	432798	432798
34	Carrot Autumn	219274	320487	320487
35	Carrot Winter	255161	358194	358194
36	Carrot Summer	268283	429164	429164
37	Potato Autumn	191416	297959	299507
38	Potato Winter	186933	307139	310266
39	Potato Summer			
40	Beans Autumn	168340	264484	264484
41	Beans Winter	158938	257997	257997
42	Beans Summer	183899	334321	341274
43	Beetroot Autumn			
44	Beetroot Winter			
45	Beetroot Summer			

46	Garlic Autumn	366344	477785	479432
47	Garlic Winter			
48	Garlic Summer			
49	Tomato Autumn	135901	249097	281570
50	Tomato Winter	128492	262634	292230
51	Tomato Summer	159132	263794	276059

Cost of Cultivation study 2020-2021 revealed the three categories of cost including the components there on and also the value of Output received per hectare by the cultivators during the period of study table no given below shown the result.

**Table 204: Cost of cultivation per hectare (in Rs) during the year 2020-2021**

Sl. No	components	Paddy			Coconut	Arecanut	Tapioca	Banana	Pepper	Ginger
		Autumn	Winter	Summer						
1	2	3	4	5	6	7	8	9	10	11
1	Hired Human Labour	29785	30729	31316	56511	73764	72426	92500	56068	69702
2	Animal labour									
3	Machine labour	10210	11165	10037	625	1618	3352	2073	258	1985
4	Seed /seedlings	3213	3255	3682	337	78	9386	28825	1214	63041
5	Farmyard manure and chemical fertilizers	7531	7777	9374	21831	33892	26682	55935	20934	29769
6	Plant Protection	1883	2412	1771			212	2301	903	1079
7	Land tax and irrigation cess	254	202	484	385	443	254	220	467	289
8	Repair and maintenance charges of implements, machinery and building	295	449	215	783	1042	1278	1368	681	737
9	Interest on working capital	5262	5534	5618	7930	10935	11206	18163	7938	16557
10	Other expenses	10911	20049	15788	4325	5946	16321	33325	2647	16087

11	Total cost 'A'(1-10)	69344	81572	78285	92727	127718	141117	234710	91110	199246
12	Interest on fixed capital	1493	1566	1197	4889	9299	2456	4549	7414	3675
13	Cost 'B'(11+12)	70837	83138	79482	97616	137017	143573	239259	98524	202921
14	Interest on land value	415330	154835	232682	549139	461914	411500	436150	569477	383308
15	Cost 'B'(13+14)	486167	237973	312164	646755	598931	555073	675409	668001	586229
16	imputed value of household labour	7354	6924	5902	9717	18398	35263	49957	25349	45727
17	Cost 'C'(15+16))	493521	244897	318066	656472	617329	590336	725366	693350	631956
18	Value of Output received (Rs.Ha)	105174	142677	145188	169967	345986	328218	497306	207707	498727

Contd.. Table : 204

Cost of cultivation per hectare (in Rs) of some crops during the year 2020-2021

Sl. No	components	Turmeric	Pine apple	Bitter gourd			Cowpea			Cardamom
				Autumn	Winter	Summer	Autumn	Winter	Summer	
12	13	14	15	16	17	18	19	20	21	22
1	Hired human labour	62607	51116	64343	58193	59744	64441	60987	55007	122306
2	Animal labour									
3	Machine labour	2441	6619	1558	1490	225	900	1738	1412	
4	Seed /seedlings	27156	90604	7510	7721	8671	6494	5951	6479	3031
5	Farmyard manure and chemical fertilizers	23397	24624	33371	27899	24359	31953	28375	30612	38647
6	Plant Protection	139	4917	3056	2897	2731	2741	2615	2844	22629
7	Land tax and irrigation cess	285	75	346	295	257	410	362	366	603
8	Repair and maintenance charges of implements, machinery and building	3779	78	1144	2386	1293	836	2329	1278	569
9	Interest on working capital	11574	17788	10984	9820	9573	10653	9967	9635	18661
10	Other expenses	10290	44466	35287	36280	31952	38291	36364	37169	41288
11	Total cost 'A'(1-10)	141668	240287	157599	146981	138805	156719	148688	144802	247734

12	Interest on fixed capital	4982	433	9337	11248	12635	3775	14272	10217	6417
13	Cost 'B'(11+12)	146650	240720	166936	158229	151440	160494	162960	155019	254151
14	Interest on land value	467573	616847	376435	414339	345536	380157	312005	337338	64940
15	Cost 'B'(13+14)	614223	857567	543371	572568	496976	540651	474965	492357	319091
16	imputed value of household labour	53899	9393	69286	79166	96581	72709	86079	112633	35606
17	Cost 'C'(15+16))	668122	866960	612657	651734	593557	613360	561044	604990	354697
18	Value of Output received (Rs.Ha)	287974	378147	395636	359384	332599	352608	375048	326175	547428

Contd.. Table : 204

**Cost of cultivation per hectare (in Rs) of some crops during the year 2020-2021**

Sl. No	Components	Ash Guard			Cucumber			Snake Guard		
		Autumn	Winter	Summer	Autumn	Winter	Summer	Autumn	Winter	Summer
23	24	25	26	27	28	29	30	31	32	33
1	Hired human labour	39607	19855	19825	25082	33556	23280	35594	49992	49888
2	Animal labour									
3	Machine labour	1825	336	704	864	1502	2134	1531	896	983
4	Seed /seedlings	3313	3706	4143	2398	3200	4538	4866	5661	5885
5	Farmyard manure and chemical fertilizers	14831	15810	19828	21369	23152	25687	25699	26762	28108
6	Plant Protection	1046	1139	1161	1992	1677	1257	2481	2354	2321
7	Land tax and irrigation cess	198	185	146	383	316	290	430	242	298
8	Repair and maintenance charges of implements, machinery and building	177	358	557	472	628	872	687	959	1210
9	Interest on working capital	6062	4085	4566	5170	6309	5690	7017	8566	8719
10	Other expenses	12828	15293	18443	13900	15608	18111	30352	36578	36804
11	Total cost 'A'(1-10)	79887	60767	69373	71630	85948	81859	108657	132010	134216
12	Interest on fixed capital	1959	16981	22095	1089	12051	17473	3530	6705	9086
13	Cost 'B'(11+12)	81846	77748	91468	72719	97999	99332	112187	138715	143302

14	Interest on land value	385576	314982	338529	530955	388990	331649	896884	484886	400070
15	Cost 'B'(13+14)	467422	392730	429997	603674	486989	430981	1009071	623601	543372
16	imputed value of household labour	30065	60024	63402	42991	62654	76026	63524	74617	85650
17	Cost 'C'(15+16))	497487	452754	493399	646665	549643	507007	1072595	698218	629022
18	Value of Output received (Rs.Ha)	186046	258758	170956	145425	187145	218802	259779	341542	320393

Contd... Table: 204

Cost of cultivation per hectare (in Rs) of some crops during the year 2020-2021

Sl. No	components	Ladies Finger			Cabbage			Carrot		
		Autumn	Winter	Summer	Autumn	Winter	Summer	Autumn	Winter	Summer
34	35	36	37	38	39	40	41	42	43	44
1	Hired human labour	38625	34594	31856	121247	158791	156422	156650	186174	175591
2	Animal labour									
3	Machine labour	1403	982	770						
4	Seed /seedlings	4264	4734	6378	26576	21167	74326	6267	7949	16856
5	Farmyard manure and chemical fertilizers	22518	22676	32892	11375	17488	21764	20800	24945	24298
6	Plant Protection	1212	1343	1394	659	468	1081	472	494	486
7	Land tax and irrigation cess	218	186	152	69	84	93	59	46	111
8	Repair and maintenance charges of implements, machinery and building	576	6005	847	7937	6027	8032	4422	4035	16165
9	Interest on working capital	6802	6433	7329	15986	19791	25359	18419	21956	21723
10	Other expenses	8467	14450	18704	14359	11395	5147	12185	9562	13053
11	Total cost 'A'(1-10)	84085	91403	100322	198208	235211	292224	219274	255161	268283
12	Interest on fixed capital	11347	28126	24990	18806	17990	33345	13239	13042	54830
13	Cost 'B1'(11+12)	95432	119529	125312	217014	253201	325569	232513	268203	323113

14	Interest on land value	440992	335726	518328	92081	92081	107229	87974	89991	106051
15	Cost 'B'(13+14)	536424	455255	643640	309095	345282	432798	320487	358194	429164
16	imputed value of household labour	44155	68253	89760						
17	Cost 'C'(15+16))	580579	523508	733400	309095	345282	432798	320487	358194	429164
18	Value of Output received (Rs.Ha)	196515	289947	328133	267023	280177	353918	309061	282094	341001

Contd.. Table : 204

**Cost of cultivation per hectare (in Rs) of some crops during the year 2020-2021**

Sl.No	Components	Potato			Beans		
		Autumn	Winter	Summer	Autumn	Winter	Summer
45	46	47	48	49	50	51	52
1	Hired human labour	105089	110306		88565	83532	98654
2	Animal labour						
3	Machine labour						
4	Seed /seedlings	27271	31578		40702	33947	37187
5	Farmyard manure and chemical fertilizers	28770	16865		16509	14630	22413
6	Plant Protection	439	183		604	730	2245
7	Land tax and irrigation cess	98	102		39		123
8	Repair and maintenance charges of implements, machinery and building	3196	6878		4412	3737	5397
9	Interest on working capital	16157	15893		14638	13284	16050
10	Other expenses	10396	5128		2871	9078	1830
11	Total cost 'A'(1-10)	191416	186933		168340	158938	183899
12	Interest on fixed capital	11275	22894		12103	11323	25275
13	Cost 'B1'(11+12)	202691	209827		180443	170261	209174
14	Interest on land value	95268	97312		84041	87736	125147
15	Cost 'B'(13+14)	297959	307139		264484	257997	334321
16	imputed value of household labour	1548	3127				6953
17	Cost 'C'(15+16))	299507	310266		264484	257997	341274

<b>18</b>	Value of Output received (Rs.Ha)	261894	264771		264260	249989	286487
-----------	----------------------------------	--------	--------	--	--------	--------	--------

Contd.. Table : 204

**Cost of cultivation per hectare (in Rs) of some crops during the year 2020-2021**

Sl. No	Components	Garlic			Tomato		
		Autumn	Winter	Summer	Autumn	Winter	Summer
<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>
<b>1</b>	Hired human labour	184333			32276	38736	48732
<b>2</b>	Animal labour						
<b>3</b>	Machine labour				10617	8730	11546
<b>4</b>	Seed /seedlings	120354			14218	12608	14820
<b>5</b>	Farmyard manure and chemical fertilizers	7175			45407	39737	50764
<b>6</b>	Plant Protection				2408	2434	2588
<b>7</b>	Land tax and irrigation cess	66			162	282	376
<b>8</b>	Repair and maintenance charges of implements, machinery and building	6940					
<b>9</b>	Interest on working capital	31186			10493	10225	12845
<b>10</b>	Other expenses	16290			20320	15740	17461
<b>11</b>	Total cost 'A'(1-10)	366343			135901	128492	159132
<b>12</b>	Interest on fixed capital	20965			11290	20313	10044
<b>13</b>	Cost 'B1'(11+12)	387309			147191	148805	169176
<b>14</b>	Interest on land value	90476			101906	113829	94618
<b>15</b>	Cost 'B'(13+14)	477785			249097	262634	263794
<b>16</b>	Imputed value of household labour	1647			32473	29596	12265
<b>17</b>	Cost 'C'(15+16))	479432			281570	292230	276059
<b>18</b>	Value of Output received (Rs.Ha)	537372			258949	254837	97636

The value of output including both main product and by product of each crop included in the survey during 2020-2021 is shown below.

**Table 205: Value of Output per hectare (In Rs.) of some crops during the year 2020-2021**

Sl.No	Name of Crop	Value of Output In Rupees
1	Paddy Autumn	105174
2	Paddy Winter	142677
3	Paddy Summer	145188
4	Coconut	169947
5	Arecanut	345986
6	Tapioca	328218
7	Banana	497306
8	Pepper	207707
9	Ginger	498727
10	Turmeric	287974
11	Pineapple	378147
12	Bitter gourd Autumn	395636
13	Bitter gourd Winter	359384
14	Bitter gourd Summer	332599
15	Cowpea Autumn	352608
16	Cowpea Winter	375048
17	Cowpea Summer	326175
18	Cardamom	547428
19	Ash Guard Autumn	186046
20	Ash Guard Winter	258758
21	Ash Guard Summer	170956
22	Cucumber Autumn	145425
23	Cucumber Winter	187145
24	Cucumber summer	218802
25	Snake Guard Autumn	259779
26	Snake Guard Winter	341542
27	Snake Guard Summer	320393

Sl.No	Name of Crop	Value of Output In Rupees
28	Ladies Finger Autumn	196515
29	Ladies Finger Winter	289947
30	Ladies Finger Summer	328133
31	Cabbage Autumn	267023
32	Cabbage Winter	280177
33	Cabbage Summer	353918
34	Carrot Autumn	309061
35	Carrot Winter	282094
36	Carrot Summer	341001
37	Potato Autumn	261894
38	Potato Winter	264771
39	Potato Summer	
40	Beans Autumn	264260
41	Beans Winter	249989
42	Beans Summer	286487
43	Beetroot Autumn	
44	Beetroot Winter	
45	Beetroot Summer	
46	Garlic Autumn	537372
47	Garlic Winter	
48	Garlic Summer	
49	Tomato Autumn	258949
50	Tomato Winter	254837
51	Tomato Summer	97636

**ANNEXURE****A1.1 District wise Area and number of holding under Autumn Paddy during 2020-21**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	45	12.65	3.61	0.28
2	Kollam	47	22.61	6.45	0.48
3	Pathanamthitta	19	10	2.85	0.53
4	Alappuzha	54	63.82	18.2	1.18
5	Kottayam	30	34.89	9.95	1.16
6	Idukki	15	7.88	2.25	0.53
7	Ernakulam	45	20.21	5.76	0.45
8	Thrissur	45	72.95	20.8	1.62
9	Palakkad	24	18.89	5.39	0.79
10	Malappuram	45	41.36	11.79	0.92
11	Kozhikkode	30	7.43	2.12	0.25
12	Wayanad				
13	Kannur	30	20.64	5.89	0.69
14	Kasaragod	30	17.34	4.94	0.58
	<b>State</b>	<b>459</b>	<b>350.66</b>	<b>100</b>	<b>0.76</b>

**A1.2 District wise Area and number of holding under Winter Paddy during 2020-21**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	45	13.39	2.23	0.3
2	Kollam	60	37.47	6.23	0.62
3	Pathanamthitta	43	184.23	30.65	4.28
4	Alappuzha	75	102.74	17.09	1.37
5	Kottayam	33	43.85	7.3	1.33
6	Idukki	15	11.86	1.97	0.79
7	Ernakulam	40	20.73	3.45	0.52
8	Thrissur	45	57.12	9.5	1.27
9	Palakkad	30	24.07	4	0.8
10	Malappuram	45	60.06	9.99	1.33
11	Kozhikkode	30	17.13	2.85	0.57
12	Wayanad	15	8.34	1.39	0.56
13	Kannur	30	10.86	1.81	0.36
14	Kasaragod	30	9.22	1.53	0.31
	<b>State</b>	<b>536</b>	<b>601.07</b>	<b>100</b>	<b>1.12</b>

**A1.3 District wise Area and number of holding under Summer Paddy during 2020-21**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	33	10.84	1.65	0.33
2	Kollam	16	15.05	2.29	0.94
3	Pathanamthitta	49	193.79	29.51	3.95
4	Alappuzha	75	161.55	24.6	2.15
5	Kottayam	45	93.37	14.22	2.07
6	Idukki	1	0.75	0.11	0.75
7	Ernakulam	39	23.86	3.63	0.61
8	Thrissur	45	62.41	9.5	1.39
9	Palakkad	22	16.4	2.5	0.75
10	Malappuram	45	46.82	7.13	1.04
11	Kozhikkode	30	11.72	1.78	0.39
12	Wayanad	15	7.69	1.17	0.51
13	Kannur	9	1.32	0.2	0.15
14	Kasaragod	30	11.13	1.69	0.37
	<b>State</b>	<b>454</b>	<b>656.72</b>	<b>100</b>	<b>1.45</b>

**A1.4 District wise Area and number of holding under Coconut during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	60	11.77	4.08	0.2
2	Kollam	80	18.31	6.34	0.23
3	Pathanamthitta	80	19.79	6.86	0.25
4	Alappuzha	100	34.13	11.83	0.34
5	Kottayam	60	20.26	7.02	0.34
6	Idulkki	20	7.17	2.48	0.36
7	Eranakulam	60	20.38	7.06	0.34
8	Thrissur	60	26.6	9.22	0.44
9	Palakkad	40	22.59	7.83	0.56
10	Malappuram	60	43.19	14.96	0.72
11	Kozhikkode	40	18.58	6.44	0.46
12	Wayanad	20	6.15	2.13	0.31
13	Kannur	40	17.94	6.22	0.45
14	Kasaragod	40	21.73	7.53	0.54
	<b>State</b>	<b>760</b>	<b>288.61</b>	<b>100</b>	<b>0.38</b>

**A1.5 District wise Area and number of holding under Arecanut during 2020-2021**

Sl. No	District	No of selected Holdings	Area under the crop in the sample (ha)	Percentage Area	Average Area Per holding (ha)
1	Thiruvananthapuram	60	5.58	5.16	0.09
2	Kollam	80	2.13	1.97	0.03
3	Pathanamthitta	80	3.53	3.26	0.04
4	Alappuzha	90	4	3.7	0.04
5	Kottayam	60	2.22	2.05	0.04
6	Idukki	20	1.85	1.71	0.09
7	Ernakulam	60	3.86	3.57	0.06
8	Thrissur	60	11.15	10.3	0.19
9	Palakkad	40	8.15	7.53	0.2
10	Malappuram	60	25.45	23.52	0.42
11	Kozhikode	40	6.57	6.07	0.16
12	Wayanad	20	7.65	7.07	0.38
13	Kannur	40	6.29	5.81	0.16
14	Kasargod	40	19.79	18.29	0.49
<b>State</b>		<b>750</b>	<b>108.21</b>	<b>100</b>	<b>0.14</b>

**A1.6 District wise Area and number of holding under Tapioca during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	45	7.95	7.3	0.18
2	Kollam	60	6.96	6.39	0.12
3	Pathanamthitta	60	11.6	10.65	0.19
4	Alappuzha	71	6.54	6	0.09
5	Kottayam	45	10.2	9.36	0.23
6	Idukki	15	5	4.59	0.33
7	Ernakulam	45	12.02	11.03	0.27
8	Thrissur	45	5.47	5.02	0.12
9	Palakkad	30	7.06	6.48	0.24
10	Malappuram	45	16.88	15.49	0.38
11	Kozhikkode	30	3.34	3.07	0.11
12	Wayanad	15	3.34	3.07	0.22
13	Kannur	30	8.43	7.74	0.28
14	Kasaragod	30	4.19	3.85	0.14
	<b>State</b>	<b>566</b>	<b>108.97</b>	<b>100</b>	<b>0.19</b>

**A1.7 District wise Area and number of holding under Banana during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	45	10.11	7.69	0.22
2	Kollam	60	7.09	5.39	0.12
3	Pathanamthitta	60	12.31	9.36	0.21
4	Alappuzha	58	6.58	5	0.11
5	Kottayam	45	8.78	6.68	0.2
6	Idukki	15	6.94	5.28	0.46
7	Ernakulam	45	16.05	12.21	0.36
8	Thrissur	45	10.09	7.67	0.22
9	Palakkad	30	13.46	10.24	0.45
10	Malappuram	45	17.24	13.11	0.38
11	Kozhikkode	30	8.68	6.6	0.29
12	Wayanad	15	4.53	3.45	0.3
13	Kannur	30	4.47	3.4	0.15
14	Kasaragod	30	5.14	3.91	0.17
	<b>State</b>	<b>553</b>	<b>131.48</b>	<b>100</b>	<b>0.24</b>

**A1.8 District wise Area and number of holding under Pepper during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	45	4.31	7.26	0.1
2	Kollam	60	3.08	5.19	0.05
3	Pathanamthitta	60	5.27	8.88	0.09
4	Alappuzha	50	1.77	2.98	0.04
5	Kottayam	45	3.34	5.63	0.07
6	Idukki	15	1.87	3.15	0.12
7	Ernakulam	42	2.54	4.28	0.06
8	Thrissur	45	2.66	4.48	0.06
9	Palakkad	30	3.81	6.42	0.13
10	Malappuram	45	10.61	17.88	0.24
11	Kozhikkode	30	3.67	6.18	0.12
12	Wayanad	15	8.24	13.89	0.55
13	Kannur	30	3.24	5.46	0.11
14	Kasaragod	30	4.93	8.31	0.16
	<b>State</b>	<b>542</b>	<b>59.34</b>	<b>100</b>	<b>0.11</b>

**A1.9 District wise Area and number of holding under Ginger during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	39	1.74	5.02	0.04
2	Kollam	60	1.91	5.51	0.03
3	Pathanamthitta	60	4.68	13.5	0.08
4	Alappuzha	21	0.55	1.59	0.03
5	Kottayam	45	2.45	7.07	0.05
6	Idukki	15	1.48	4.27	0.1
7	Ernakulam	34	2.51	7.24	0.07
8	Thrissur	45	2.84	8.19	0.06
9	Palakkad	21	6.3	18.18	0.3
10	Malappuram	19	1.48	4.27	0.08
11	Kozhikkode	22	3.55	10.24	0.16
12	Wayanad	15	2.23	6.43	0.15
13	Kannur	28	1.85	5.34	0.07
14	Kasaragod	20	1.09	3.14	0.05
	<b>State</b>	<b>444</b>	<b>34.66</b>	<b>100</b>	<b>0.08</b>

**A1.10 District wise Area and number of holding under Turmeric during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	37	1.43	4.82	0.04
2	Kollam	60	2.05	6.91	0.03
3	Pathanamthitta	59	3.35	11.29	0.06
4	Alappuzha	24	0.74	2.49	0.03
5	Kottayam	45	1.94	6.54	0.04
6	Idukki	15	1.86	6.27	0.12
7	Ernakulam	35	2.44	8.22	0.07
8	Thrissur	45	2.96	9.97	0.07
9	Palakkad	21	2.36	7.95	0.11
10	Malappuram	33	3.73	12.57	0.11
11	Kozhikkode	30	0.93	3.13	0.03
12	Wayanad	15	0.45	1.52	0.03
13	Kannur	30	3.4	11.46	0.11
14	Kasaragod	25	2.03	6.84	0.08
	<b>State</b>	<b>474</b>	<b>29.68</b>	<b>100</b>	<b>0.06</b>

**A1.11 District wise Area and number of holding under Pineapple during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	3	0.7	0.14	0.23
2	Kollam	28	2.96	0.58	0.11
3	Pathanamthitta	7	6.84	1.35	0.98
4	Alappuzha	16	0.51	0.1	0.03
5	Kottayam	45	128.52	25.3	2.86
6	Idukki	15	66.5	13.09	4.43
7	Ernakulam	32	56.94	11.21	1.78
8	Thrissur	29	128.93	25.38	4.45
9	Palakkad	3	51.01	10.04	17
10	Malappuram	3	14.09	2.77	4.7
11	Kozhikkode	7	9.55	1.88	1.36
12	Wayanad				
13	Kannur	11	37.73	7.43	3.43
14	Kasaragod	7	3.77	0.74	0.54
	<b>State</b>	<b>206</b>	<b>508.06</b>	<b>100</b>	<b>2.47</b>

**A1.12 District wise Area and number of holding under Bitter Gourd (Autumn)  
during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	2.45	10.16	0.08
2	Kollam	32	1.95	8.09	0.06
3	Pathanamthitta	29	1.66	6.89	0.06
4	Alappuzha	12	0.71	2.94	0.06
5	Kottayam	27	5.44	22.56	0.2
6	Idukki				
7	Ernakulam	9	0.6	2.49	0.07
8	Thrissur	30	2.76	11.45	0.09
9	Palakkad	20	5.83	24.18	0.29
10	Malappuram	15	1.87	7.76	0.12
11	Kozhikkode	2	0.08	0.33	0.04
12	Wayanad				
13	Kannur	14	0.77	3.19	0.06
14	Kasaragod				
	<b>State</b>	<b>220</b>	<b>24.11</b>	<b>100</b>	<b>0.11</b>

**A1.13 District wise Area and number of holding under Bitter Gourd (Winter) during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	3.39	11.51	0.11
2	Kollam	32	1.74	5.91	0.05
3	Pathanamthitta	34	1.51	5.13	0.04
4	Alappuzha	27	1.57	5.33	0.06
5	Kottayam	28	3.17	10.76	0.11
6	Idukki	10	1.56	5.3	0.16
7	Ernakulam	23	3.25	11.04	0.14
8	Thrissur	28	2.88	9.78	0.1
9	Palakkad	20	5.63	19.12	0.28
10	Malappuram	17	1.97	6.69	0.12
11	Kozhikkode	4	0.75	2.55	0.19
12	Wayanad	2	0.12	0.41	0.06
13	Kannur	11	1.05	3.57	0.1
14	Kasaragod	14	0.87	2.95	0.06
	<b>State</b>	<b>280</b>	<b>29.45</b>	<b>100</b>	<b>0.11</b>

**A1.14 District wise Area and number of holding under Bitter Gourd (Summer)  
during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	29	2.39	14.63	0.08
2	Kollam	31	1.23	7.53	0.04
3	Pathanamthitta	30	1.17	7.16	0.04
4	Alappuzha	23	0.96	5.88	0.04
5	Kottayam	9	1.15	7.04	0.13
6	Idukki				
7	Ernakulam	16	2.06	12.61	0.13
8	Thrissur	26	2.41	14.75	0.09
9	Palakkad	9	2.87	17.56	0.32
10	Malappuram	12	0.85	5.2	0.07
11	Kozhikkode	16	0.47	2.88	0.03
12	Wayanad	2	0.14	0.86	0.07
13	Kannur	4	0.2	1.22	0.05
14	Kasaragod	12	0.42	2.57	0.04
	<b>State</b>	<b>219</b>	<b>16.34</b>	<b>100</b>	<b>0.07</b>

**A1.15 District wise Area and number of holding under Cowpea (Autumn) during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	3.25	12.18	0.11
2	Kollam	36	2.11	7.91	0.06
3	Pathanamthitta	30	2.57	9.63	0.09
4	Alappuzha	17	0.86	3.22	0.05
5	Kottayam	30	7.54	28.26	0.25
6	Idukki				
7	Ernakulam	7	0.58	2.17	0.08
8	Thrissur	30	3.28	12.29	0.11
9	Palakkad	20	2.94	11.02	0.15
10	Malappuram	14	2.37	8.88	0.17
11	Kozhikkode	2	0.04	0.15	0.02
12	Wayanad				
13	Kannur	13	1.14	4.27	0.09
14	Kasaragod				
	<b>State</b>	<b>229</b>	<b>26.68</b>	<b>100</b>	<b>0.12</b>

**A1.16 District wise Area and number of holding under Cowpea (Winter) during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	3.86	12.02	0.13
2	Kollam	37	1.93	6.01	0.05
3	Pathanamthitta	38	3.31	10.31	0.09
4	Alappuzha	30	2.43	7.57	0.08
5	Kottayam	30	4.46	13.89	0.15
6	Idukki	10	1.6	4.98	0.16
7	Ernakulam	16	0.9	2.8	0.06
8	Thrissur	30	2.15	6.7	0.07
9	Palakkad	20	4.13	12.86	0.21
10	Malappuram	20	2.11	6.57	0.11
11	Kozhikkode	2	0.45	1.4	0.23
12	Wayanad	10	1.23	3.83	0.12
13	Kannur	19	2.34	7.29	0.12
14	Kasaragod	20	1.21	3.77	0.06
	<b>State</b>	<b>312</b>	<b>32.11</b>	<b>100</b>	<b>0.1</b>

**A1.17 District wise Area and number of holding under Cowpea (Summer) during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	2.53	9.5	0.08
2	Kollam	33	2.08	7.81	0.06
3	Pathanamthitta	40	3.05	11.45	0.08
4	Alappuzha	39	2.92	10.96	0.07
5	Kottayam	30	5.19	19.48	0.17
6	Idukki	3	0.26	0.98	0.09
7	Ernakulam	7	0.49	1.84	0.07
8	Thrissur	30	2.52	9.46	0.08
9	Palakkad	10	1.15	4.32	0.12
10	Malappuram	18	2.41	9.05	0.13
11	Kozhikkode	20	0.83	3.12	0.04
12	Wayanad	10	1.54	5.78	0.15
13	Kannur	9	0.77	2.89	0.09
14	Kasaragod	16	0.89	3.34	0.06
	<b>State</b>	<b>295</b>	<b>26.64</b>	<b>100</b>	<b>0.09</b>

**A1.18 District wise Area and number of holding under Cardamom during 2020-2021.**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	5	1.62	7.33	0.32
2	Palakkad	5	14.17	64.09	2.83
3	Wayanad	15	6.32	28.58	0.42
	<b>State</b>	<b>25</b>	<b>22.11</b>	<b>100</b>	<b>0.88</b>

**A1.19 District wise Area and number of holding under Ash Gourd (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam				
3	Pathanamthitta	13	0.45	5.64	0.03
4	Alappuzha	10	0.22	2.76	0.02
5	Kottayam	1	0.04	0.5	0.04
6	Idukki				
7	Ernakulam				
8	Thrissur	21	2.22	27.82	0.11
9	Palakkad	12	2.94	36.84	0.25
10	Malappuram	7	1.52	19.05	0.22
11	Kozhikkode	2	0.24	3.01	0.12
12	Wayanad				
13	Kannur	3	0.34	4.26	0.11
14	Kasaragod				
	<b>State</b>	<b>69</b>	<b>7.98</b>	<b>100</b>	<b>0.12</b>

**A1.20 District wise Area and number of holding under Ash Gourd (Winter) during  
2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam	2	0.04	0.69	0.02
3	Pathanamthitta	10	0.36	6.2	0.04
4	Alappuzha	11	0.32	5.51	0.03
5	Kottayam	2	0.32	5.51	0.16
6	Idukki				
7	Ernakulam	3	0.08	1.38	0.03
8	Thrissur	21	1.28	22.03	0.06
9	Palakkad	16	1.36	23.41	0.09
10	Malappuram	9	0.8	13.77	0.09
11	Kozhikkode	1	0.02	0.34	0.02
12	Wayanad				
13	Kannur	4	0.29	4.99	0.07
14	Kasaragod	17	0.92	15.83	0.05
	<b>State</b>	<b>96</b>	<b>5.81</b>	<b>100</b>	<b>0.06</b>

**A1.21 District wise Area and number of holding under Ash Gourd (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam	2	0.04	0.95	0.02
3	Pathanamthitta	9	0.32	7.58	0.04
4	Alappuzha	12	0.34	8.06	0.03
5	Kottayam	1	0.12	2.84	0.12
6	Idukki				
7	Ernakulam				
8	Thrissur	23	1.1	26.07	0.05
9	Palakkad	6	0.45	10.66	0.08
10	Malappuram	12	1.05	24.88	0.09
11	Kozhikkode	14	0.47	11.14	0.03
12	Wayanad				
13	Kannur	4	0.1	2.37	0.03
14	Kasaragod	5	0.21	4.98	0.04
	<b>State</b>	<b>88</b>	<b>4.22</b>	<b>100</b>	<b>0.05</b>

**A1.22 District wise Area and number of holding under Cucumber (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam				
3	Pathanamthitta	12	0.61	8.93	0.05
4	Alappuzha	10	0.28	4.1	0.03
5	Kottayam	14	2.25	32.94	0.16
6	Idukki				
7	Ernakulam				
8	Thrissur	15	0.51	7.47	0.03
9	Palakkad	5	0.51	7.47	0.1
10	Malappuram	10	1.7	24.89	0.17
11	Kozhikkode	2	0.65	9.52	0.33
12	Wayanad				
13	Kannur	3	0.32	4.69	0.11
14	Kasaragod				
	<b>State</b>	<b>71</b>	<b>6.83</b>	<b>100</b>	<b>0.1</b>

**A1.23 District wise Area and number of holding under Cucumber (Winter) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	2.13	17.97	0.07
2	Kollam	6	0.17	1.43	0.03
3	Pathanamthitta	20	1.02	8.61	0.05
4	Alappuzha	13	0.44	3.71	0.03
5	Kottayam	21	2.63	22.19	0.13
6	Idukki	3	0.11	0.93	0.04
7	Ernakulam	2	0.24	2.03	0.12
8	Thrissur	14	0.51	4.3	0.04
9	Palakkad	4	0.6	5.06	0.15
10	Malappuram	9	1.26	10.63	0.14
11	Kozhikkode	2	0.14	1.18	0.07
12	Wayanad				
13	Kannur	10	1	8.44	0.1
14	Kasaragod	19	1.6	13.5	0.08
	<b>State</b>	<b>153</b>	<b>11.85</b>	<b>100</b>	<b>0.08</b>

**A1.24 District wise Area and number of holding under Cucumber (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	20	1.24	9.83	0.06
2	Kollam	4	0.15	1.19	0.04
3	Pathanamthitta	20	1.19	9.43	0.06
4	Alappuzha	24	1.79	14.18	0.07
5	Kottayam	14	1.26	9.98	0.09
6	Idukki				
7	Ernakulam	5	0.24	1.9	0.05
8	Thrissur	26	1.15	9.11	0.04
9	Palakkad	5	0.62	4.91	0.12
10	Malappuram	22	1.57	12.44	0.07
11	Kozhikkode	20	0.67	5.31	0.03
12	Wayanad				
13	Kannur	15	0.74	5.86	0.05
14	Kasaragod	18	2	15.85	0.11
	<b>State</b>	193	12.62	100	0.07

**A1.25 District wise Area and number of holding under Snake Gourd (Autumn)**  
**during 2020- 2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam				
3	Pathanamthitta	26	1.07	8.88	0.04
4	Alappuzha	12	0.44	3.65	0.04
5	Kottayam	24	4.89	40.58	0.2
6	Idukki				
7	Ernakulam				
8	Thrissur	25	3.81	31.62	0.15
9	Palakkad	7	1.07	8.88	0.15
10	Malappuram	7	0.47	3.9	0.07
11	Kozhikkode	2	0.08	0.66	0.04
12	Wayanad				
13	Kannur	2	0.22	1.83	0.11
14	Kasaragod				
	<b>State</b>	<b>105</b>	<b>12.05</b>	<b>100</b>	<b>0.11</b>

**A1.26 District wise Area and number of holding under Snake Gourd (Winter)**  
**during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	29	2.17	10.17	0.07
2	Kollam	22	1.34	6.28	0.06
3	Pathanamthitta	32	2.14	10.03	0.07
4	Alappuzha	32	2.42	11.35	0.08
5	Kottayam	29	3.64	17.07	0.13
6	Idukki	10	2.11	9.89	0.21
7	Ernakulam	15	1.58	7.41	0.11
8	Thrissur	26	2.14	10.03	0.08
9	Palakkad	15	2.17	10.17	0.14
10	Malappuram	8	0.9	4.22	0.11
11	Kozhikkode	4	0.15	0.7	0.04
12	Wayanad				
13	Kannur	8	0.51	2.39	0.06
14	Kasaragod	3	0.06	0.28	0.02
	<b>State</b>	<b>233</b>	<b>21.33</b>	<b>100</b>	<b>0.09</b>

**A1.27 District wise Area and number of holding under Snake Gourd (Summer)**  
**during 2020-2021**

SI No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	30	1.85	11.19	0.06
2	Kollam	22	1.28	7.74	0.06
3	Pathanamthitta	37	1.78	10.76	0.05
4	Alappuzha	37	2.39	14.45	0.06
5	Kottayam	28	3.77	22.79	0.13
6	Idukki	4	1.54	9.31	0.39
7	Ernakulam	6	0.55	3.33	0.09
8	Thrissur	23	1.38	8.34	0.06
9	Palakkad	5	0.73	4.41	0.15
10	Malappuram	10	0.61	3.69	0.06
11	Kozhikkode	7	0.23	1.39	0.03
12	Wayanad				
13	Kannur	3	0.08	0.48	0.03
14	Kasaragod	8	0.36	2.18	0.05
	<b>State</b>	<b>220</b>	<b>16.54</b>	<b>100</b>	<b>0.08</b>

**A1.28 District wise Area and number of holding under Ladies Finger (Autumn)  
during 2020-2021**

SI No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram				
2	Kollam				
3	Pathanamthitta	7	0.21	3.8	0.03
4	Alappuzha	1	0.1	1.81	0.1
5	Kottayam	9	0.36	6.52	0.04
6	Idukki				
7	Ernakulam				
8	Thrissur	24	1.01	18.3	0.04
9	Palakkad	11	1.54	27.9	0.14
10	Malappuram	12	1.71	30.98	0.14
11	Kozhikkode	4	0.38	6.88	0.1
12	Wayanad	1	0.08	1.45	0.08
13	Kannur	1	0.12	2.17	0.12
14	Kasaragod				
	<b>State</b>	<b>70</b>	<b>5.52</b>	<b>100</b>	<b>0.08</b>

**A1.29 District wise Area and number of holding under Ladies Finger (Winter)  
during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	11	0.49	5.98	0.04
2	Kollam	17	0.55	6.71	0.03
3	Pathanamthitta	10	0.25	3.05	0.03
4	Alappuzha	12	0.4	4.88	0.03
5	Kottayam	10	0.6	7.32	0.06
6	Idukki				
7	Ernakulam	5	0.22	2.68	0.04
8	Thrissur	22	1.43	17.44	0.07
9	Palakkad	14	1.85	22.56	0.13
10	Malappuram	16	1.16	14.15	0.07
11	Kozhikkode	4	0.14	1.71	0.04
12	Wayanad	1	0.04	0.49	0.04
13	Kannur	4	0.2	2.44	0.05
14	Kasaragod	17	0.87	10.61	0.05
	<b>State</b>	<b>143</b>	<b>8.2</b>	<b>100</b>	<b>0.06</b>

**A1.30 District wise Area and number of holding under Ladies Finger (Summer)  
during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Thiruvananthapuram	11	0.32	4.34	0.03
2	Kollam	5	0.11	1.49	0.02
3	Pathanamthitta	5	0.14	1.9	0.03
4	Alappuzha	18	1.05	14.25	0.06
5	Kottayam	6	0.41	5.56	0.07
6	Idukki				
7	Ernakulam	5	0.15	2.04	0.03
8	Thrissur	22	1.09	14.79	0.05
9	Palakkad	6	0.33	4.48	0.06
10	Malappuram	17	1.47	19.95	0.09
11	Kozhikkode	20	0.92	12.48	0.05
12	Wayanad				
13	Kannur	11	0.51	6.92	0.05
14	Kasaragod	17	0.88	11.94	0.05
	<b>State</b>	<b>143</b>	<b>7.37</b>	<b>100</b>	<b>0.05</b>

**A1.31 District wise Area and number of holding under Cabbage (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	1.52	100	0.15
	State	10	1.52	100	0.15

**A1.32 District wise Area and number of holding under Cabbage (Winter) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	1.52	100	0.15
	State	10	1.52	100	0.15

**A1.33 District wise Area and number of holding under Cabbage (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	0.58	100	0.06
	State	10	0.58	100	0.06

**A1.34 District wise Area and number of holding under Carrot (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	2.13	100	0.21
	State	10	2.13	100	0.21

**A1.35 District wise Area and number of holding under Carrot (Winter) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	2.04	100	0.2
	State	10	2.04	100	0.2

**A1.36 District wise Area and number of holding under Carrot (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	0.5	100	0.05
	State	10	0.5	100	0.05

**A1.37 District wise Area and number of holding under Potato (Autumn) during 2020-2021.**

SI No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	2.71	100	0.27
	State	10	2.71	100	0.27

**A1.38 District wise Area and number of holding under Potato (Winter) during 2020-2021**

SI No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	1.6	100	0.16
	State	10	1.6	100	0.16

**A1.39 District wise Area and number of holding under Beans (Autumn) during 2020-2021**

SI No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	2.37	100	0.24
	State	10	2.37	100	0.24

**A1.40 District wise Area and number of holding under Beans (Winter) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	2.37	100	0.24
	State	10	2.37	100	0.24

**A1.41 District wise Area and number of holding under Beans (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	1.09	100	0.11
	State	10	1.09	100	0.11

**A1.42 District wise Area and number of holding under Garlic (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Idukki	10	1.70	100	0.17
	State	10	1.70	100	0.17

**A1.43 District wise Area and number of holding under Tomato (Autumn) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Palakkad	9	2.41	100	0.27
	State	9	2.41	100	0.27

**A1.44 District wise Area and number of holding under Tomato (Winter) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Palakkad	20	3.99	100	0.20
	State	20	3.99	100	0.20

**A1.45 District wise Area and number of holding under Tomato (Summer) during 2020-2021**

Sl No	District	Sample Size	Area under the crop in the sample (ha)	Percentage Area	Average Area per holding (ha)
1	Palakkad	10	2.96	100	0.30
	State	10	2.96	100	0.30

**A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2020-21**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	56580	55086	49399	28309	29002
2	Animal labour					
3	Machine labour	21419			10269	
4	Seed / seedlings	2743	2823	3751	3838	3021
5	Farmyard manure and chemical fertilizers	9744	10550	10831	6283	5487
6	Plant protection	375	280	837	3830	5979
7	Land tax and irrigation cess	123	319	18	606	314
8	Repair and maintenance charges of implements, machinery and building	343	621	448		153
9	Interest on working capital	9086	6874	6482	5253	4349
10	Other expenses	12555	13881	17386	12766	19429
11	<b>Total cost 'A' (1-10)</b>	112968	90434	89152	71154	67734
12	Interest on fixed capital	809	461	3194	111	194
13	<b>Cost 'B1' (11+12)</b>	113777	90895	92346	71265	67928
14	Interest on land value	300015	92553	96759	109006	75320
15	<b>Cost 'B' (13+14)</b>	413792	183448	189105	180271	143248
16	Imputed value of household labour	17599	14104	7796	4380	12804
17	<b>Cost 'C' (15+16)</b>	431391	197552	196901	184651	156052

**A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2020-21**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	32777	30852	15771	25411	25229
2	Animal labour					
3	Machine labour	11862	10064	13978	13509	16177
4	Seed / seedlings	4345	2540	3601	3923	2883
5	Farmyard manure and chemical fertilizers	4856	6967	7891	4826	6868
6	Plant protection	227	1627	1147	2239	631
7	Land tax and irrigation cess	64	187	139	199	106
8	Repair and maintenance charges of implements, machinery and building	270	173	14	45	1542
9	Interest on working capital	5407	5205	4239	4991	5179
10	Other expenses	10974	6872	9996	3817	9883
11	<b>Total cost 'A' (1-10)</b>	70782	64487	56776	58960	68498
12	Interest on fixed capital	2330	267	62	17326	1852
13	<b>Cost 'B1' (11+12)</b>	73112	64754	56838	76286	70350
14	Interest on land value	304396	247954	1412190	170929	197989
15	<b>Cost 'B' (13+14)</b>	377508	312708	1469028	247215	268339
16	Imputed value of household labour	2717	8325	4302	4488	3430
17	<b>Cost 'C' (15+16)</b>	380225	321033	1473330	251703	271769

**A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2020-21**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Hired human labour	27390		36069	38486	29785
2	Animal labour					
3	Machine labour			10950	10794	10210
4	Seed / seedlings	3921		1883	1783	3213
5	Farmyard manure and chemical fertilizers	8208		8695	12003	7531
6	Plant protection			3	67	1883
7	Land tax and irrigation cess	101		241	125	254
8	Repair and maintenance charges of implements, machinery and building	51		57	150	295
9	Interest on working capital	3952		5760	6313	5262
10	Other expenses	11360		6378	2049	10911
11	<b>Total cost 'A' (1-10)</b>	54983		70036	71770	69344
12	Interest on fixed capital	231		914	247	1493
13	<b>Cost 'B1' (11+12)</b>	55214		70950	72017	70837
14	Interest on land value	189726		152639	161135	415330
15	<b>Cost 'B' (13+14)</b>	244940		223589	233152	486167
16	Imputed value of household labour	12988		10194	11301	7354
17	<b>Cost 'C' (15+16)</b>	257928		233783	244453	493521

**A2.2 District wise Cost of Cultivation per hectare (in Rs) of Winter Paddy during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmitta	Alappuzha	Kottayam
1	Hired human labour	50994	60573	29446	25793	27382
2	Animal labour					
3	Machine labour	21915	7750	4690	17742	
4	Seed / seedlings	2961	3084	3476	4148	2854
5	Farmyard manure and chemical fertilizers	7559	11896	6839	7094	5354
6	Plant protection	287	440	4087	1809	5929
7	Land tax and irrigation cess	140	450	17	605	233
8	Repair and maintenance charges of implements, machinery and building	504	560	29		116
9	Interest on working capital	8372	8374	4854	5659	4152
10	Other expenses	15236	11012	39162	8360	22175
11	<b>Total cost 'A' (1-10)</b>	107968	104139	92600	71210	68195
12	Interest on fixed capital	1420	391	1920	55	179
13	<b>Cost 'B1' (11+12)</b>	109388	104530	94520	71265	68374
14	Interest on land value	196440	80822	86576	94078	313156
15	<b>Cost 'B' (13+14)</b>	305828	185352	181096	165343	381530
16	Imputed value of household labour	15744	16277	3058	5487	13280
17	<b>Cost 'C' (15+16)</b>	321572	201629	184154	170830	394810

**A2.2 District wise Cost of Cultivation per hectare (in Rs) of Winter Paddy during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	28144	38005	16175	28463	32908
2	Animal labour					
3	Machine labour	18686	9381	18881	18356	21190
4	Seed / seedlings	2915	2175	2865	2882	2602
5	Farmyard manure and chemical fertilizers	4624	5847	8027	8398	9249
6	Plant protection	427	1197	1142	2265	1180
7	Land tax and irrigation cess	27	132	133	194	44
8	Repair and maintenance charges of implements, machinery and building	550	119	18		3227
9	Interest on working capital	5480	5660	4709	6036	6713
10	Other expenses	14471	7412	8987	9136	13406
11	<b>Total cost 'A' (1-10)</b>	75324	69928	60937	75730	90519
12	Interest on fixed capital	1493	2194	152	7854	3781
13	<b>Cost 'B1' (11+12)</b>	76817	72122	61089	83584	94300
14	Interest on land value	382191	231442	230229	201664	223697
15	<b>Cost 'B' (13+14)</b>	459008	303564	291318	285248	317997
16	Imputed value of household labour	2830	7097	7452	3738	3870
17	<b>Cost 'C' (15+16)</b>	461838	310661	298770	288986	321867

**A2.2 District wise Cost of Cultivation per hectare (in Rs) of Winter Paddy during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Hired human labour	18811	46093	44091	37900	30729
2	Animal labour					
3	Machine labour			10826	12323	11165
4	Seed / seedlings	3407	4010	2405	2434	3255
5	Farmyard manure and chemical fertilizers	4581	13740	15555	16266	7777
6	Plant protection	339	386	22	88	2412
7	Land tax and irrigation cess	33	502	309	103	202
8	Repair and maintenance charges of implements, machinery and building	70	2029	29	1005	449
9	Interest on working capital	2714	6423	7290	6901	5534
10	Other expenses	11930	26196	8839	646	20049
11	<b>Total cost 'A' (1-10)</b>	41885	99379	89366	77666	81572
12	Interest on fixed capital	146	779	1619	2784	1566
13	<b>Cost 'B1' (11+12)</b>	42031	100158	90985	80450	83138
14	Interest on land value	190943	119436	167312	130708	154835
15	<b>Cost 'B' (13+14)</b>	232974	219594	258297	211158	237973
16	Imputed value of household labour	9519	16073	16128	24988	6924
17	<b>Cost 'C' (15+16)</b>	242493	235667	274425	236146	244897

**A2.3 District wise Cost of Cultivation per hectare (in Rs) of Summer Paddy during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	48444	74992	42557	16351	30568
2	Animal labour					
3	Machine labour	22029		697	21064	
4	Seed / seedlings	3301	2973	4045	4160	3620
5	Farmyard manure and chemical fertilizers	7573	12067	12613	6491	7077
6	Plant protection	262	555	957	1265	4958
7	Land tax and irrigation cess	159	462	7	568	196
8	Repair and maintenance charges of implements, machinery and building	210	293	48		126
9	Interest on working capital	8161	9059	6087	4933	4622
10	Other expenses	13766	15086	18330	11212	26732
11	<b>Total cost 'A' (1-10)</b>	103905	115487	85341	66044	77899
12	Interest on fixed capital	490	174	1440	37	105
13	<b>Cost 'B1' (11+12)</b>	104395	115661	86781	66081	78004
14	Interest on land value	518164	61373	426692	56944	58027
15	<b>Cost 'B' (13+14)</b>	622559	177034	513473	123025	136031
16	Imputed value of household labour	19092	8326	5565	3245	6859
17	<b>Cost 'C' (15+16)</b>	641651	185360	519038	126270	142890

**A2.3 District wise Cost of Cultivation per hectare (in Rs) of Summer Paddy during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	20749	29958	18536	24481	34455
2	Animal labour					
3	Machine labour	22243	9381	18826	13443	21477
4	Seed / seedlings	3048	2126	3301	3267	2839
5	Farmyard manure and chemical fertilizers	7191	6983	9533	7843	11704
6	Plant protection	531	2348	1917	1645	1711
7	Land tax and irrigation cess		108	2890	183	112
8	Repair and maintenance charges of implements, machinery and building		176	9	9	1775
9	Interest on working capital	5376	5080	5211	5068	7219
10	Other expenses	16599	9398	11679	3091	16018
11	<b>Total cost 'A' (1-10)</b>	75737	65558	71902	59030	97310
12	Interest on fixed capital	473	1155	136	14245	2706
13	<b>Cost 'B1' (11+12)</b>	76210	66713	72038	73275	100016
14	Interest on land value	539695	323511	372061	192761	209799
15	<b>Cost 'B' (13+14)</b>	615905	390224	444099	266036	309815
16	Imputed value of household labour	1992	7123	4536	5107	5397
17	<b>Cost 'C' (15+16)</b>	617897	397347	448635	271143	315212

**A2.3 District wise Cost of Cultivation per hectare (in Rs) of Summer Paddy during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Hired human labour	33021	60609	49736	31252	31316
2	Animal labour					
3	Machine labour			5476	14880	10037
4	Seed / seedlings	3495	3851	2361	2182	3682
5	Farmyard manure and chemical fertilizers	5819	10634	12240	11567	9374
6	Plant protection	47	1628	29	241	1771
7	Land tax and irrigation cess	83	567	376	79	484
8	Repair and maintenance charges of implements, machinery and building	15	1348	72	1345	215
9	Interest on working capital	4238	7672	6984	6012	5618
10	Other expenses	15743	20306	3274	1882	15788
11	<b>Total cost 'A' (1-10)</b>	62461	106615	80548	69440	78285
12	Interest on fixed capital	204	902	16414	4997	1197
13	<b>Cost 'B1' (11+12)</b>	62665	107517	96962	74437	79482
14	Interest on land value	180974	92787	133527	145175	232682
15	<b>Cost 'B' (13+14)</b>	243639	200304	230489	219612	312164
16	Imputed value of household labour	9654	22191	28756	16841	5902
17	<b>Cost 'C' (15+16)</b>	253293	222495	259245	236453	318066

<b>A2.4 District wise Cost of Cultivation per hectare (in Rs) of Coconut during 2020-21.</b>						
<b>Sl No</b>	<b>Components</b>	<b>Thiruvannthapuram</b>	<b>Kollam</b>	<b>Pathanmthitta</b>	<b>Alappuzha</b>	<b>Kottayam</b>
1	Hired human labour	69649	45949	49310	52132	52294
2	Animal labour					
3	Machine labour					
4	Seed / seedlings			91	501	1380
5	Farmyard manure and chemical fertilizers	17851	18693	14930	13340	31528
6	Plant protection					
7	Land tax and irrigation cess	170	368	276	652	371
8	Repair and maintenance charges of implements, machinery and building	299	1323	523	10	272
9	Interest on working capital	8750	6464	6433	6597	8520
10	Other expenses	1085	2186	6016	2062	7140
11	<b>Total cost 'A' (1-10)</b>	97804	74983	77579	75294	101505
12	Interest on fixed capital	506	554	1346	253	183
13	<b>Cost 'B1' (11+12)</b>	98310	75537	78925	75547	101688
14	Interest on land value	1181801	274214	329694	469176	821214
15	<b>Cost 'B' (13+14)</b>	1280111	349751	408619	544723	922902
16	Imputed value of household labour	32737	12452	6759	4966	12656
17	<b>Cost 'C' (15+16)</b>	1312848	362203	415378	549689	935558

<b>A2.4 District wise Cost of Cultivation per hectare (in Rs) of Coconut during 2020-21</b>						
SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	43552	41944	60952	33811	82077
2	Animal labour					
3	Machine labour				1970	1707
4	Seed / seedlings	4602		355		147
5	Farmyard manure and chemical fertilizers	10856	14887	17783	16006	36662
6	Plant protection					
7	Land tax and irrigation cess	109	134	349	306	606
8	Repair and maintenance charges of implements, machinery and building	2448	87	50	487	747
9	Interest on working capital	5901	5683	7909	5179	12059
10	Other expenses	2939	4112	3467	6369	4578
11	<b>Total cost 'A' (1-10)</b>	70407	66847	90865	64128	138583
12	Interest on fixed capital	6183	1463	2688	21110	8238
13	<b>Cost 'B1' (11+12)</b>	76590	68310	93553	85238	146821
14	Interest on land value	554139	1055285	885890	202366	723198
15	<b>Cost 'B' (13+14)</b>	630729	1123595	979443	287604	870019
16	Imputed value of household labour	4763	8363	12183	6760	5774
17	<b>Cost 'C' (15+16)</b>	635492	1131958	991626	294364	875793

<b>A2.4 District wise Cost of Cultivation per hectare (in Rs) of Coconut during 2020-21</b>						
<b>Sl No</b>	<b>Components</b>	<b>Kozhikode</b>	<b>Wayanad</b>	<b>Kannur</b>	<b>Kasargod</b>	<b>State</b>
1	Hired human labour	31983	47820	92071	55014	56511
2	Animal labour					
3	Machine labour				2865	625
4	Seed / seedlings	81				337
5	Farmyard manure and chemical fertilizers	12795	14350	35855	27140	21831
6	Plant protection					
7	Land tax and irrigation cess	309	559	346	266	385
8	Repair and maintenance charges of implements, machinery and building	9	1885	25	4878	783
9	Interest on working capital	4486	6217	12793	8502	7930
10	Other expenses	3017	553	4147	8682	4325
11	<b>Total cost 'A' (1-10)</b>	52680	71384	145237	107347	92727
12	Interest on fixed capital	210	1386	3587	13845	4889
13	<b>Cost 'B1' (11+12)</b>	52890	72770	148824	121192	97616
14	Interest on land value	180936	299536	233882	281559	549139
15	<b>Cost 'B' (13+14)</b>	233826	372306	382706	402751	646755
16	Imputed value of household labour	6134	12430	10755	14596	9717
17	<b>Cost 'C' (15+16)</b>	239960	384736	393461	417347	656472

**A2.5 District wise Cost of Cultivation per hectare (in Rs) of Arecanut during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	45627	47853	41011	9184	60890
2	Animal labour					
3	Machine labour					
4	Seed / seedlings					406
5	Farmyard manure and chemical fertilizers	14255	10902	13550	810	26107
6	Plant protection					
7	Land tax and irrigation cess	495	468	527	527	479
8	Repair and maintenance charges of implements, machinery and building	687	5839	2375		442
9	Interest on working capital	5988	5876	5456	999	8740
10	Other expenses	807	784	3057	990	2410
11	<b>Total cost 'A' (1-10)</b>	67859	71722	65976	12510	99474
12	Interest on fixed capital	981	2712	1420	2018	836
13	<b>Cost 'B1' (11+12)</b>	68840	74434	67396	14528	100310
14	Interest on land value	641453	434628	268637	453139	1032575
15	<b>Cost 'B' (13+14)</b>	710293	509062	336033	467667	1132885
16	Imputed value of household labour	20054	11595	27293	25550	15784
17	<b>Cost 'C' (15+16)</b>	730347	520657	363326	493217	1148669

<b>A2.5 District wise Cost of Cultivation per hectare (in Rs) of Arecanut during 2020-21.</b>						
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>Ernakulam</b>	<b>Thrissur</b>	<b>Palakkad</b>	<b>Malappuram</b>
1	Hired human labour	35914	263992	114002	46777	65282
2	Animal labour					
3	Machine labour					5303
4	Seed / seedlings			251		185
5	Farmyard manure and chemical fertilizers	7870	30771	26791	69881	22225
6	Plant protection					
7	Land tax and irrigation cess	123	239	307	375	509
8	Repair and maintenance charges of implements, machinery and building	6472	115	108	552	799
9	Interest on working capital	4378	29476	14104	11666	9299
10	Other expenses	1532	26204	4395	3884	8110
11	<b>Total cost 'A' (1-10)</b>	56289	350797	159958	133135	111712
12	Interest on fixed capital	13490	392	6244	22966	8957
13	<b>Cost 'B1' (11+12)</b>	69779	351189	166202	156101	120669
14	Interest on land value	576945	1218849	753515	368016	550011
15	<b>Cost 'B' (13+14)</b>	646724	1570038	919717	524117	670680
16	Imputed value of household labour	14817	42503	18798	14595	7582
17	<b>Cost 'C' (15+16)</b>	661541	1612541	938515	538712	678262

**A2.5 District wise Cost of Cultivation per hectare (in Rs) of Arecanut during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	45367	55336	94800	80463	73764
2	Animal labour					
3	Machine labour				2031	1618
4	Seed / seedlings					78
5	Farmyard manure and chemical fertilizers	20500	13353	24082	75810	33892
6	Plant protection					
7	Land tax and irrigation cess	413	909	390	324	443
8	Repair and maintenance charges of implements, machinery and building	3	1068	68	2025	1042
9	Interest on working capital	6587	6869	11888	15830	10935
10	Other expenses	2313		14783	5964	5946
11	<b>Total cost 'A' (1-10)</b>	75183	77535	146011	182447	127718
12	Interest on fixed capital	275	828	9559	20244	9299
13	<b>Cost 'B1' (11+12)</b>	75458	78363	155570	202691	137017
14	Interest on land value	207827	230980	215882	240996	461914
15	<b>Cost 'B' (13+14)</b>	283285	309343	371452	443687	598931
16	Imputed value of household labour	8952	11435	28290	29490	18398
17	<b>Cost 'C' (15+16)</b>	292237	320778	399742	473177	617329

<b>A2.6 District wise Cost of Cultivation per hectare (in Rs) of Tapioca during 2020-21</b>						
<b>Sl No</b>	<b>Components</b>	<b>Thiruvannthapuram</b>	<b>Kollam</b>	<b>Pathanmthitta</b>	<b>Alappuzha</b>	<b>Kottayam</b>
1	Hired human labour	107387	63110	87577	71003	49148
2	Animal labour					
3	Machine labour				7260	
4	Seed / seedlings	4708	2873	5176	12290	3118
5	Farmyard manure and chemical fertilizers	19575	21562	49849	31426	25186
6	Plant protection				223	
7	Land tax and irrigation cess	486	436	62	400	831
8	Repair and maintenance charges of implements, machinery and building	176	2782	638		550
9	Interest on working capital	13167	8754	14260	12220	7745
10	Other expenses	19310	8062	24853	11040	11001
11	<b>Total cost 'A' (1-10)</b>	164808	107580	182416	145864	97579
12	Interest on fixed capital	643	1231	1505	1195	446
13	<b>Cost 'B1' (11+12)</b>	165451	108810	183921	147058	98025
14	Interest on land value	778743	156831	236816	373076	996071
15	<b>Cost 'B' (13+14)</b>	944194	265642	420737	520134	1094097
16	Imputed value of household labour	42564	35089	47333	55535	49320
17	<b>Cost 'C' (15+16)</b>	986758	300730	468070	575670	1143417

**A2.6 District wise Cost of Cultivation per hectare (in Rs) of Tapioca during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	79732	96595	47217	29378	56611
2	Animal labour					
3	Machine labour	6750		933	7852	5184
4	Seed / seedlings	605	17318	11527	14197	6323
5	Farmyard manure and chemical fertilizers	13399	31339	15354	20881	18855
6	Plant protection		279	357	57	596
7	Land tax and irrigation cess	62	75	303	217	89
8	Repair and maintenance charges of implements, machinery and building	50	122	68		5757
9	Interest on working capital	10049	14553	7539	7237	8757
10	Other expenses	15990	20597	10530	6603	21068
11	<b>Total cost 'A' (1-10)</b>	126637	180877	93828	86422	123240
12	Interest on fixed capital	3124	139	3405	2283	7819
13	<b>Cost 'B1' (11+12)</b>	129761	181017	97234	88705	131059
14	Interest on land value	564250	402865	658133	164355	376607
15	<b>Cost 'B' (13+14)</b>	694011	583882	755367	253060	507666
16	Imputed value of household labour	10141	11165	63470	25357	33207
17	<b>Cost 'C' (15+16)</b>	704153	595046	818837	278417	540874

**A2.6 District wise Cost of Cultivation per hectare (in Rs) of Tapioca during 2020-21**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	35343	82633	117649	60075	72426
2	Animal labour					
3	Machine labour			11982	8337	3352
4	Seed / seedlings	9965	6617	25476	10004	9386
5	Farmyard manure and chemical fertilizers	26778	4534	47759	14529	26682
6	Plant protection	150			1290	212
7	Land tax and irrigation cess	192	284	109	122	254
8	Repair and maintenance charges of implements, machinery and building	31	1739	42		1278
9	Interest on working capital	7224	9378	20287	9423	11206
10	Other expenses	12649	22649	20518	4321	16321
11	<b>Total cost 'A' (1-10)</b>	92333	127835	243822	108101	141117
12	Interest on fixed capital	531	1629	3366	1078	2456
13	<b>Cost 'B1' (11+12)</b>	92864	129464	247189	109179	143573
14	Interest on land value	186163	80327	146776	312450	411500
15	<b>Cost 'B' (13+14)</b>	279028	209791	393965	421629	555073
16	Imputed value of household labour	45265	42125	14071	38883	35263
17	<b>Cost 'C' (15+16)</b>	324293	251916	408036	460512	590336

**A2.7 District wise Cost of Cultivation per hectare (in Rs) of Banana during 2020-21**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	166526	127344	73547	90415	60965
2	Animal labour					
3	Machine labour				10618	
4	Seed / seedlings	22230	27208	27596	29755	22836
5	Farmyard manure and chemical fertilizers	40204	42983	59091	49206	62249
6	Plant protection	62	506	288	668	4926
7	Land tax and irrigation cess	441	381	65	514	603
8	Repair and maintenance charges of implements, machinery and building	185	2693	743		780
9	Interest on working capital	22902	19804	16052	18066	15098
10	Other expenses	9260	9681	41069	47466	17762
11	<b>Total cost 'A'</b> <b>(1-10)</b>	261810	230600	218451	246708	185219
12	Interest on fixed capital	469	1384	630	890	605
13	<b>Cost 'B1'</b> <b>(11+12)</b>	262279	231984	219081	247598	185824
14	Interest on land value	802644	169385	224243	342833	906043
15	<b>Cost 'B'</b> <b>(13+14)</b>	1064923	401369	443324	590431	1091867
16	Imputed value of household labour	65843	48532	83201	74954	70393
17	<b>Cost 'C'</b> <b>(15+16)</b>	1130766	449901	526525	665385	1162260

<b>A2.7 District wise Cost of Cultivation per hectare (in Rs) of Banana during 2020-21</b>						
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>Ernakulam</b>	<b>Thrissur</b>	<b>Palakkad</b>	<b>Malappuram</b>
1	Hired human labour	123576	123033	69446	61787	79786
2	Animal labour					
3	Machine labour	691		5587	1083	4163
4	Seed / seedlings	27804	21985	47521	24530	30703
5	Farmyard manure and chemical fertilizers	28515	31310	49171	118849	51300
6	Plant protection	1334	470	3797	838	2088
7	Land tax and irrigation cess	126	35	274	202	76
8	Repair and maintenance charges of implements, machinery and building	1988	65	180		6027
9	Interest on working capital	18192	17680	17552	20709	16804
10	Other expenses	8389	32719	68034	21294	46239
11	<b>Total cost 'A' (1-10)</b>	210615	227297	261562	249292	237186
12	Interest on fixed capital	3317	2421	4928	4621	9179
13	<b>Cost 'B1' (11+12)</b>	213932	229718	266490	253913	246365
14	Interest on land value	607548	498870	617678	532575	343618
15	<b>Cost 'B' (13+14)</b>	821480	728588	884168	786488	589983
16	Imputed value of household labour	13252	11813	63968	22243	48062
17	<b>Cost 'C' (15+16)</b>	834732	740401	948136	808731	638045

**A2.7 District wise Cost of Cultivation per hectare (in Rs) of Banana during 2020-21**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	Kozhikode	Wayanad	Kannur	Kasargod	
2	Animal labour	72315	85744	103233	62431	92500
3	Machine labour					
4	Seed / seedlings			4922	6443	2073
5	Farmyard manure and chemical fertilizers	38159	29684	34007	25967	28825
6	Plant protection	65651	47174	53668	66278	55935
7	Land tax and irrigation cess		8716		20482	2301
8	Repair and maintenance charges of implements, machinery and building	75	440	181	114	220
9	Interest on working capital	189	1836	66	2340	1368
10	Other expenses	17613	17132	19583	18160	18163
11	<b>Total cost 'A' (1-10)</b>	66183	21613	39578	8245	33325
12	Interest on fixed capital	260185	212339	255238	210460	234710
13	<b>Cost 'B1' (11+12)</b>	999	2904	10298	32042	4549
14	Interest on land value	261184	215243	265536	242502	239259
15	<b>Cost 'B' (13+14)</b>	186142	85847	158044	155044	436150
16	Imputed value of household labour	447326	301090	423580	397546	675409
17	<b>Cost 'C' (15+16)</b>	40158	63117	38560	109131	49957
		487484	364207	462140	506677	725366

**A2.8 District wise Cost of Cultivation per hectare (in Rs) of Pepper during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	59330	73442	47191	21034	56396
2	Animal labour					
3	Machine labour					
4	Seed / seedlings			365		1286
5	Farmyard manure and chemical fertilizers	5590	18658	22887	20527	23780
6	Plant protection			290	162	837
7	Land tax and irrigation cess	437	391	156	527	543
8	Repair and maintenance charges of implements, machinery and building	475	3127	1239	310	203
9	Interest on working capital	6492	9210	7073	4172	8230
10	Other expenses	2018	2616	1317	5383	5691
11	<b>Total cost 'A' (1-10)</b>	74342	107444	80518	52115	96966
12	Interest on fixed capital	3535	1457	623	3442	609
13	<b>Cost 'B1' (11+12)</b>	77877	108901	81141	55557	97575
14	Interest on land value	1050146	309296	251414	468565	1064298
15	<b>Cost 'B' (13+14)</b>	1128023	418197	332555	524122	1161873
16	Imputed value of household labour	24264	32008	34453	126954	34908
17	<b>Cost 'C' (15+16)</b>	1152287	450205	367008	651076	1196781

**A2.8 District wise Cost of Cultivation per hectare (in Rs) of Pepper during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	55346	53872	122563	52389	57246
2	Animal labour					
3	Machine labour				53	283
4	Seed / seedlings	334		755		1410
5	Farmyard manure and chemical fertilizers	9670	15986	17806	17923	17994
6	Plant protection			257	4004	1369
7	Land tax and irrigation cess	122	196	372	322	575
8	Repair and maintenance charges of implements, machinery and building		77	45		1012
9	Interest on working capital	6535	6986	14138	7437	7830
10	Other expenses	3141	5428	4025	1386	3624
11	<b>Total cost 'A' (1-10)</b>	75148	82545	159961	83514	91343
12	Interest on fixed capital	11517	434	2013	1178	14324
13	<b>Cost 'B1' (11+12)</b>	86665	82979	161974	84692	105667
14	Interest on land value	597294	965786	657737	561008	1015227
15	<b>Cost 'B' (13+14)</b>	683959	1048765	819711	645700	1120894
16	Imputed value of household labour	18181	17298	25329	18857	16059
17	<b>Cost 'C' (15+16)</b>	702140	1066063	845040	664557	1136953

**A2.8 District wise Cost of Cultivation per hectare (in Rs) of Pepper during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	60639	31577	107315	33876	56068
2	Animal labour					
3	Machine labour				2454	258
4	Seed / seedlings	109	5807			1214
5	Farmyard manure and chemical fertilizers	27592	8897	51932	43859	20934
6	Plant protection		2252			903
7	Land tax and irrigation cess	456	899	373	347	467
8	Repair and maintenance charges of implements, machinery and building	8	849	94	527	681
9	Interest on working capital	8834	4853	15925	8019	7938
10	Other expenses	3527	796	3010	288	2647
11	<b>Total cost 'A' (1-10)</b>	101165	55930	178649	89370	91110
12	Interest on fixed capital	123	1066	13966	34461	7414
13	<b>Cost 'B1' (11+12)</b>	101288	56996	192615	123831	98524
14	Interest on land value	210644	241342	168414	215993	569477
15	<b>Cost 'B' (13+14)</b>	311932	298338	361029	339824	668001
16	Imputed value of household labour	16356	18643	16964	24680	25349
17	<b>Cost 'C' (15+16)</b>	328288	316981	377993	364504	693350

## A2.9 District wise Cost of Cultivation per hectare (in Rs) of Ginger during 2020-21.

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	90020	85438	74452	15415	45400
2	Animal labour					
3	Machine labour					
4	Seed / seedlings	53645	70948	60691	24502	80256
5	Farmyard manure and chemical fertilizers	38401	30317	15656	29883	28211
6	Plant protection			262		37
7	Land tax and irrigation cess	341	469	272	556	368
8	Repair and maintenance charges of implements, machinery and building	86	4890	1406	180	423
9	Interest on working capital	18207	18670	15106	6980	15390
10	Other expenses	7859	4118	7641	5228	4500
11	<b>Total cost 'A' (1-10)</b>	208559	214850	175486	82744	174585
12	Interest on fixed capital	2137	2377	770	1245	921
13	<b>Cost 'B1' (11+12)</b>	210696	217227	176256	83989	175506
14	Interest on land value	591841	313724	261128	334442	984810
15	<b>Cost 'B' (13+14)</b>	802537	530951	437384	418431	1160316
16	Imputed value of household labour	84973	56115	33152	84016	81709
17	<b>Cost 'C' (15+16)</b>	887510	587066	470536	502447	1242025

**A2.9 District wise Cost of Cultivation per hectare (in Rs) of Ginger during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	96937	33662	59988	36137	63244
2	Animal labour					
3	Machine labour	11810			4072	2436
4	Seed / seedlings	87344	33683	39822	54277	47306
5	Farmyard manure and chemical fertilizers	22930	33649	26105	30652	22493
6	Plant protection	405	104	510	2477	945
7	Land tax and irrigation cess	87	122	257	161	385
8	Repair and maintenance charges of implements, machinery and building	169	136	113		325
9	Interest on working capital	21943	10110	12643	12761	13642
10	Other expenses	19436	33479	9338	23828	9829
11	<b>Total cost 'A' (1-10)</b>	261061	144945	148776	164365	160605
12	Interest on fixed capital	11834	392	553	8687	3233
13	<b>Cost 'B1' (11+12)</b>	272895	145337	149329	173052	163838
14	Interest on land value	653319	621810	728245	227502	503345
15	<b>Cost 'B' (13+14)</b>	926214	767147	877574	400554	667183
16	Imputed value of household labour	23847	30398	68931	13295	35855
17	<b>Cost 'C' (15+16)</b>	950061	797545	946505	413849	703038

**A2.9 District wise Cost of Cultivation per hectare (in Rs) of Ginger during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	66748	191941	109732	37283	69702
2	Animal labour					
3	Machine labour			6472	9185	1985
4	Seed / seedlings	62009	147670	46958	79799	63041
5	Farmyard manure and chemical fertilizers	37214	48230	24484	40726	29769
6	Plant protection		7529			1079
7	Land tax and irrigation cess	89	992	294	198	289
8	Repair and maintenance charges of implements, machinery and building	56	2796	49	366	737
9	Interest on working capital	16597	39537	18765	16699	16557
10	Other expenses	15987	29842	31258	1281	16087
11	<b>Total cost 'A' (1-10)</b>	198700	468537	238012	185537	199246
12	Interest on fixed capital	363	3236	11192	3470	3675
13	<b>Cost 'B1' (11+12)</b>	199063	471773	249204	189007	202921
14	Interest on land value	86140	151502	125998	173604	383308
15	<b>Cost 'B' (13+14)</b>	285203	623275	375202	362611	586229
16	Imputed value of household labour	36292	69025	68149	68835	45727
17	<b>Cost 'C' (15+16)</b>	321495	692300	443351	431446	631956

**A2.10 District wise Cost of Cultivation per hectare (in Rs) of Turmeric during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	85403	62055	61733	22888	51292
2	Animal labour					
3	Machine labour					
4	Seed / seedlings	20807	25166	10210	14498	33983
5	Farmyard manure and chemical fertilizers	33898	13144	11766	23407	25096
6	Plant protection				503	
7	Land tax and irrigation cess	197	383	424	602	303
8	Repair and maintenance charges of implements, machinery and building	105	4618	1926		211
9	Interest on working capital	14011	10037	8371	6130	11037
10	Other expenses	8387	6526	4314	6242	11434
11	<b>Total cost 'A' (1-10)</b>	162808	121929	98744	74270	133356
12	Interest on fixed capital	2386	2262	5722	3565	755
13	<b>Cost 'B1' (11+12)</b>	165194	124191	104466	77835	134111
14	Interest on land value	578378	196209	343709	1155262	1373107
15	<b>Cost 'B' (13+14)</b>	743572	320400	448175	1233097	1507218
16	Imputed value of household labour	68539	53427	46751	89538	91453
17	<b>Cost 'C' (15+16)</b>	812111	373827	494926	1322635	1598671

**A2.10 District wise Cost of Cultivation per hectare (in Rs) of Turmeric during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	83889	58256	55979	47155	49326
2	Animal labour					
3	Machine labour	2691		3548	3336	1649
4	Seed / seedlings	60593	31201	27812	19584	11923
5	Farmyard manure and chemical fertilizers	11907	40616	22642	11592	23344
6	Plant protection			510	950	
7	Land tax and irrigation cess	103	150	194	290	286
8	Repair and maintenance charges of implements, machinery and building		131	157		24514
9	Interest on working capital	15908	13007	11049	8262	8624
10	Other expenses	10224	38017	15529	3683	6248
11	<b>Total cost 'A' (1-10)</b>	185315	181378	137420	94852	125914
12	Interest on fixed capital	9925	362	577	7689	17486
13	<b>Cost 'B1' (11+12)</b>	195240	181740	137997	102541	143400
14	Interest on land value	562382	564831	633177	275199	477698
15	<b>Cost 'B' (13+14)</b>	757622	746571	771174	377740	621098
16	Imputed value of household labour	12000	52468	68934	25960	49801
17	<b>Cost 'C' (15+16)</b>	769622	799039	840108	403700	670899

**A2.10 District wise Cost of Cultivation per hectare (in Rs) of Turmeric during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	27418	53442	104932	58795	62607
2	Animal labour					
3	Machine labour			10926	2805	2441
4	Seed / seedlings	48672	39116	26611	48504	27156
5	Farmyard manure and chemical fertilizers	31711	34286	21962	44814	23397
6	Plant protection					139
7	Land tax and irrigation cess	333	539	329	189	285
8	Repair and maintenance charges of implements, machinery and building	1079	3907	37	300	3779
9	Interest on working capital	10780	12684	16443	15492	11574
10	Other expenses	3991		11909	2288	10290
11	<b>Total cost 'A' (1-10)</b>	123984	143974	193149	173187	141668
12	Interest on fixed capital	1495	4546	1484	1791	4982
13	<b>Cost 'B1' (11+12)</b>	125479	148520	194633	174978	146650
14	Interest on land value	194105	176826	150542	228859	467573
15	<b>Cost 'B' (13+14)</b>	319584	325346	345175	403837	614223
16	Imputed value of household labour	72461	121704	48325	50970	53899
17	<b>Cost 'C' (15+16)</b>	392045	447050	393500	454807	668122

**A2.11 District wise Cost of Cultivation per hectare (in Rs) of Pineapple during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	114101	87732	35748	7449	38243
2	Animal labour					
3	Machine labour					
4	Seed / seedlings	131585	39264	17392		113368
5	Farmyard manure and chemical fertilizers	50613	23101	9241		41161
6	Plant protection		143	1343		13885
7	Land tax and irrigation cess	302	488	24	596	67
8	Repair and maintenance charges of implements, machinery and building	632	5002	212		22
9	Interest on working capital	29630	15024	6372	745	20666
10	Other expenses	22977	4657	20995	686	64403
11	<b>Total cost 'A' (1-10)</b>	349840	175411	91327	9476	291815
12	Interest on fixed capital	681	1805	102	363	49
13	<b>Cost 'B1' (11+12)</b>	350521	177216	91429	9839	291864
14	Interest on land value	755868	130313	160106	1746643	933136
15	<b>Cost 'B' (13+14)</b>	1106389	307529	251535	1756482	1225000
16	Imputed value of household labour	27041	19774	13964		29785
17	<b>Cost 'C' (15+16)</b>	1133430	327303	265499	1756482	1254785

**A2.11 District wise Cost of Cultivation per hectare (in Rs) of Pineapple during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	50878	40246	63997	61369	93279
2	Animal labour					
3	Machine labour	1576	14233	7427	17074	22131
4	Seed / seedlings	30760	134436	104763	52144	92057
5	Farmyard manure and chemical fertilizers	10695	34233	7890	33898	32455
6	Plant protection	526	7370	846	894	1943
7	Land tax and irrigation cess	2	20	84	235	
8	Repair and maintenance charges of implements, machinery and building	7	50	12	71	832
9	Interest on working capital	9444	23052	18492	16538	24187
10	Other expenses	83119	57606	21217	24798	17422
11	<b>Total cost 'A' (1-10)</b>	187007	311246	224728	207021	284306
12	Interest on fixed capital	275	136	388	748	2808
13	<b>Cost 'B1' (11+12)</b>	187282	311382	225116	207769	287114
14	Interest on land value	688748	547608	479443	712402	392821
15	<b>Cost 'B' (13+14)</b>	876030	858990	704559	920171	679935
16	Imputed value of household labour	855	3333	2762		1526
17	<b>Cost 'C' (15+16)</b>	876885	862323	707321	920171	681461

**A2.11 District wise Cost of Cultivation per hectare (in Rs) of Pineapple during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	45180		37060	70594	51116
2	Animal labour					
3	Machine labour			6361	17821	6619
4	Seed / seedlings	110931		64946	122106	90604
5	Farmyard manure and chemical fertilizers	28044		21260	31571	24624
6	Plant protection	5866		294		4917
7	Land tax and irrigation cess	14		63	229	75
8	Repair and maintenance charges of implements, machinery and building			2		78
9	Interest on working capital	19002		12992	24209	17788
10	Other expenses	33219		20334	611	44466
11	<b>Total cost 'A' (1-10)</b>	242256		163312	267141	240287
12	Interest on fixed capital	100		738	6410	433
13	<b>Cost 'B1' (11+12)</b>	242356		164050	273551	240720
14	Interest on land value	106676		212013	232273	616847
15	<b>Cost 'B' (13+14)</b>	349032		376063	505824	857567
16	Imputed value of household labour	6431		899	13726	9393
17	<b>Cost 'C' (15+16)</b>	355463		376962	519550	866960

**A2.12 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Autumn) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	89393	91239	92887	78828	78974
2	Animal labour					
3	Machine labour				1341	
4	Seed / seedlings	3079	4322	11609	7654	4313
5	Farmyard manure and chemical fertilizers	51318	69898	16453	65795	40957
6	Plant protection	1771	2151	1593	3190	3016
7	Land tax and irrigation cess	108	489	66	355	786
8	Repair and maintenance charges of implements, machinery and building	514	5108	3313	565	1091
9	Interest on working capital	14556	16761	12254	15681	12726
10	Other expenses	65838	24335	58709	60776	38652
11	<b>Total cost 'A' (1-10)</b>	226577	214303	196884	234185	180515
12	Interest on fixed capital	2117	2340	5810	4148	1160
13	<b>Cost 'B1' (11+12)</b>	228694	216643	202694	238333	181675
14	Interest on land value	336277	77412	344421	372899	606615
15	<b>Cost 'B' (13+14)</b>	564971	294055	547115	611232	788290
16	Imputed value of household labour	133280	87207	63331	149569	85613
17	<b>Cost 'C' (15+16)</b>	698251	381262	610446	760801	873903

**A2.12 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Autumn) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour		46582	36416	41094	56245
2	Animal labour					
3	Machine labour			8356	1814	1072
4	Seed / seedlings		3100	6536	12500	5099
5	Farmyard manure and chemical fertilizers		52790	18448	14652	21491
6	Plant protection		3564	2886	4124	5191
7	Land tax and irrigation cess		157	205	221	212
8	Repair and maintenance charges of implements, machinery and building		829	174	343	806
9	Interest on working capital		10604	7264	7418	8910
10	Other expenses		17157	32646	14341	32103
11	<b>Total cost 'A' (1-10)</b>		134783	112931	96507	131129
12	Interest on fixed capital		1342	2104	30815	4788
13	<b>Cost 'B1' (11+12)</b>		136125	115035	127322	135917
14	Interest on land value		615345	497220	226198	384005
15	<b>Cost 'B' (13+14)</b>		751470	612255	353520	519922
16	Imputed value of household labour		38940	72747	21214	48451
17	<b>Cost 'C' (15+16)</b>		790410	685002	374734	568373

**A2.12 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Autumn) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			54658		64343
2	Animal labour					
3	Machine labour			1300		1558
4	Seed / seedlings	12597		17794		7510
5	Farmyard manure and chemical fertilizers	85215		40180		33371
6	Plant protection			4		3056
7	Land tax and irrigation cess			195		346
8	Repair and maintenance charges of implements, machinery and building			84		1144
9	Interest on working capital	9781		11394		10984
10	Other expenses	27170		58779		35287
11	<b>Total cost 'A' (1-10)</b>	134763		184388		157599
12	Interest on fixed capital	3063		1312		9337
13	<b>Cost 'B1' (11+12)</b>	137826		185700		166936
14	Interest on land value	203775		225030		376435
15	<b>Cost 'B' (13+14)</b>	341601		410730		543371
16	Imputed value of household labour	100406		66326		69286
17	<b>Cost 'C' (15+16)</b>	442007		477056		612657

**A2.13 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Winter) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	76965	82310	73831	64143	84352
2	Animal labour					
3	Machine labour				1755	
4	Seed / seedlings	3306	4797	9531	10797	5309
5	Farmyard manure and chemical fertilizers	48024	49542	14749	40714	36473
6	Plant protection	1580	2131	1134	5435	4420
7	Land tax and irrigation cess	148	313	1319	436	647
8	Repair and maintenance charges of implements, machinery and building	480	4547	6773	287	1315
9	Interest on working capital	12988	13878	9924	12284	13055
10	Other expenses	74333	42643	56720	49488	26977
11	<b>Total cost 'A' (1-10)</b>	217824	200161	173981	185339	172548
12	Interest on fixed capital	1714	2298	3636	1358	910
13	<b>Cost 'B1' (11+12)</b>	219538	202459	177617	186697	173458
14	Interest on land value	571387	62633	274679	299317	871119
15	<b>Cost 'B' (13+14)</b>	790925	265092	452296	486014	1044577
16	Imputed value of household labour	111423	93499	88414	150606	111408
17	<b>Cost 'C' (15+16)</b>	902348	358591	540710	636620	1155985

**A2.13 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Winter) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	59141	48096	41818	35175	47432
2	Animal labour					
3	Machine labour			2640	1199	2536
4	Seed / seedlings	4260	4779	9849	11767	8645
5	Farmyard manure and chemical fertilizers	9205	28030	18445	12492	20691
6	Plant protection	1646	2482	4020	3002	4315
7	Land tax and irrigation cess	6	237	216	228	
8	Repair and maintenance charges of implements, machinery and building	642	400	78	338	20668
9	Interest on working capital	7425	8339	7677	6364	8362
10	Other expenses	62552	20599	32006	15101	33624
11	<b>Total cost 'A' (1-10)</b>	144877	112962	116749	85666	146273
12	Interest on fixed capital	10170	10934	10165	16560	26308
13	<b>Cost 'B1' (11+12)</b>	155047	123896	126914	102226	172581
14	Interest on land value	321825	230999	910210	266258	283326
15	<b>Cost 'B' (13+14)</b>	476872	354895	1037124	368484	455907
16	Imputed value of household labour	32487	53897	88950	26706	63400
17	<b>Cost 'C' (15+16)</b>	509359	408792	1126074	395190	519307

**A2.13 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Winter) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	26703		98111	54017	58193
2	Animal labour					
3	Machine labour			8550	14774	1490
4	Seed / seedlings	12617	3705	7619	9282	7721
5	Farmyard manure and chemical fertilizers	19894	19612	31002	59252	27899
6	Plant protection	2737	7822	17	1616	2897
7	Land tax and irrigation cess	67	494	67	67	295
8	Repair and maintenance charges of implements, machinery and building		4117	105	115	2386
9	Interest on working capital	6195	3114	14530	13894	9820
10	Other expenses	14152	34992	60555	8449	36280
11	<b>Total cost 'A' (1-10)</b>	82365	73856	220556	161466	146981
12	Interest on fixed capital	407	80125	20239	62108	11248
13	<b>Cost 'B1' (11+12)</b>	82772	153981	240795	223574	158229
14	Interest on land value	241659	82074	141075	282642	414339
15	<b>Cost 'B' (13+14)</b>	324431	236055	381870	506216	572568
16	Imputed value of household labour	49120	310808	82588	173148	79166
17	<b>Cost 'C' (15+16)</b>	373551	546863	464458	679364	651734

**A2.14 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Summer) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	96796	92605	68085	79909	92972
2	Animal labour					
3	Machine labour				706	
4	Seed / seedlings	3376	7418	13538	13232	4082
5	Farmyard manure and chemical fertilizers	31577	31773	14236	30408	28724
6	Plant protection	1574	1240	1590	6431	3546
7	Land tax and irrigation cess	145	476	125	689	392
8	Repair and maintenance charges of implements, machinery and building	460	7600	3748		1109
9	Interest on working capital	13332	13304	9745	13069	12932
10	Other expenses	65771	36074	25854	51181	22852
11	<b>Total cost 'A' (1-10)</b>	213030	190491	136921	195625	166610
12	Interest on fixed capital	2860	3880	3350	3117	459
13	<b>Cost 'B1' (11+12)</b>	215890	194371	140271	198742	167069
14	Interest on land value	360005	69881	238349	297133	557648
15	<b>Cost 'B' (13+14)</b>	575895	264252	378620	495875	724717
16	Imputed value of household labour	140849	72622	83807	194895	114187
17	<b>Cost 'C' (15+16)</b>	716744	336874	462427	690770	838904

**A2.14 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Summer) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour		45023	43613	37024	39167
2	Animal labour					
3	Machine labour					2352
4	Seed / seedlings		4901	10179	11599	12137
5	Farmyard manure and chemical fertilizers		33928	14055	14743	20436
6	Plant protection		3217	2400	3165	5474
7	Land tax and irrigation cess		246	276	210	18
8	Repair and maintenance charges of implements, machinery and building		556	75	278	2288
9	Interest on working capital		8707	7025	6653	7957
10	Other expenses		26153	30352	15888	29040
11	<b>Total cost 'A' (1-10)</b>		122731	107974	89561	118868
12	Interest on fixed capital		14460	11096	8026	17739
13	<b>Cost 'B1' (11+12)</b>		137191	119070	97587	136607
14	Interest on land value		210023	621035	388796	277320
15	<b>Cost 'B' (13+14)</b>		347214	740105	486383	413927
16	Imputed value of household labour		67903	103582	22417	92278
17	<b>Cost 'C' (15+16)</b>		415117	843687	508800	506205

**A2.14 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd (Summer) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	3407	16937	32703	43985	59744
2	Animal labour					
3	Machine labour				2375	225
4	Seed / seedlings	13287	7057	12375	7543	8671
5	Farmyard manure and chemical fertilizers	27681	11009	32298	46773	24359
6	Plant protection	1341	3105			2731
7	Land tax and irrigation cess	109	741	222	19	257
8	Repair and maintenance charges of implements, machinery and building	106	3599	124	713	1293
9	Interest on working capital	4572	3811	7738	10068	9573
10	Other expenses	13564	7410	45078	1538	31952
11	<b>Total cost 'A' (1-10)</b>	64067	53670	130536	113013	138805
12	Interest on fixed capital	2606	5429	42160	196052	12635
13	<b>Cost 'B1' (11+12)</b>	66673	59098	172696	309066	151440
14	Interest on land value	244871	74100	133380	134283	345536
15	<b>Cost 'B' (13+14)</b>	311544	133198	306076	443348	496976
16	Imputed value of household labour	82213	134086	190684	253009	96581
17	<b>Cost 'C' (15+16)</b>	393757	267284	496760	696357	593557

**A2.15 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Autumn) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	123965	73615	48813	97518	66956
2	Animal labour					
3	Machine labour				1107	
4	Seed / seedlings	6048	4404	11980	10351	4085
5	Farmyard manure and chemical fertilizers	51144	67110	10509	37308	40553
6	Plant protection	2039	2599	2424	7375	3620
7	Land tax and irrigation cess	170	479	9	520	965
8	Repair and maintenance charges of implements, machinery and building	448	3525	1219		1067
9	Interest on working capital	18320	14773	7373	15366	11521
10	Other expenses	63148	25805	53791	72007	35063
11	<b>Total cost 'A' (1-10)</b>	265282	192310	136118	241552	163830
12	Interest on fixed capital	1568	2006	1476	2767	697
13	<b>Cost 'B1' (11+12)</b>	266850	194316	137594	244319	164527
14	Interest on land value	475493	80003	413216	404776	502338
15	<b>Cost 'B' (13+14)</b>	742343	274319	550810	649095	666865
16	Imputed value of household labour	112370	77708	67957	127753	83318
17	<b>Cost 'C' (15+16)</b>	854713	352027	618767	776848	750183

<b>A2.15 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Autumn) during 2020-21.</b>						
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>Ernakulam</b>	<b>Thrissur</b>	<b>Palakkad</b>	<b>Malappuram</b>
1	Hired human labour		41270	42024	34663	46809
2	Animal labour					
3	Machine labour			3477	2370	285
4	Seed / seedlings		9326	4589	8646	1945
5	Farmyard manure and chemical fertilizers		50078	15446	10865	10352
6	Plant protection		4202	1704	2919	1917
7	Land tax and irrigation cess		69	175	86	233
8	Repair and maintenance charges of implements, machinery and building		1115	158		424
9	Interest on working capital		10488	6724	5946	6131
10	Other expenses		18765	43003	14881	14990
11	<b>Total cost 'A' (1-10)</b>		135313	117300	80376	83086
12	Interest on fixed capital		1267	3236	21484	1883
13	<b>Cost 'B1' (11+12)</b>		136580	120536	101860	84969
14	Interest on land value		520724	455751	173222	300379
15	<b>Cost 'B' (13+14)</b>		657304	576287	275082	385348
16	Imputed value of household labour		44477	53521	31543	64268
17	<b>Cost 'C' (15+16)</b>		701781	629808	306625	449616

**A2.15 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Autumn) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Hired human labour			63820		64441
2	Animal labour					
3	Machine labour			3516		900
4	Seed / seedlings	8892		20207		6494
5	Farmyard manure and chemical fertilizers	24700		37451		31953
6	Plant protection					2741
7	Land tax and irrigation cess			198		410
8	Repair and maintenance charges of implements, machinery and building			44		836
9	Interest on working capital	3359		12499		10653
10	Other expenses	29640		57399		38291
11	<b>Total cost 'A' (1-10)</b>	66591		195134		156719
12	Interest on fixed capital	3625		733		3775
13	<b>Cost 'B1' (11+12)</b>	70216		195867		160494
14	Interest on land value	222300		180020		380157
15	<b>Cost 'B' (13+14)</b>	292516		375887		540651
16	Imputed value of household labour	60021		43533		72709
17	<b>Cost 'C' (15+16)</b>	352537		419420		613360

**A2.16 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Winter) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	113726	66978	64714	68707	74068
2	Animal labour					
3	Machine labour				1132	
4	Seed / seedlings	3093	5000	6106	13063	5052
5	Farmyard manure and chemical fertilizers	43346	43112	14712	39656	46854
6	Plant protection	1696	2132	1356	6091	3744
7	Land tax and irrigation cess	147	318	130	488	1311
8	Repair and maintenance charges of implements, machinery and building	292	3915	1249	823	1371
9	Interest on working capital	16186	11722	8689	12865	12972
10	Other expenses	70057	27017	40175	46720	34668
11	<b>Total cost 'A' (1-10)</b>	248543	160194	137131	189545	180040
12	Interest on fixed capital	1407	2245	16921	2093	863
13	<b>Cost 'B1' (11+12)</b>	249950	162439	154052	191638	180903
14	Interest on land value	325840	62809	200635	275020	581705
15	<b>Cost 'B' (13+14)</b>	575790	225248	354687	466658	762608
16	Imputed value of household labour	98694	80924	86993	106591	88217
17	<b>Cost 'C' (15+16)</b>	674484	306172	441680	573249	850825

**A2.16 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Winter) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	67413	23637	31051	28175	24865
2	Animal labour					
3	Machine labour				3868	711
4	Seed / seedlings	4377	3738	4588	4354	4840
5	Farmyard manure and chemical fertilizers	9828	43967	16574	12586	14378
6	Plant protection	860	5095	3112	2549	3347
7	Land tax and irrigation cess	56	343	243	232	52
8	Repair and maintenance charges of implements, machinery and building		637	216		19447
9	Interest on working capital	8248	7644	5533	5153	4814
10	Other expenses	41584	28134	27398	13808	26848
11	<b>Total cost 'A' (1-10)</b>	132366	113195	88715	70725	99302
12	Interest on fixed capital	11634	21503	15489	21562	23369
13	<b>Cost 'B1' (11+12)</b>	144000	134698	104204	92287	122671
14	Interest on land value	370376	499605	694544	187225	327247
15	<b>Cost 'B' (13+14)</b>	514376	634303	798748	279512	449918
16	Imputed value of household labour	42554	69370	120001	24180	99158
17	<b>Cost 'C' (15+16)</b>	556930	703673	918749	303692	549076

**A2.16 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Winter) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	12575	30450	95948	38231	60987
2	Animal labour					
3	Machine labour			12371	5452	1738
4	Seed / seedlings	5052	10406	9232	8155	5951
5	Farmyard manure and chemical fertilizers	17964	19220	18284	48625	28375
6	Plant protection	2470	4847			2615
7	Land tax and irrigation cess		494	96	133	362
8	Repair and maintenance charges of implements, machinery and building	225	8422	96	909	2329
9	Interest on working capital	3806	6492	13583	10046	9967
10	Other expenses	44460	22460	55458	1877	36364
11	<b>Total cost 'A' (1-10)</b>	86552	102791	205068	113428	148688
12	Interest on fixed capital	2667	18033	19877	85987	14272
13	<b>Cost 'B1' (11+12)</b>	89219	120824	224945	199415	162960
14	Interest on land value	105536	69256	136238	214535	312005
15	<b>Cost 'B' (13+14)</b>	194755	190080	361183	413950	474965
16	Imputed value of household labour	56181	245684	55084	108734	86079
17	<b>Cost 'C' (15+16)</b>	250936	435764	416267	522684	561044

**A2.17 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Summer) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	105829	78530	48585	32990	58352
2	Animal labour					
3	Machine labour				4779	385
4	Seed / seedlings	3667	8685	5623	6893	4592
5	Farmyard manure and chemical fertilizers	68678	19924	12596	31933	41459
6	Plant protection	1743	1098	1098	3706	3611
7	Land tax and irrigation cess	245	489	52	325	913
8	Repair and maintenance charges of implements, machinery and building	284	6136	1687		772
9	Interest on working capital	17992	10824	6790	8030	10840
10	Other expenses	69910	32156	40916	51541	36067
11	<b>Total cost 'A' (1-10)</b>	268348	157842	117347	140197	156991
12	Interest on fixed capital	2279	3200	12474	1799	615
13	<b>Cost 'B1' (11+12)</b>	270627	161042	129821	141996	157606
14	Interest on land value	397607	47216	143455	151579	780257
15	<b>Cost 'B' (13+14)</b>	668234	208258	273276	293575	937863
16	Imputed value of household labour	113567	71936	166795	132023	92885
17	<b>Cost 'C' (15+16)</b>	781801	280194	440071	425598	1030748

**A2.17 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Summer) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	74784	48659	47005	18851	32547
2	Animal labour					
3	Machine labour			2359		2654
4	Seed / seedlings	4180	3131	4903	2025	10361
5	Farmyard manure and chemical fertilizers	4883	38100	16935	12134	20206
6	Plant protection	4275	4117	4274	2398	2511
7	Land tax and irrigation cess	19	175	230	264	23
8	Repair and maintenance charges of implements, machinery and building			203		1405
9	Interest on working capital	8812	9401	7548	3541	6828
10	Other expenses	57000	12391	28249	17225	25066
11	<b>Total cost 'A' (1-10)</b>	153953	115974	111706	56438	101601
12	Interest on fixed capital	3731	1571	12005	16613	18987
13	<b>Cost 'B1' (11+12)</b>	157684	117545	123711	73051	120588
14	Interest on land value	239959	336126	477198	190801	283833
15	<b>Cost 'B' (13+14)</b>	397643	453671	600909	263852	404421
16	Imputed value of household labour	23066	53928	96453	29031	74630
17	<b>Cost 'C' (15+16)</b>	420709	507599	697362	292883	479051

**A2.17 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Summer) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour		72540	101088	39161	55007
2	Animal labour				1235	
3	Machine labour			5200	6736	1412
4	Seed / seedlings	10302	12561	8593	8211	6479
5	Farmyard manure and chemical fertilizers	34339	29825	18190	44278	30612
6	Plant protection	1627	7852			2844
7	Land tax and irrigation cess	112	611	156	82	366
8	Repair and maintenance charges of implements, machinery and building	108	2977	32	3166	1278
9	Interest on working capital	4627	12278	13307	9962	9635
10	Other expenses	18953	33127	55510	1740	37169
11	<b>Total cost 'A' (1-10)</b>	70067	171772	202076	114571	144802
12	Interest on fixed capital	1789	9549	15060	99573	10217
13	<b>Cost 'B1' (11+12)</b>	71856	181320	217136	214144	155019
14	Interest on land value	209649	99775	169650	174236	337338
15	<b>Cost 'B' (13+14)</b>	281505	281095	386786	388380	492357
16	Imputed value of household labour	94812	236860	128603	172277	112633
17	<b>Cost 'C' (15+16)</b>	376317	517955	515388	560657	604990

**A 2.18 District wise Cost of Cultivation per hectare (in Rs.) of Cardamom during 2020-21**

Sl No	Components	Idukki	Palakkad	Wayanad	State
1	Hired human labour	131871	113899	138716	122306
2	Animal labour				
3	Machine labour				
4	Seed / seedlings			10608	3031
5	Farmyard manure and chemical fertilizers	10129	40774	41186	38647
6	Plant protection	45102	19365	24189	22629
7	Land tax and irrigation cess	124	550	844	603
8	Repair and maintenance charges of implements, machinery and building			1990	569
9	Interest on working capital	18710	17404	21470	18661
10	Other expenses	38285	49223	24256	41288
11	<b>Total cost 'A' (1-10)</b>	244221	241215	263259	247734
12	Interest on fixed capital	5435	506	19924	6417
13	<b>Cost 'B1' (11+12)</b>	249656	241721	283183	254151
14	Interest on land value	172468	24561	127961	64940
15	<b>Cost 'B' (13+14)</b>	422124	266282	411144	319091
16	Imputed value of household labour	15617	13042	91358	35606
17	<b>Cost 'C' (15+16)</b>	437741	279324	502502	354697

**A2.19 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Autumn) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour			22514		
2	Animal labour					
3	Machine labour					
4	Seed / seedlings			5808		2573
5	Farmyard manure and chemical fertilizers			13920		14252
6	Plant protection			367		2519
7	Land tax and irrigation cess			245	593	395
8	Repair and maintenance charges of implements, machinery and building			1891		1235
9	Interest on working capital			4261		1934
10	Other expenses			13207		22230
11	<b>Total cost 'A' (1-10)</b>			62213	593	45138
12	Interest on fixed capital			21033		2300
13	<b>Cost 'B1' (11+12)</b>			83246	593	47438
14	Interest on land value			256893	138320	979997
15	<b>Cost 'B' (13+14)</b>			340139	138913	1027435
16	Imputed value of household labour			103807	13697	49993
17	<b>Cost 'C' (15+16)</b>			443946	152610	1077428

**A2.19 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Autumn)during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			36364	37814	46903
2	Animal labour					
3	Machine labour					6956
4	Seed / seedlings			3051	2969	4863
5	Farmyard manure and chemical fertilizers			16468	15038	8611
6	Plant protection			298	2096	823
7	Land tax and irrigation cess			106	191	250
8	Repair and maintenance charges of implements, machinery and building			20		306
9	Interest on working capital			5618	5792	6816
10	Other expenses			19369	9550	8464
11	<b>Total cost 'A' (1-10)</b>			81294	73450	83992
12	Interest on fixed capital			360	1372	354
13	<b>Cost 'B1' (11+12)</b>			81654	74822	84346
14	Interest on land value			490768	435703	263097
15	<b>Cost 'B' (13+14)</b>			572422	510525	347443
16	Imputed value of household labour			37264	20858	14426
17	<b>Cost 'C' (15+16)</b>			609686	531383	361869

**A2.19 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Autumn) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	95507		56810		39607
2	Animal labour					
3	Machine labour			11624		1825
4	Seed / seedlings	618		1976		3313
5	Farmyard manure and chemical fertilizers	46930		18153		14831
6	Plant protection					1046
7	Land tax and irrigation cess	144		320		198
8	Repair and maintenance charges of implements, machinery and building					177
9	Interest on working capital	14305		8856		6062
10	Other expenses	16467		22085		12828
11	<b>Total cost 'A' (1-10)</b>	173971		119824		79887
12	Interest on fixed capital	1146		1265		1959
13	<b>Cost 'B1' (11+12)</b>	175117		121089		81846
14	Interest on land value	405492		63058		385576
15	<b>Cost 'B' (13+14)</b>	580609		184147		467422
16	Imputed value of household labour	14450		54355		30065
17	<b>Cost 'C' (15+16)</b>	595059		238502		497487

**A2.20 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Winter) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour		109298	21890		32697
2	Animal labour					
3	Machine labour					
4	Seed / seedlings		593	7986	188	4817
5	Farmyard manure and chemical fertilizers		40162	12157	1063	14172
6	Plant protection			695		6113
7	Land tax and irrigation cess		543	172	593	
8	Repair and maintenance charges of implements, machinery and building		6052	274		
9	Interest on working capital		15005	4273	125	5780
10	Other expenses		61750	30354	3095	19158
11	<b>Total cost 'A' (1-10)</b>		233403	77800	5064	82736
12	Interest on fixed capital		5400	25514	1656	
13	<b>Cost 'B1' (11+12)</b>		238803	103314	6720	82736
14	Interest on land value		185250	431333	655019	816419
15	<b>Cost 'B' (13+14)</b>		424053	534648	661739	899155
16	Imputed value of household labour		160921	104506	16727	28251
17	<b>Cost 'C' (15+16)</b>		584973	639153	678466	927406

**A2.20 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Winter) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			12913	5827	23041
2	Animal labour					
3	Machine labour					
4	Seed / seedlings		1112	4545	2527	4294
5	Farmyard manure and chemical fertilizers		28590	12980	8002	12200
6	Plant protection			1162	1096	1741
7	Land tax and irrigation cess		371	198	201	150
8	Repair and maintenance charges of implements, machinery and building			51		2052
9	Interest on working capital		2970	3160	1745	4128
10	Other expenses		12535	30099	4119	12487
11	<b>Total cost 'A' (1-10)</b>		45578	65108	23518	60093
12	Interest on fixed capital		94938	12045	6853	8857
13	<b>Cost 'B1' (11+12)</b>		140515	77152	30371	68950
14	Interest on land value		624910	333741	157679	181796
15	<b>Cost 'B' (13+14)</b>		765425	410894	188050	250746
16	Imputed value of household labour		68049	60109	44393	38097
17	<b>Cost 'C' (15+16)</b>		833474	471002	232442	288843

**A2.20 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Winter) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			90868	25155	19855
2	Animal labour					
3	Machine labour			1565	1625	336
4	Seed / seedlings	7410		1816	3786	3706
5	Farmyard manure and chemical fertilizers	29640		20591	37552	15810
6	Plant protection					1139
7	Land tax and irrigation cess			70	113	185
8	Repair and maintenance charges of implements, machinery and building			87		358
9	Interest on working capital	3705		11484	6812	4085
10	Other expenses			34093	3337	15293
11	<b>Total cost 'A' (1-10)</b>	40755		160575	78379	60767
12	Interest on fixed capital	5250		21259	46785	16981
13	<b>Cost 'B1' (11+12)</b>	46005		181833	125164	77748
14	Interest on land value	197600		91842	348021	314982
15	<b>Cost 'B' (13+14)</b>	243605		273676	473185	392730
16	Imputed value of household labour	62244		73822	101173	60024
17	<b>Cost 'C' (15+16)</b>	305849		347497	574357	452754

**A2.21 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Summer) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour		8982	55521	10586	9057
2	Animal labour					
3	Machine labour					
4	Seed / seedlings		719	6299	691	6587
5	Farmyard manure and chemical fertilizers		58427	13736	4969	19427
6	Plant protection			579		741
7	Land tax and irrigation cess		449	88	593	
8	Repair and maintenance charges of implements, machinery and building		2021	2470		
9	Interest on working capital		6813	7613	1625	3581
10	Other expenses		22455	34966	8910	35263
11	<b>Total cost 'A' (1-10)</b>		99864	121271	27373	74655
12	Interest on fixed capital		2200	9328	3926	
13	<b>Cost 'B1' (11+12)</b>		102064	130599	31300	74655
14	Interest on land value		197600	499285	182604	159935
15	<b>Cost 'B' (13+14)</b>		299664	629884	213903	234590
16	Imputed value of household labour		206582	143291	24259	36227
17	<b>Cost 'C' (15+16)</b>		506246	773175	238162	270817

**A2.21 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Summer) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			24977	15603	16587
2	Animal labour					
3	Machine labour					2489
4	Seed / seedlings			3564	2865	4277
5	Farmyard manure and chemical fertilizers			16282	13839	14383
6	Plant protection			1434	2338	1882
7	Land tax and irrigation cess			227	71	
8	Repair and maintenance charges of implements, machinery and building			36		1169
9	Interest on working capital			4626	3464	3962
10	Other expenses			19497	11291	18209
11	<b>Total cost 'A' (1-10)</b>			70643	49470	62958
12	Interest on fixed capital			18035	16556	19140
13	<b>Cost 'B1' (11+12)</b>			88679	66026	82098
14	Interest on land value			508715	547897	184077
15	<b>Cost 'B' (13+14)</b>			597394	613923	266176
16	Imputed value of household labour			54590	39460	46488
17	<b>Cost 'C' (15+16)</b>			651983	653384	312664

**A2.21 District wise Cost of Cultivation per hectare (in Rs) of Ash guard (Summer) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			19562	30432	19825
2	Animal labour					
3	Machine labour	752				704
4	Seed / seedlings	7464		5138	3029	4143
5	Farmyard manure and chemical fertilizers	48433		18693	40825	19828
6	Plant protection					1161
7	Land tax and irrigation cess	97		148	112	146
8	Repair and maintenance charges of implements, machinery and building	86			699	557
9	Interest on working capital	5665		4339	7429	4566
10	Other expenses	16538		37544	4241	18443
11	<b>Total cost 'A' (1-10)</b>	79035		85424	86767	69373
12	Interest on fixed capital	1532		72400	159471	22095
13	<b>Cost 'B1' (11+12)</b>	80567		157824	246238	91468
14	Interest on land value	205117		294424	225469	338529
15	<b>Cost 'B' (13+14)</b>	285684		452248	471707	429997
16	Imputed value of household labour	66647		152300	120331	63402
17	<b>Cost 'C' (15+16)</b>	352331		604549	592038	493399

**A2.22 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Autumn) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour			28574		14415
2	Animal labour					
3	Machine labour					
4	Seed / seedlings			2921	4651	1053
5	Farmyard manure and chemical fertilizers			18896	4940	20402
6	Plant protection			902		2870
7	Land tax and irrigation cess			247	593	894
8	Repair and maintenance charges of implements, machinery and building			1070		730
9	Interest on working capital			5129	959	3874
10	Other expenses			4150		14904
11	<b>Total cost 'A' (1-10)</b>			61889	11143	59141
12	Interest on fixed capital			2057	661	1022
13	<b>Cost 'B1' (11+12)</b>			63946	11803	60163
14	Interest on land value			264888	132674	990545
15	<b>Cost 'B' (13+14)</b>			328835	144478	1050708
16	Imputed value of household labour			40564	93684	44937
17	<b>Cost 'C' (15+16)</b>			369399	238161	1095645

**A2.22 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Autumn) during 2020-21.**

Sl No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			10259	7706	35521
2	Animal labour					
3	Machine labour					1117
4	Seed / seedlings			5149	1487	618
5	Farmyard manure and chemical fertilizers			10699	16885	11396
6	Plant protection			825	2466	2902
7	Land tax and irrigation cess			268	138	12
8	Repair and maintenance charges of implements, machinery and building					550
9	Interest on working capital			2693	2854	5155
10	Other expenses			4775	12340	18716
11	<b>Total cost 'A' (1-10)</b>			34668	43877	75987
12	Interest on fixed capital			1413	3098	654
13	<b>Cost 'B1' (11+12)</b>			36081	46975	76641
14	Interest on land value			193818	371846	370136
15	<b>Cost 'B' (13+14)</b>			229899	418821	446777
16	Imputed value of household labour			59426	53409	33707
17	<b>Cost 'C' (15+16)</b>			289325	472230	480484

**A2.22 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Autumn) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	55729		49060		25082
2	Animal labour					
3	Machine labour			12350		864
4	Seed / seedlings	8877		2223		2398
5	Farmyard manure and chemical fertilizers	74409		17305		21369
6	Plant protection					1992
7	Land tax and irrigation cess	93				383
8	Repair and maintenance charges of implements, machinery and building					472
9	Interest on working capital	13901		8094		5170
10	Other expenses	9262		38285		13900
11	<b>Total cost 'A' (1-10)</b>	162271		127318		71630
12	Interest on fixed capital			891		1089
13	<b>Cost 'B1' (11+12)</b>	162271		128208		72719
14	Interest on land value	367413		145113		530955
15	<b>Cost 'B' (13+14)</b>	529684		273321		603674
16	Imputed value of household labour	14172		53692		42991
17	<b>Cost 'C' (15+16)</b>	543855		327012		646665

**A2.23 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Winter) during 2020-21.**

SI No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour	54914	49701	33426		18590
2	Animal labour					
3	Machine labour				4079	
4	Seed / seedlings	2809	1744	5672	4260	1596
5	Farmyard manure and chemical fertilizers	33629	31399	14071	14752	22151
6	Plant protection	1623	352	1354	544	3906
7	Land tax and irrigation cess	221	428	122	430	850
8	Repair and maintenance charges of implements, machinery and building	363	3675	488	680	593
9	Interest on working capital	9298	8320	5452	2363	4624
10	Other expenses	36921	21989	11956	7319	7051
11	<b>Total cost 'A' (1-10)</b>	139779	117608	72541	34427	59359
12	Interest on fixed capital	2362	2476	22485	830	850
13	<b>Cost 'B1' (11+12)</b>	142140	120085	95027	35257	60210
14	Interest on land value	349277	100457	571050	157038	616563
15	<b>Cost 'B' (13+14)</b>	491417	220541	666077	192294	676773
16	Imputed value of household labour	92189	105909	56108	98460	45669
17	<b>Cost 'C' (15+16)</b>	583606	326450	722185	290755	722442

**A2.23 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Winter) during 2020-21**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour		41990	11203	30329	27142
2	Animal labour					
3	Machine labour				7561	
4	Seed / seedlings	1330	6175	5854	1294	883
5	Farmyard manure and chemical fertilizers	2161	5393	14180	16399	13556
6	Plant protection			1303	2420	1871
7	Land tax and irrigation cess	114	206	261	54	
8	Repair and maintenance charges of implements, machinery and building					1598
9	Interest on working capital	349	5356	3254	5800	4345
10	Other expenses	475	16467	6515	14257	17478
11	<b>Total cost 'A' (1-10)</b>	4429	75586	42569	78114	66872
12	Interest on fixed capital	26636	213	18485	10908	16054
13	<b>Cost 'B1' (11+12)</b>	31066	75799	61055	89023	82926
14	Interest on land value	558125	197600	182786	357339	295788
15	<b>Cost 'B' (13+14)</b>	589191	273399	243840	446362	378714
16	Imputed value of household labour	64220	3293	60890	12941	56053
17	<b>Cost 'C' (15+16)</b>	653411	276692	304731	459303	434767

**A2.23 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Winter) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			65070	34967	33556
2	Animal labour					
3	Machine labour			7500	2495	1502
4	Seed / seedlings	2470		3120	6092	3200
5	Farmyard manure and chemical fertilizers	8469		23620	36080	23152
6	Plant protection					1677
7	Land tax and irrigation cess	21		178	150	316
8	Repair and maintenance charges of implements, machinery and building			70	1010	628
9	Interest on working capital	1094		9931	7963	6309
10	Other expenses			27565	1983	15608
11	<b>Total cost 'A' (1-10)</b>	12054		137054	90741	85948
12	Interest on fixed capital			16338	35184	12051
13	<b>Cost 'B1' (11+12)</b>	12054		153392	125925	97999
14	Interest on land value	197600		156320	376475	388990
15	<b>Cost 'B' (13+14)</b>	209654		309712	502401	486989
16	Imputed value of household labour	24135		62890	77412	62654
17	<b>Cost 'C' (15+16)</b>	233789		372602	579813	549643

**A2.24 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Summer) during 2020-21.**

SI No	Components	Thiruvannthapuram	Kollam	Pathanmitta	Alappuzha	Kottayam
1	Hired human labour	58298	50429	14427	10426	9434
2	Animal labour					
3	Machine labour				6147	
4	Seed / seedlings	2850	1441	3661	4109	2213
5	Farmyard manure and chemical fertilizers	30141	31266	11375	19991	22706
6	Plant protection	1519	463	539	853	3660
7	Land tax and irrigation cess	176	446	785	369	598
8	Repair and maintenance charges of implements, machinery and building		3225	2318		924
9	Interest on working capital	9281	8360	3000	4153	3801
10	Other expenses	47129	30875	21442	15729	8992
11	<b>Total cost 'A' (1-10)</b>	149394	126505	57548	61777	52327
12	Interest on fixed capital	3646	1987	5936	846	1461
13	<b>Cost 'B1' (11+12)</b>	153041	128491	63484	62624	53788
14	Interest on land value	528998	129332	149406	86545	799690
15	<b>Cost 'B' (13+14)</b>	682039	257823	212890	149169	853478
16	Imputed value of household labour	121742	82162	117173	59799	50551
17	<b>Cost 'C' (15+16)</b>	803781	339985	330063	208968	904028

**A2.24 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Summer) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	19855	19855	19855	19855	19855
2	Animal labour					
3	Machine labour	336	336	336	336	336
4	Seed / seedlings	3706	3706	3706	3706	3706
5	Farmyard manure and chemical fertilizers	15810	15810	15810	15810	15810
6	Plant protection	1139	1139	1139	1139	1139
7	Land tax and irrigation cess	185	185	185	185	185
8	Repair and maintenance charges of implements, machinery and building	358	358	358	358	358
9	Interest on working capital	4085	4085	4085	4085	4085
10	Other expenses	15293	15293	15293	15293	15293
11	<b>Total cost 'A' (1-10)</b>	60767	60767	60767	60767	60767
12	Interest on fixed capital	16981	16981	16981	16981	16981
13	<b>Cost 'B1' (11+12)</b>	77748	77748	77748	77748	77748
14	Interest on land value	314982	314982	314982	314982	314982
15	<b>Cost 'B' (13+14)</b>	392730	392730	392730	392730	392730
16	Imputed value of household labour	60024	60024	60024	60024	60024
17	<b>Cost 'C' (15+16)</b>	452754	452754	452754	452754	452754

**A2.24 District wise Cost of Cultivation per hectare (in Rs) of Cucumber (Summer) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	1637		27855	37426	23280
2	Animal labour					
3	Machine labour			604	5411	2134
4	Seed / seedlings	8072		10511	6487	4538
5	Farmyard manure and chemical fertilizers	55069		26310	39303	25687
6	Plant protection	149		113		1257
7	Land tax and irrigation cess	106		354	35	290
8	Repair and maintenance charges of implements, machinery and building	30		114	60	872
9	Interest on working capital	6493		6539	8863	5690
10	Other expenses	11249		16230	12405	18111
11	<b>Total cost 'A' (1-10)</b>	82804		88630	109989	81859
12	Interest on fixed capital	858		32936	47214	17473
13	<b>Cost 'B1' (11+12)</b>	83662		121566	157202	99332
14	Interest on land value	227508		241630	237280	331649
15	<b>Cost 'B' (13+14)</b>	311170		363197	394483	430981
16	Imputed value of household labour	94783		90162	80668	76026
17	<b>Cost 'C' (15+16)</b>	405952		453358	475151	507007

**A2.25 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Autumn) during 2020-21.**

Sl No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour			53241	36964	54239
2	Animal labour					
3	Machine labour				2153	
4	Seed / seedlings			7218	6458	4646
5	Farmyard manure and chemical fertilizers			17796	36153	38870
6	Plant protection			805	5008	3148
7	Land tax and irrigation cess			212	604	846
8	Repair and maintenance charges of implements, machinery and building			1581		941
9	Interest on working capital			7906	8674	10090
10	Other expenses			35544	38763	30626
11	<b>Total cost 'A' (1-10)</b>			124302	134776	143408
12	Interest on fixed capital			23877	3330	561
13	<b>Cost 'B1' (11+12)</b>			148179	138106	143969
14	Interest on land value			178218	239069	469305
15	<b>Cost 'B' (13+14)</b>			326397	377175	613274
16	Imputed value of household labour			73728	59484	70377
17	<b>Cost 'C' (15+16)</b>			400124	436659	683651

**A2.25 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Autumn) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			15072	6012	29810
2	Animal labour					
3	Machine labour			2365	4194	
4	Seed / seedlings			3165	9698	1461
5	Farmyard manure and chemical fertilizers			13352	7079	19903
6	Plant protection			1363	3266	5832
7	Land tax and irrigation cess			76	130	43
8	Repair and maintenance charges of implements, machinery and building			62	839	1821
9	Interest on working capital			3532	3025	5701
10	Other expenses			25804	19574	49070
11	<b>Total cost 'A' (1-10)</b>			64791	53817	113640
12	Interest on fixed capital			325	9421	2169
13	<b>Cost 'B1' (11+12)</b>			65117	63237	115809
14	Interest on land value			2061806	185172	276938
15	<b>Cost 'B' (13+14)</b>			2126922	248409	392747
16	Imputed value of household labour			58036	35888	77837
17	<b>Cost 'C' (15+16)</b>			2184958	284297	470584

**A2.25 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Autumn) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			57394		35594
2	Animal labour					
3	Machine labour			17964		1531
4	Seed / seedlings	7101		7410		4866
5	Farmyard manure and chemical fertilizers	60515		54178		25699
6	Plant protection					2481
7	Land tax and irrigation cess	86		449		430
8	Repair and maintenance charges of implements, machinery and building					687
9	Interest on working capital	6762		13695		7017
10	Other expenses	19760		76795		30352
11	<b>Total cost 'A' (1-10)</b>	94224		227884		108657
12	Interest on fixed capital	1750		1364		3530
13	<b>Cost 'B1' (11+12)</b>	95974		229248		112187
14	Interest on land value	340860		62873		896884
15	<b>Cost 'B' (13+14)</b>	436834		292120		1009071
16	Imputed value of household labour	57675		71046		63524
17	<b>Cost 'C' (15+16)</b>	494509		363167		1072595

**A2.26 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard( Winter) during 2020-21.**

SI No	Components	Thiruvannthapuram	Kollam	Pathanmitta	Alappuzha	Kottayam
1	Hired human labour	104980	59871	64038	46793	44063
2	Animal labour					
3	Machine labour				5099	309
4	Seed / seedlings	3249	6580	9655	10929	4616
5	Farmyard manure and chemical fertilizers	46830	41881	13865	37012	32306
6	Plant protection	2037	1191	1734	3792	4367
7	Land tax and irrigation cess	187	459	25	365	608
8	Repair and maintenance charges of implements, machinery and building	81	7347	826	103	1691
9	Interest on working capital	15710	10952	8929	10362	8566
10	Other expenses	34931	52510	38803	50488	24544
11	<b>Total cost 'A' (1-10)</b>	208004	180791	137877	164944	121069
12	Interest on fixed capital	2666	2843	1869	1019	1058
13	<b>Cost 'B1' (11+12)</b>	210670	183635	139746	165964	122127
14	Interest on land value	388940	87384	243494	286677	906669
15	<b>Cost 'B' (13+14)</b>	599609	271018	383239	452641	1028796
16	Imputed value of household labour	89977	113523	68664	119261	91397
17	<b>Cost 'C' (15+16)</b>	689586	384541	451903	571902	1120193

**A2.26 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Winter) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	67083	42585	14692	11057	29874
2	Animal labour					
3	Machine labour				762	
4	Seed / seedlings	3558	3933	4111	5208	1399
5	Farmyard manure and chemical fertilizers	18396	22230	14093	6685	25751
6	Plant protection	1432	2153	1632	1115	3403
7	Land tax and irrigation cess	6	184	155	113	17
8	Repair and maintenance charges of implements, machinery and building		614	194		868
9	Interest on working capital	9047	7090	3453	2483	6043
10	Other expenses	68506	23934	26304	11450	42956
11	<b>Total cost 'A' (1-10)</b>	168027	102724	64634	38871	110310
12	Interest on fixed capital	4374	5550	11145	23594	7625
13	<b>Cost 'B1' (11+12)</b>	172401	108273	75779	62466	117935
14	Interest on land value	405676	432624	1165147	189665	351356
15	<b>Cost 'B' (13+14)</b>	578077	540897	1240927	252130	469291
16	Imputed value of household labour	11452	46487	69099	32274	82274
17	<b>Cost 'C' (15+16)</b>	589528	587384	1310026	284405	551566

**A2.26 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Winter) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			111782		49992
2	Animal labour					
3	Machine labour			7904		896
4	Seed / seedlings	7009		8378	9371	5661
5	Farmyard manure and chemical fertilizers	36382		50062	56949	26762
6	Plant protection					2354
7	Land tax and irrigation cess	167		99	154	242
8	Repair and maintenance charges of implements, machinery and building			109		959
9	Interest on working capital	4339		17813	6632	8566
10	Other expenses	8345		70543	5403	36578
11	<b>Total cost 'A' (1-10)</b>	56243		266690	78509	132010
12	Interest on fixed capital	1033		21459	201467	6705
13	<b>Cost 'B1' (11+12)</b>	57276		288149	279976	138715
14	Interest on land value	197600		113422	245456	484886
15	<b>Cost 'B' (13+14)</b>	254876		401571	525432	623601
16	Imputed value of household labour	73232		121149	215214	74617
17	<b>Cost 'C' (15+16)</b>	328108		522720	740646	698218

**A2.27 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Summer) during 2020-21.**

SI No	Components	Thiruvananthapuram	Kollam	Pathanamthitta	Alappuzha	Kottayam
1	Hired human labour	96235	66582	54037	29347	56707
2	Animal labour					
3	Machine labour				5380	265
4	Seed / seedlings	3464	6544	8840	8269	4522
5	Farmyard manure and chemical fertilizers	38979	34701	14785	26197	32381
6	Plant protection	1673	1252	1646	2732	3405
7	Land tax and irrigation cess	265	484	55	289	679
8	Repair and maintenance charges of implements, machinery and building	678	6579	2515		868
9	Interest on working capital	14035	10908	7931	7192	9728
10	Other expenses	41174	45809	45138	47159	23732
11	<b>Total cost 'A' (1-10)</b>	196504	172858	134947	126563	132288
12	Interest on fixed capital	3021	2850	11754	1450	692
13	<b>Cost 'B1' (11+12)</b>	199525	175708	146701	128013	132980
14	Interest on land value	350966	36156	242208	149252	624028
15	<b>Cost 'B' (13+14)</b>	550491	211864	388909	277265	757008
16	Imputed value of household labour	127351	68112	118809	123860	75574
17	<b>Cost 'C' (15+16)</b>	677842	279977	507718	401125	832582

**A2.27 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Summer) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour	71431	15515	19731	10738	27088
2	Animal labour					
3	Machine labour					988
4	Seed / seedlings	3248	2132	4622	10363	6827
5	Farmyard manure and chemical fertilizers	23295	21507	16524	15149	27197
6	Plant protection	1139	2836	1805	2421	5413
7	Land tax and irrigation cess		110	166	137	16
8	Repair and maintenance charges of implements, machinery and building		1134	36		3178
9	Interest on working capital	9911	4199	4268	3867	6751
10	Other expenses	52650	11966	30064	23396	55200
11	<b>Total cost 'A' (1-10)</b>	161674	59399	77217	66071	132658
12	Interest on fixed capital	406	8721	13841	20712	29623
13	<b>Cost 'B1' (11+12)</b>	162080	68120	91058	86784	162281
14	Interest on land value	467665	256112	932187	304873	285922
15	<b>Cost 'B' (13+14)</b>	629746	324231	1023245	391657	448203
16	Imputed value of household labour	6175	28268	71406	34140	93628
17	<b>Cost 'C' (15+16)</b>	635921	352499	1094651	425796	541831

**A2.27 District wise Cost of Cultivation per hectare (in Rs) of Snake Guard (Summer) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			18525	30173	49888
2	Animal labour					
3	Machine labour				5052	983
4	Seed / seedlings	9050		7904	8533	5885
5	Farmyard manure and chemical fertilizers	48974		48165	67817	28108
6	Plant protection				1572	2321
7	Land tax and irrigation cess	30		247	138	298
8	Repair and maintenance charges of implements, machinery and building			371		1210
9	Interest on working capital	5802		7459	11315	8719
10	Other expenses	15757		57057	10385	36804
11	<b>Total cost 'A' (1-10)</b>	79613		139728	134985	134216
12	Interest on fixed capital	1435		103406	132608	9086
13	<b>Cost 'B1' (11+12)</b>	81048		243134	267593	143302
14	Interest on land value	281069		1512875	133268	400070
15	<b>Cost 'B' (13+14)</b>	362117		1756009	400861	543372
16	Imputed value of household labour	57875		249161	176352	85650
17	<b>Cost 'C' (15+16)</b>	419991		2005170	577213	629022

**A2.28 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Autumn) during 2020-21.**

SI No	Components	Thiruvannthapuram	Kollam	Pathanmthitta	Alappuzha	Kottayam
1	Hired human labour			31259	195624	16263
2	Animal labour					
3	Machine labour					
4	Seed / seedlings			7829	5928	5875
5	Farmyard manure and chemical fertilizers			32203	50882	17927
6	Plant protection			472	5928	1250
7	Land tax and irrigation cess			270	613	
8	Repair and maintenance charges of implements, machinery and building			1398		4357
9	Interest on working capital			7176	25836	4132
10	Other expenses			20482	55130	7076
11	<b>Total cost 'A' (1-10)</b>			101091	339941	56880
12	Interest on fixed capital			151286	18050	2319
13	<b>Cost 'B1' (11+12)</b>			252377	357991	59199
14	Interest on land value			391539	370500	701001
15	<b>Cost 'B' (13+14)</b>			643916	728491	760200
16	Imputed value of household labour			152040	66690	77533
17	<b>Cost 'C' (15+16)</b>			795956	795181	837733

**A2.28 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Autumn) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour			4129	29656	67353
2	Animal labour					
3	Machine labour				5037	
4	Seed / seedlings			4494	3120	3089
5	Farmyard manure and chemical fertilizers			12058	25321	14430
6	Plant protection			1469	1560	910
7	Land tax and irrigation cess			129	92	426
8	Repair and maintenance charges of implements, machinery and building			198		444
9	Interest on working capital			2215	6470	8578
10	Other expenses			7467	7864	4248
11	<b>Total cost 'A' (1-10)</b>			32159	79121	99478
12	Interest on fixed capital			1179	16779	298
13	<b>Cost 'B1' (11+12)</b>			33338	95900	99776
14	Interest on land value			782470	225566	463837
15	<b>Cost 'B' (13+14)</b>			815808	321466	563613
16	Imputed value of household labour			57807	17129	33164
17	<b>Cost 'C' (15+16)</b>			873615	338596	596777

**A2.28 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Autumn) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour	6760	9880	102093		38625
2	Animal labour					
3	Machine labour					1403
4	Seed / seedlings	8151	4631	8398		4264
5	Farmyard manure and chemical fertilizers	68250	10843	23712		22518
6	Plant protection		1235			1212
7	Land tax and irrigation cess	62	741			218
8	Repair and maintenance charges of implements, machinery and building		4323			576
9	Interest on working capital	8316	2659	13420		6802
10	Other expenses	4758	11115	37873		8467
11	<b>Total cost 'A' (1-10)</b>	96298	45427	185497		84085
12	Interest on fixed capital	618	3250	1583		11347
13	<b>Cost 'B1' (11+12)</b>	96916	48677	187080		95432
14	Interest on land value	257400	247000	98800		440992
15	<b>Cost 'B' (13+14)</b>	354316	295677	285880		536424
16	Imputed value of household labour	53586	68543	73606		44155
17	<b>Cost 'C' (15+16)</b>	407902	364220	359486		580579

**A2.29 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Winter) during 2020-21.**

SI No	Components	Thiruvananthapuram	Kollam	Pathanamthitta	Alappuzha	Kottayam
1	Hired human labour	109400	56892	28051	62244	50080
2	Animal labour					
3	Machine labour					
4	Seed / seedlings	3149	4168	4778	7361	5699
5	Farmyard manure and chemical fertilizers	67205	36327	16600	29517	22777
6	Plant protection	1714	5170	736	1606	1642
7	Land tax and irrigation cess	130	427	85	612	103
8	Repair and maintenance charges of implements, machinery and building		7239	810		2470
9	Interest on working capital	18147	10256	5016	10073	8020
10	Other expenses	61544	11578	20853	9016	11741
11	<b>Total cost 'A' (1-10)</b>	261288	132057	76929	120427	102533
12	Interest on fixed capital	6037	3756	6740	3838	1902
13	<b>Cost 'B1' (11+12)</b>	267325	135813	83669	124264	104435
14	Interest on land value	257292	118324	442130	298870	688778
15	<b>Cost 'B' (13+14)</b>	524617	254137	525800	423134	793213
16	Imputed value of household labour	138948	79636	51858	129922	39213
17	<b>Cost 'C' (15+16)</b>	663565	333773	577658	553056	832426

**A2.29 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Winter) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour		14271	11115	27294	24350
2	Animal labour					
3	Machine labour				2729	2591
4	Seed / seedlings		1464	5759	1440	4224
5	Farmyard manure and chemical fertilizers		20309	9137	11228	20939
6	Plant protection		1830	1470	378	1799
7	Land tax and irrigation cess		229	229	131	73
8	Repair and maintenance charges of implements, machinery and building			95		35154
9	Interest on working capital		3787	2748	4307	5390
10	Other expenses		15094	6287	7556	23616
11	<b>Total cost 'A' (1-10)</b>		56984	36840	55064	118136
12	Interest on fixed capital		1077	12962	33230	41424
13	<b>Cost 'B1' (11+12)</b>		58061	49802	88294	159561
14	Interest on land value		653178	438899	198658	342993
15	<b>Cost 'B' (13+14)</b>		711239	488701	286952	502554
16	Imputed value of household labour		40664	48712	30524	73711
17	<b>Cost 'C' (15+16)</b>		751902	537413	317476	576265

**A2.29 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Winter) during 2020-21.**

Sl No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			53352	32647	34594
2	Animal labour					
3	Machine labour					982
4	Seed / seedlings	11115	4323	15215	7433	4734
5	Farmyard manure and chemical fertilizers	41235	7509	29037	33219	22676
6	Plant protection		5928			1343
7	Land tax and irrigation cess	78	741	222	126	186
8	Repair and maintenance charges of implements, machinery and building		11115	124	2571	6005
9	Interest on working capital	5235	1776	9760	7330	6433
10	Other expenses	23289	2470	24453	5056	14450
11	<b>Total cost 'A' (1-10)</b>	80951	33861	132164	88382	91403
12	Interest on fixed capital	786	47250	75680	87144	28126
13	<b>Cost 'B1' (11+12)</b>	81737	81111	207844	175526	119529
14	Interest on land value	197600	49993	153832	371884	335726
15	<b>Cost 'B' (13+14)</b>	279337	131104	361675	547409	455255
16	Imputed value of household labour	60339	181545	133257	110121	68253
17	<b>Cost 'C' (15+16)</b>	339675	312649	494932	657530	523508

**A2.30 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Summer) during 2020-21.**

SI No	Components	Thiruvananthapuram	Kollam	Pathanamthitta	Alappuzha	Kottayam
1	Hired human labour	151446	35150	37544	60443	40107
2	Animal labour					
3	Machine labour				644	
4	Seed / seedlings	4370	1548	4940	5075	5444
5	Farmyard manure and chemical fertilizers	103186	37563	6840	37224	10051
6	Plant protection	2818	438	926	2975	660
7	Land tax and irrigation cess	79	408	159	440	
8	Repair and maintenance charges of implements, machinery and building		5035	1411		2397
9	Interest on working capital	26182	7470	5025	10636	5626
10	Other expenses	87558	15200	22583	20237	9183
11	<b>Total cost 'A' (1-10)</b>	375639	102813	79429	137674	73468
12	Interest on fixed capital	9091	4118	929	3590	335
13	<b>Cost 'B1' (11+12)</b>	384730	106931	80357	141265	73803
14	Interest on land value	422433	112290	320727	309656	918130
15	<b>Cost 'B' (13+14)</b>	807163	219221	401084	450921	991933
16	Imputed value of household labour	152364	111388	31510	144786	51171
17	<b>Cost 'C' (15+16)</b>	959528	330609	432595	595707	1043104

**A2.30 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Summer) during 2020-21.**

SI No	Components	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram
1	Hired human labour		13585	23319	27260	30790
2	Animal labour					
3	Machine labour				5422	2177
4	Seed / seedlings		1166	4652	5060	4385
5	Farmyard manure and chemical fertilizers		16261	12671	41201	25032
6	Plant protection			1766	2440	1306
7	Land tax and irrigation cess		206	224	78	
8	Repair and maintenance charges of implements, machinery and building			14		2052
9	Interest on working capital		3101	4241	8138	6369
10	Other expenses		11321	8550	11507	23914
11	<b>Total cost 'A' (1-10)</b>		45640	55436	101107	96025
12	Interest on fixed capital		1100	18122	43212	16777
13	<b>Cost 'B1' (11+12)</b>		46740	73558	144319	112802
14	Interest on land value		4697803	1114080	183948	356676
15	<b>Cost 'B' (13+14)</b>		4744543	1187638	328267	469478
16	Imputed value of household labour		51047	40988	27209	77322
17	<b>Cost 'C' (15+16)</b>		4795590	1228627	355476	546800

**A2.30 District wise Cost of Cultivation per hectare (in Rs) of Ladies Finger (Summer) during 2020-21.**

SI No	Components	Kozhikode	Wayanad	Kannur	Kasargod	State
1	Hired human labour			20113	7025	31856
2	Animal labour					
3	Machine labour					770
4	Seed / seedlings	10005		18317	6019	6378
5	Farmyard manure and chemical fertilizers	40826		26953	49725	32892
6	Plant protection	109		456	940	1394
7	Land tax and irrigation cess	81		312	42	152
8	Repair and maintenance charges of implements, machinery and building	65		267	1484	847
9	Interest on working capital	5094		6584	6371	7329
10	Other expenses	20304		16712	3767	18704
11	<b>Total cost 'A' (1-10)</b>	76484		89713	75373	100322
12	Interest on fixed capital	1288		56294	100048	24990
13	<b>Cost 'B1' (11+12)</b>	77772		146007	175421	125312
14	Interest on land value	217730		225633	144563	518328
15	<b>Cost 'B' (13+14)</b>	295502		371640	319984	643640
16	Imputed value of household labour	80030		116796	132179	89760
17	<b>Cost 'C' (15+16)</b>	375532		488436	452163	733400

<b>A2.31 District wise Cost of Cultivation per hectare (in Rs) of Cabbage (Autumn) during 2020-21.</b>			
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>State</b>
1	Hired human labour	121247	121247
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	26576	26576
5	Farmyard manure and chemical fertilizers	11375	11375
6	Plant protection	659	659
7	Land tax and irrigation cess	69	69
8	Repair and maintenance charges of implements, machinery and building	7937	7937
9	Interest on working capital	15986	15986
10	Other expenses	14359	14359
11	<b>Total cost 'A' (1-10)</b>	198208	198208
12	Interest on fixed capital	18806	18806
13	<b>Cost 'B1' (11+12)</b>	217014	217014
14	Interest on land value	92081	92081
15	<b>Cost 'B' (13+14)</b>	309095	309095
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	309095	309095

<b>A2.31 District wise Cost of Cultivation per hectare (in Rs) of Cabbage (Winter) during 2020-21.</b>			
Sl No	Components	Idukki	State
1	Hired human labour	158791	158791
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	21167	21167
5	Farmyard manure and chemical fertilizers	17488	17488
6	Plant protection	468	468
7	Land tax and irrigation cess	84	84
8	Repair and maintenance charges of implements, machinery and building	6027	6027
9	Interest on working capital	19791	19791
10	Other expenses	11395	11395
11	<b>Total cost 'A' (1-10)</b>	235211	235211
12	Interest on fixed capital	17990	17990
13	<b>Cost 'B1' (11+12)</b>	253201	253201
14	Interest on land value	92081	92081
15	<b>Cost 'B' (13+14)</b>	345282	345282
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	345282	345282

<b>A2.31 District wise Cost of Cultivation per hectare (in Rs) of Cabbage (Summer) during 2020-21.</b>			
<b>SI No</b>	<b>Components</b>	<b>Idukki</b>	<b>State</b>
1	Hired human labour	156422	156422
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	74326	74326
5	Farmyard manure and chemical fertilizers	21764	21764
6	Plant protection	1081	1081
7	Land tax and irrigation cess	93	93
8	Repair and maintenance charges of implements, machinery and building	8032	8032
9	Interest on working capital	25359	25359
10	Other expenses	5147	5147
11	<b>Total cost 'A' (1-10)</b>	292224	292224
12	Interest on fixed capital	33345	33345
13	<b>Cost 'B1' (11+12)</b>	325569	325569
14	Interest on land value	107229	107229
15	<b>Cost 'B' (13+14)</b>	432798	432798
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	432798	432798

<b>A2.32 District wise Cost of Cultivation per hectare (in Rs) of Carrot (Autumn) during 2020-21.</b>			
<b>SI No</b>	<b>Components</b>	<b>Idukki</b>	<b>State</b>
1	Hired human labour	156650	156650
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	6267	6267
5	Farmyard manure and chemical fertilizers	20800	20800
6	Plant protection	472	472
7	Land tax and irrigation cess	59	59
8	Repair and maintenance charges of implements, machinery and building	4422	4422
9	Interest on working capital	18419	18419
10	Other expenses	12185	12185
11	<b>Total cost 'A' (1-10)</b>	219274	219274
12	Interest on fixed capital	13239	13239
13	<b>Cost 'B1' (11+12)</b>	232513	232513
14	Interest on land value	87974	87974
15	<b>Cost 'B' (13+14)</b>	320487	320487
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	320487	320487

<b>A2.32 District wise Cost of Cultivation per hectare (in Rs) of Carrot (Winter) during 2020-21.</b>			
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>State</b>
1	Hired human labour	186174	186174
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	7949	7949
5	Farmyard manure and chemical fertilizers	24945	24945
6	Plant protection	494	494
7	Land tax and irrigation cess	46	46
8	Repair and maintenance charges of implements, machinery and building	4035	4035
9	Interest on working capital	21956	21956
10	Other expenses	9562	9562
11	<b>Total cost 'A' (1-10)</b>	255161	255161
12	Interest on fixed capital	13042	13042
13	<b>Cost 'B1' (11+12)</b>	268203	268203
14	Interest on land value	89991	89991
15	<b>Cost 'B' (13+14)</b>	358194	358194
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	358194	358194

**A2.36 District wise Cost of Cultivation per hectare (in Rs) of Carrot (Summer) during 2020-21.**

Sl No	Components	Idukki	State
1	Hired human labour	175591	175591
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	16856	16856
5	Farmyard manure and chemical fertilizers	24298	24298
6	Plant protection	486	486
7	Land tax and irrigation cess	111	111
8	Repair and maintenance charges of implements, machinery and building	16165	16165
9	Interest on working capital	21723	21723
10	Other expenses	13053	13053
11	<b>Total cost 'A' (1-10)</b>	268283	268283
12	Interest on fixed capital	54830	54830
13	<b>Cost 'B1' (11+12)</b>	323113	323113
14	Interest on land value	106051	106051
15	<b>Cost 'B' (13+14)</b>	429164	429164
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	429164	429164

**A2.37 District wise Cost of Cultivation per hectare (in Rs) of Potato (Autumn) during 2020-21.**

SI No	Components	Idukki	State
1	Hired human labour	105089	105089
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	27271	27271
5	Farmyard manure and chemical fertilizers	28770	28770
6	Plant protection	439	439
7	Land tax and irrigation cess	98	98
8	Repair and maintenance charges of implements, machinery and building	3196	3196
9	Interest on working capital	16157	16157
10	Other expenses	10396	10396
11	<b>Total cost 'A' (1-10)</b>	191416	191416
12	Interest on fixed capital	11275	11275
13	<b>Cost 'B1' (11+12)</b>	202691	202691
14	Interest on land value	95268	95268
15	<b>Cost 'B' (13+14)</b>	297959	297959
16	Imputed value of household labour	1548	1548
17	<b>Cost 'C' (15+16)</b>	299507	299507

**A2.38 District wise Cost of Cultivation per hectare (in Rs) of Potato (Winter) during 2020-21.**

SI No	Components	Idukki	State
1	Hired human labour	110306	110306
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	31578	31578
5	Farmyard manure and chemical fertilizers	16865	16865
6	Plant protection	183	183
7	Land tax and irrigation cess	102	102
8	Repair and maintenance charges of implements, machinery and building	6878	6878
9	Interest on working capital	15893	15893
10	Other expenses	5128	5128
11	<b>Total cost 'A' (1-10)</b>	186933	186933
12	Interest on fixed capital	22894	22894
13	<b>Cost 'B1' (11+12)</b>	209827	209827
14	Interest on land value	97312	97312
15	<b>Cost 'B' (13+14)</b>	307139	307139
16	Imputed value of household labour	3127	3127
17	<b>Cost 'C' (15+16)</b>	310266	310266

**A2.39 District wise Cost of Cultivation per hectare (in Rs) of Beans (Autumn) during 2020-21.**

SI No	Components	Idukki	State
1	Hired human labour	88565	88565
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	40702	40702
5	Farmyard manure and chemical fertilizers	16509	16509
6	Plant protection	604	604
7	Land tax and irrigation cess	39	39
8	Repair and maintenance charges of implements, machinery and building	4412	4412
9	Interest on working capital	14638	14638
10	Other expenses	2871	2871
11	<b>Total cost 'A' (1-10)</b>	168340	168340
12	Interest on fixed capital	12103	12103
13	<b>Cost 'B1' (11+12)</b>	180443	180443
14	Interest on land value	84041	84041
15	<b>Cost 'B' (13+14)</b>	264484	264484
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	264484	264484

<b>A2.39 District wise Cost of Cultivation per hectare (in Rs) of Beans (Winter) during 2020-21.</b>			
<b>Sl No</b>	<b>Components</b>	<b>Idukki</b>	<b>State</b>
1	Hired human labour	83532	83532
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	33947	33947
5	Farmyard manure and chemical fertilizers	14630	14630
6	Plant protection	730	730
7	Land tax and irrigation cess		
8	Repair and maintenance charges of implements, machinery and building	3737	3737
9	Interest on working capital	13284	13284
10	Other expenses	9078	9078
11	<b>Total cost 'A' (1-10)</b>	158938	158938
12	Interest on fixed capital	11323	11323
13	<b>Cost 'B1' (11+12)</b>	170261	170261
14	Interest on land value	87736	87736
15	<b>Cost 'B' (13+14)</b>	257997	257997
16	Imputed value of household labour		
17	<b>Cost 'C' (15+16)</b>	257997	257997

**A2.40 District wise Cost of Cultivation per hectare (in Rs) of Beans (Summer) during  
2020-21.**

SI No	Components	Idukki	State
1	Hired human labour	98654	98654
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	37187	37187
5	Farmyard manure and chemical fertilizers	22413	22413
6	Plant protection	2245	2245
7	Land tax and irrigation cess	123	123
8	Repair and maintenance charges of implements, machinery and building	5397	5397
9	Interest on working capital	16050	16050
10	Other expenses	1830	1830
11	<b>Total cost 'A' (1-10)</b>	183899	183899
12	Interest on fixed capital	25275	25275
13	<b>Cost 'B1' (11+12)</b>	209174	209174
14	Interest on land value	125147	125147
15	<b>Cost 'B' (13+14)</b>	334321	334321
16	Imputed value of household labour	6953	6953
17	<b>Cost 'C' (15+16)</b>	341274	341274

**A2.41 District wise Cost of Cultivation per hectare (in Rs) of Garlic (Autumn) during 2020-21.**

SI No	Components	Idukki	State
1	Hired human labour	184333	184333
2	Animal labour		
3	Machine labour		
4	Seed / seedlings	120354	120354
5	Farmyard manure and chemical fertilizers	7175	7175
6	Plant protection		
7	Land tax and irrigation cess	66	66
8	Repair and maintenance charges of implements, machinery and building	6940	6940
9	Interest on working capital	31186	31186
10	Other expenses	16290	16290
11	<b>Total cost 'A' (1-10)</b>	366344	366344
12	Interest on fixed capital	20965	20965
13	<b>Cost 'B1' (11+12)</b>	387309	387309
14	Interest on land value	90476	90476
15	<b>Cost 'B' (13+14)</b>	477785	477785
16	Imputed value of household labour	1647	1647
17	<b>Cost 'C' (15+16)</b>	479432	479432

**A2.42 District wise Cost of Cultivation per hectare (in Rs) of Tomato (Autumn) during 2020-21.**

Sl No	Components	Palakkad	State
1	Hired human labour	32276	32276
2	Animal labour		
3	Machine labour	10617	10617
4	Seed / seedlings	14218	14218
5	Farmyard manure and chemical fertilizers	45407	45407
6	Plant protection	2408	2408
7	Land tax and irrigation cess	162	162
8	Repair and maintenance charges of implements, machinery and building		
9	Interest on working capital	10493	10493
10	Other expenses	20320	20320
11	<b>Total cost 'A' (1-10)</b>	135901	135901
12	Interest on fixed capital	11290	11290
13	<b>Cost 'B1' (11+12)</b>	147191	147191
14	Interest on land value	101906	101906
15	<b>Cost 'B' (13+14)</b>	249097	249097
16	Imputed value of household labour	32473	32473
17	<b>Cost 'C' (15+16)</b>	281570	281570

**A2.43 District wise Cost of Cultivation per hectare (in Rs) of Tomato (Winter) during 2020-21.**

SI No	Components	Palakkad	State
1	Hired human labour	38736	38736
2	Animal labour		
3	Machine labour	8730	8730
4	Seed / seedlings	12608	12608
5	Farmyard manure and chemical fertilizers	39737	39737
6	Plant protection	2434	2434
7	Land tax and irrigation cess	282	282
8	Repair and maintenance charges of implements, machinery and building		
9	Interest on working capital	10225	10225
10	Other expenses	15740	15740
11	<b>Total cost 'A' (1-10)</b>	128492	128492
12	Interest on fixed capital	20313	20313
13	<b>Cost 'B1' (11+12)</b>	148805	148805
14	Interest on land value	113829	113829
15	<b>Cost 'B' (13+14)</b>	262634	262634
16	Imputed value of household labour	29596	29596
17	<b>Cost 'C' (15+16)</b>	292230	292230

**A2.44 District wise Cost of Cultivation per hectare (in Rs) of Tomato (Summer) during 2020-21.**

Sl No	Components	Palakkad	State
1	Hired human labour	48732	48732
2	Animal labour		
3	Machine labour	11546	11546
4	Seed / seedlings	14820	14820
5	Farmyard manure and chemical fertilizers	50764	50764
6	Plant protection	2588	2588
7	Land tax and irrigation cess	376	376
8	Repair and maintenance charges of implements, machinery and building		
9	Interest on working capital	12845	12845
10	Other expenses	17461	17461
11	<b>Total cost 'A' (1-10)</b>	159132	159132
12	Interest on fixed capital	10044	10044
13	<b>Cost 'B1' (11+12)</b>	169176	169176
14	Interest on land value	94618	94618
15	<b>Cost 'B' (13+14)</b>	263794	263794
16	Imputed value of household labour	12265	12265
17	<b>Cost 'C' (15+16)</b>	276059	276059

<b>A 3.1 Percentage of Hired human labour hours to total human labour hours under Autumn Paddy</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	29.41	48.73	78.14
2	Kollam	34.07	46.63	80.7
3	Pathanamthitta	43.85	43.8	87.65
4	Alappuzha	30.97	57.4	88.37
5	Kottayam	41.19	27.6	68.79
6	Idukki	56.93	35.69	92.62
7	Eranakulam	47.12	28.16	75.28
8	Thrissur	65.56	13.7	79.26
9	Palakkad	13.01	74.35	87.36
10	Malappuram	35.14	47.23	82.37
11	Kozhikkode	28.95	38.47	67.42
12	Wayanad			0
13	Kannur	16.49	64.59	81.08
14	Kasaragod	11.24	69.6	80.84
	<b>State</b>	<b>34.34</b>	<b>46.72</b>	<b>81.05</b>

<b>A 3.2 Percentage of Hired human labour hours to total human labour hours under Winter Paddy</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	32.68	44.8	77.48
2	Kollam	32.95	46.95	79.9
3	Pathanamthitta	58.61	32.58	91.19
4	Alappuzha	34.73	49.65	84.38
5	Kottayam	39.08	29.05	68.13
6	Idukki	53.48	37.69	91.17
7	Eranakulam	52.5	29.29	81.79
8	Thrissur	50.51	18.89	69.4
9	Palakkad	14.5	75.54	90.04
10	Malappuram	50.04	35.41	85.45
11	Kozhikkode	31.28	33.64	64.92
12	Wayanad	32.3	43.63	75.93
13	Kannur	16.83	60.33	77.16
14	Kasaragod	11.96	54.14	66.1
	<b>State</b>	<b>42.27</b>	<b>40.25</b>	<b>82.52</b>

<b>A 3.3 Percentage of Hired human labour hours to total human labour hours under Summer Paddy</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	31.27	42.7	73.97
2	Kollam	29.86	60.79	90.65
3	Pathanamthitta	49.2	40.4	89.6
4	Alappuzha	38.58	46.82	85.4
5	Kottayam	52.64	30.84	83.48
6	Idukki	90.22	0	90.22
7	Eranakulam	50.82	25.97	76.79
8	Thrissur	62.74	17.71	80.45
9	Palakkad	8.71	77.72	86.43
10	Malappuram	61.73	18.16	79.89
11	Kozhikkode	34.56	41.69	76.25
12	Wayanad	34.49	40.34	74.83
13	Kannur	10.31	57.8	68.11
14	Kasaragod	10.42	61.12	71.54
	<b>State</b>	<b>45.33</b>	<b>39.6</b>	<b>84.93</b>

<b>A 3.4 Percentage of Hired human labour hours to total human labour hours under Coconut</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	68.26	0.06	68.32
2	Kollam	78.78	0	78.78
3	Pathanamthitta	82.81	0	82.81
4	Alappuzha	73.03	0.31	73.34
5	Kottayam	80.19	0	80.19
6	Idukki	85.03	0	85.03
7	Eranakulam	79.92	0	79.92
8	Thrissur	68.38	11.17	79.55
9	Palakkad	65.44	14.79	80.23
10	Malappuram	78.33	5.52	83.85
11	Kozhikkode	74.52	2.47	76.99
12	Wayanad	56.82	18.67	75.49
13	Kannur	75.03	14.01	89.04
14	Kasaragod	41.94	32.45	74.39
	<b>State</b>	<b>72.01</b>	<b>7.7</b>	<b>79.71</b>

<b>A 3.5 Percentage of Hired human labour hours to total human labour hours under Arecanut</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	68.62	1.06	69.68
2	Kollam	79.83	0	79.83
3	Pathanamthitta	52.26	1.49	53.75
4	Alappuzha	22.56	0	22.56
5	Kottayam	80.31	0	80.31
6	Idukki	59.2	0	59.2
7	Eranakulam	83.05	0	83.05
8	Thrissur	75.71	9.61	85.32
9	Palakkad	52.11	23.73	75.84
10	Malappuram	64.84	12.08	76.92
11	Kozhikkode	76.7	0	76.7
12	Wayanad	45.33	31.54	76.87
13	Kannur	48.77	27.62	76.39
14	Kasaragod	38.41	30.82	69.23
	<b>State</b>	<b>59.88</b>	<b>15.78</b>	<b>75.66</b>

<b>A 3.6 Percentage of Hired human labour hours to total human labour hours under Tapioca</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	71.5	0	71.5
2	Kollam	63.86	0	63.86
3	Pathanamthitta	63.74	0.31	64.05
4	Alappuzha	47.55	7.73	55.28
5	Kottayam	48.79	0.42	49.21
6	Idukki	64.53	24.21	88.74
7	Eranakulam	86.94	0	86.94
8	Thrissur	37.13	7.47	44.6
9	Palakkad	35.55	17.7	53.25
10	Malappuram	51.95	6.69	58.64
11	Kozhikkode	39.8	1.21	41.01
12	Wayanad	66.23	0	66.23
13	Kannur	57.99	32.1	90.09
14	Kasaragod	29.1	33.33	62.43
	<b>State</b>	<b>58.07</b>	<b>7.78</b>	<b>65.85</b>

**A 3.7 Percentage of Hired human labour hours to total human labour hours under Banana**

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	71.86	0	71.86
2	Kollam	72.74	0	72.74
3	Pathanamthitta	47.32	0	47.32
4	Alappuzha	54.09	0.72	54.81
5	Kottayam	38.18	2.9	41.08
6	Idukki	72.38	18.09	90.47
7	Eranakulam	88.46	0.39	88.85
8	Thrissur	46.05	6.64	52.69
9	Palakkad	59.75	14.33	74.08
10	Malappuram	60.26	0	60.26
11	Kozhikkode	61.92	0	61.92
12	Wayanad	57.35	0	57.35
13	Kannur	42.01	32.62	74.63
14	Kasaragod	21.62	17.74	39.36
	<b>State</b>	<b>59.38</b>	<b>4.9</b>	<b>64.28</b>

**A 3.8 Percentage of Hired human labour hours to total human labour hours under Pepper**

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	70.57	0	70.57
2	Kollam	69.09	0	69.09
3	Pathanamthitta	56.51	0	56.51
4	Alappuzha	14.6	0	14.6
5	Kottayam	60.64	0.95	61.59
6	Idukki	61.95	12.1	74.05
7	Eranakulam	69.3	1.81	71.11
8	Thrissur	71.31	10.35	81.66
9	Palakkad	59.97	9.79	69.76
10	Malappuram	55.72	7.3	63.02
11	Kozhikkode	69.94	2.33	72.27
12	Wayanad	54.95	7.25	62.2
13	Kannur	73.53	11.54	85.07
14	Kasaragod	26.93	28.92	55.85
	<b>State</b>	<b>58.61</b>	<b>6.8</b>	<b>65.41</b>

### A 3.9 Percentage of Hired human labour hours to total human labour hours under Ginger

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	50.39	0	50.39
2	Kollam	60.97	0	60.97
3	Pathanamthitta	69.56	0	69.56
4	Alappuzha	17.94	0	17.94
5	Kottayam	32.82	2.34	35.16
6	Idukki	64.54	15.82	80.36
7	Eranakulam	32.66	17.1	49.76
8	Thrissur	35.44	14.14	49.58
9	Palakkad	13.47	65.84	79.31
10	Malappuram	44.13	17.42	61.55
11	Kozhikkode	35.05	30.04	65.09
12	Wayanad	44.31	30.61	74.92
13	Kannur	36.36	27.72	64.08
14	Kasaragod	16.18	20.9	37.08
	<b>State</b>	<b>41.1</b>	<b>22.76</b>	<b>63.86</b>

### A 3.10 Percentage of Hired human labour hours to total human labour hours under Turmeric

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	54.68	0	54.68
2	Kollam	53.81	0	53.81
3	Pathanamthitta	55.7	0.41	56.11
4	Alappuzha	21.06	0	21.06
5	Kottayam	31.54	3.75	35.29
6	Idukki	65.91	21.03	86.94
7	Eranakulam	30.12	18.74	48.86
8	Thrissur	33.79	13.1	46.89
9	Palakkad	21.3	45.41	66.71
10	Malappuram	43.22	4.91	48.13
11	Kozhikkode	23.69	1.17	24.86
12	Wayanad	23.57	7.14	30.71
13	Kannur	39.38	30.84	70.22
14	Kasaragod	24.09	29.52	53.61
	<b>State</b>	<b>39.33</b>	<b>14.92</b>	<b>54.25</b>

<b>A 3.11 Percentage of Hired human labour hours to total human labour hours under Pineapple</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	81.05	0	81.05
2	Kollam	81.9	0	81.9
3	Pathanamthitta	69.48	0	69.48
4	Alappuzha	100	0	100
5	Kottayam	50.28	4.86	55.14
6	Idukki	86.57	11.43	98
7	Eranakulam	64.63	25.11	89.74
8	Thrissur	92.33	3.57	95.9
9	Palakkad	61.2	38.8	100
10	Malappuram	98.66	0	98.66
11	Kozhikkode	32.39	53.86	86.25
12	Wayanad			0
13	Kannur	67.59	30.16	97.75
14	Kasaragod	39.96	44.82	84.78
	<b>State</b>	71.88	13.19	85.06

<b>A 3.12 Percentage of Hired human labour hours to total human labour hours under Bitter Guard Autumn</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	40.42	0	40.42
2	Kollam	51.08	0	51.08
3	Pathanamthitta	59.65	0	59.65
4	Alappuzha	20.05	0	20.05
5	Kottayam	32.14	17.5	49.64
6	Idukki			0
7	Eranakulam	46.22	0	46.22
8	Thrissur	20.18	16.55	36.73
9	Palakkad	22.05	49.7	71.75
10	Malappuram	50.51	1.17	51.68
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	30.12	17.68	47.8
14	Kasaragod			0
	<b>State</b>	35.08	15.87	50.95

<b>A 3.13 Percentage of Hired human labour hours to total human labour hours under Bitter Guard Winter</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	40.81	0	40.81
2	Kollam	46.87	0	46.87
3	Pathanamthitta	46.37	0	46.37
4	Alappuzha	13.48	0	13.48
5	Kottayam	28.56	13.29	41.85
6	Idukki	53.84	11.75	65.59
7	Eranakulam	32.67	9.67	42.34
8	Thrissur	23	11.28	34.28
9	Palakkad	25.79	33.79	59.58
10	Malappuram	40.85	0.57	41.42
11	Kozhikkode	32.84	0	32.84
12	Wayanad	0	0	0
13	Kannur	29.75	27.81	57.56
14	Kasaragod	9.66	16.75	26.41
	<b>State</b>	31.41	10.94	42.36

<b>A 3.14 Percentage of Hired human labour hours to total human labour hours under Bitter Guard Summer</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	40.74	0	40.74
2	Kollam	56.75	0	56.75
3	Pathanamthitta	43.92	0	43.92
4	Alappuzha	14.65	0	14.65
5	Kottayam	22.5	23.81	46.31
6	Idukki			0
7	Eranakulam	30.34	5.31	35.65
8	Thrissur	19.15	13.29	32.44
9	Palakkad	44.29	20.69	64.98
10	Malappuram	29.58	0	29.58
11	Kozhikkode	3.57	0	3.57
12	Wayanad	9.88	0	9.88
13	Kannur	11.03	3.51	14.54
14	Kasaragod	9.24	4.73	13.97
	<b>State</b>	31.03	7.03	38.06

**A 3.15 Percentage of Hired human labour hours to total human labour hours under Cowpea Autumn**

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	52.36	0	52.36
2	Kollam	48.84	0	48.84
3	Pathanamthitta	41.73	0	41.73
4	Alappuzha	43.54	0.4	43.94
5	Kottayam	31.51	12.58	44.09
6	Idukki			0
7	Eranakulam	40.79	0	40.79
8	Thrissur	35.57	9.85	45.42
9	Palakkad	8.04	52.49	60.53
10	Malappuram	38.92	1.75	40.67
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	33.33	28.27	61.6
14	Kasaragod			0
	<b>State</b>	36.75	10.92	47.67

**A 3.16 Percentage of Hired human labour hours to total human labour hours under Cowpea Winter**

Sl No	District	Male	Female	Total
1	Thiruvananthapuram	52.72	0	52.72
2	Kollam	45.82	0	45.82
3	Pathanamthitta	42.87	0	42.87
4	Alappuzha	28.58	5.77	34.35
5	Kottayam	27.12	18.45	45.57
6	Idukki	61.99	6.41	68.4
7	Eranakulam	14.84	5.89	20.73
8	Thrissur	14.25	7.39	21.64
9	Palakkad	6.06	56.66	62.72
10	Malappuram	19.55	0	19.55
11	Kozhikkode	16.77	0	16.77
12	Wayanad	5.83	5.67	11.5
13	Kannur	22.05	46.38	68.43
14	Kasaragod	14.31	13.58	27.89
	<b>State</b>	28.19	13.3	41.49

<b>A 3.17 Percentage of Hired human labour hours to total human labour hours under Cowpea Summer</b>				
SI No	District	Male	Female	Total
1	Thiruvananthapuram	46.92	0	46.92
2	Kollam	52.66	0	52.66
3	Pathanamthitta	22.82	0	22.82
4	Alappuzha	5.55	0.47	6.02
5	Kottayam	25.32	16.05	41.37
6	Idukki	69.16	7.19	76.35
7	Eranakulam	38.31	2.11	40.42
8	Thrissur	23.36	11.53	34.89
9	Palakkad	28.77	11	39.77
10	Malappuram	28.94	0	28.94
11	Kozhikkode	0	0	0
12	Wayanad	12.22	12.33	24.55
13	Kannur	24.52	21.28	45.8
14	Kasaragod	9.54	9.1	18.64
	<b>State</b>	23	6.59	29.59

<b>A 3.18 Percentage of Hired human labour hours to total human labour hours under Cardamom</b>				
SI No	District	Male	Female	Total
1	Idukki	42.16	48.12	90.28
2	Palakkad	13.18	77.2	90.38
3	Wayanad	16.63	48.23	64.86
	<b>State</b>	15.83	65.2	81.03

<b>A 3.19 Percentage of Hired human labour hours to total human labour hours under Ash Guard Autumn</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			0
2	Kollam			0
3	Pathanamthitta	18.23	0	18.23
4	Alappuzha	0	0	0
5	Kottayam	0	0	0
6	Idukki			0
7	Eranakulam			0
8	Thrissur	43.23	5.74	48.97
9	Palakkad	49.53	12.43	61.96
10	Malappuram	61.57	16.71	78.28
11	Kozhikkode	82.56	0	82.56
12	Wayanad			0
13	Kannur	34.1	17.34	51.44
14	Kasaragod			0
	<b>State</b>	46.96	9.63	56.59

<b>A 3.20 Percentage of Hired human labour hours to total human labour hours under Ash Guard Winter</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			0
2	Kollam	11.06	0	11.06
3	Pathanamthitta	17.78	0	17.78
4	Alappuzha	0	0	0
5	Kottayam	48.9	4.4	53.3
6	Idukki			0
7	Eranakulam	0	0	0
8	Thrissur	13.94	5.5	19.44
9	Palakkad	3.94	9.32	13.26
10	Malappuram	37.81	0	37.81
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	31.55	26.45	58
14	Kasaragod	13.66	5.26	18.92
	<b>State</b>	16.23	6.29	22.51

<b>A 3.21 Percentage of Hired human labour hours to total human labour hours under Ash Guard Summer</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			0
2	Kollam	3.96	0	3.96
3	Pathanamthitta	28.4	0	28.4
4	Alappuzha	29.63	0	29.63
5	Kottayam	20	0	20
6	Idukki			0
7	Eranakulam			0
8	Thrissur	24.42	7.47	31.89
9	Palakkad	25.83	1.32	27.15
10	Malappuram	25.98	0	25.98
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	7.74	3.87	11.61
14	Kasaragod	7.28	15.9	23.18
	<b>State</b>	20.17	3.84	24.01

<b>A 3.22 Percentage of Hired human labour hours to total human labour hours under Cucumber Autumn</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			0
2	Kollam			0
3	Pathanamthitta	41.28	0	41.28
4	Alappuzha	0	0	0
5	Kottayam	22.64	0.32	22.96
6	Idukki			0
7	Eranakulam			0
8	Thrissur	9.49	6.81	16.3
9	Palakkad	12.6	0	12.6
10	Malappuram	48.81	0	48.81
11	Kozhikkode	77.97	0	77.97
12	Wayanad			0
13	Kannur	28.75	18.53	47.28
14	Kasaragod			0
	<b>State</b>	34.33	1.93	36.25

<b>A 3.23 Percentage of Hired human labour hours to total human labour hours under Cucumber Winter</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	36.75	0	36.75
2	Kollam	33.09	0	33.09
3	Pathanamthitta	37.03	0	37.03
4	Alappuzha	0	0	0
5	Kottayam	28.34	0	28.34
6	Idukki	0	0	0
7	Eranakulam	91.4	0	91.4
8	Thrissur	10.05	7.66	17.71
9	Palakkad	55.13	15.38	70.51
10	Malappuram	32.49	0	32.49
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	30.76	21.82	52.58
14	Kasaragod	14.81	17.5	32.31
	<b>State</b>	28.73	6.33	35.06

<b>A 3.24 Percentage of Hired human labour hours to total human labour hours under Cucumber Summer</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	31.99	0	31.99
2	Kollam	39.05	0	39.05
3	Pathanamthitta	11.21	0	11.21
4	Alappuzha	11.9	0	11.9
5	Kottayam	15.52	0	15.52
6	Idukki			0
7	Eranakulam	41.42	5.92	47.34
8	Thrissur	20.19	2.7	22.89
9	Palakkad	55.27	11.24	66.51
10	Malappuram	13.12	0	13.12
11	Kozhikkode	1.5	0	1.5
12	Wayanad			0
13	Kannur	22.25	0	22.25
14	Kasaragod	20.59	9.13	29.72
	<b>State</b>	19.97	2.47	22.44

<b>A 3.25 Percentage of Hired human labour hours to total human labour hours under Snake Guard Autumn</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			0
2	Kollam			0
3	Pathanamthitta	41.95	0	41.95
4	Alappuzha	24.49	0	24.49
5	Kottayam	37.23	5.04	42.27
6	Idukki			0
7	Eranakulam			0
8	Thrissur	17.71	3.73	21.44
9	Palakkad	10.47	0.58	11.05
10	Malappuram	27.61	0	27.61
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	22.06	24.26	46.32
14	Kasaragod			0
	<b>State</b>	30.24	3.96	34.2

<b>A 3.26 Percentage of Hired human labour hours to total human labour hours under Snake Guard Winter</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	52.82	0	52.82
2	Kollam	35.87	0	35.87
3	Pathanamthitta	48.4	0	48.4
4	Alappuzha	24.61	0	24.61
5	Kottayam	25.11	6.23	31.34
6	Idukki	69.74	14.52	84.26
7	Eranakulam	39.08	4.74	43.82
8	Thrissur	16.37	1.67	18.04
9	Palakkad	5.17	22.17	27.34
10	Malappuram	26.59	0	26.59
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	26.58	23.28	49.86
14	Kasaragod	0	0	0
	<b>State</b>	34.26	5.12	39.38

<b>A 3.27 Percentage of Hired human labour hours to total human labour hours under Snake Guard Summer</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	42.24	0	42.24
2	Kollam	49.68	0	49.68
3	Pathanamthitta	31.83	0	31.83
4	Alappuzha	12.97	0	12.97
5	Kottayam	33.83	10.39	44.22
6	Idukki	87.72	4.14	91.86
7	Eranakulam	25.88	3.72	29.6
8	Thrissur	17.82	4.51	22.33
9	Palakkad	20.49	2.44	22.93
10	Malappuram	22.02	0	22.02
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	6.45	0	6.45
14	Kasaragod	12.76	0.69	13.45
	<b>State</b>	<b>33.7</b>	<b>3.02</b>	<b>36.73</b>

<b>A 3.28 Percentage of Hired human labour hours to total human labour hours under Ladies Finger Autumn</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram			
2	Kollam			
3	Pathanamthitta	16.87	0	16.87
4	Alappuzha	58.76	0	58.76
5	Kottayam	7.2	0.58	7.78
6	Idukki			
7	Eranakulam			
8	Thrissur	3.95	2.1	6.05
9	Palakkad	10.73	54.11	64.84
10	Malappuram	61.56	0	61.56
11	Kozhikkode	10.04	0	10.04
12	Wayanad	0	17.78	17.78
13	Kannur	23.3	38.83	62.13
14	Kasaragod			
	<b>State</b>	<b>28.21</b>	<b>15.49</b>	<b>43.69</b>

<b>A 3.29 Percentage of Hired human labour hours to total human labour hours under Ladies Finger Winter</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	43.97	0	43.97
2	Kollam	42.33	0	42.33
3	Pathanamthitta	34.76	0	34.76
4	Alappuzha	18.84	0	18.84
5	Kottayam	52.4	1.6	54
6	Idukki			0
7	Eranakulam	18.98	0	18.98
8	Thrissur	14.59	5	19.59
9	Palakkad	5.19	46.18	51.37
10	Malappuram	23.9	0	23.9
11	Kozhikkode	0	0	0
12	Wayanad	0	0	0
13	Kannur	14.55	18.18	32.73
14	Kasaragod	13.07	8.92	21.99
	<b>State</b>	<b>21.35</b>	<b>13.16</b>	<b>34.51</b>

<b>A 3.30 Percentage of Hired human labour hours to total human labour hours under Ladies Finger Summer</b>				
Sl No	District	Male	Female	Total
1	Thiruvananthapuram	49.75	0	49.75
2	Kollam	24.39	0	24.39
3	Pathanamthitta	54.37	0	54.37
4	Alappuzha	18.05	6.28	24.33
5	Kottayam	43.52	0	43.52
6	Idukki			0
7	Eranakulam	14.93	0	14.93
8	Thrissur	23.6	13.78	37.38
9	Palakkad	15.27	42.91	58.18
10	Malappuram	28.29	0	28.29
11	Kozhikkode	0	0	0
12	Wayanad			0
13	Kannur	10.79	4.72	15.51
14	Kasaragod	3.35	1.17	4.52
	<b>State</b>	<b>20.55</b>	<b>4.39</b>	<b>24.94</b>

<b>A 3.31 Percentage of Hired human labour hours to total human labour hours under Cabbage Autumn</b>				
Sl No	District	Male	Female	Total
1	Idukki	72.39	27.61	100
	<b>State</b>	<b>72.39</b>	<b>27.61</b>	<b>100</b>

<b>A 3.32 Percentage of Hired human labour hours to total human labour hours under Cabbage Winter</b>				
Sl No	District	Male	Female	Total
1	Idukki	83.21	16.79	100
	<b>State</b>	<b>83.21</b>	<b>16.79</b>	<b>100</b>

<b>A 3.33 Percentage of Hired human labour hours to total human labour hours under Cabbage Summer</b>				
Sl No	District	Male	Female	Total
1	Idukki	84.8	15.2	100
	<b>State</b>	<b>84.8</b>	<b>15.2</b>	<b>100</b>

<b>A 3.34 Percentage of Hired human labour hours to total human labour hours under Carrot Autumn</b>				
Sl No	District	Male	Female	Total
1	Idukki	68.2	31.8	100
	<b>State</b>	<b>68.2</b>	<b>31.8</b>	<b>100</b>

<b>A 3.35 Percentage of Hired human labour hours to total human labour hours under Carrot Winter</b>				
Sl No	District	Male	Female	Total
1	Idukki	89.86	10.14	100
	<b>State</b>	<b>89.86</b>	<b>10.14</b>	<b>100</b>

<b>A 3.36 Percentage of Hired human labour hours to total human labour hours under Carrot Summer</b>				
Sl No	District	Male	Female	Total
1	Idukki	85.28	14.72	100
	<b>State</b>	<b>85.28</b>	<b>14.72</b>	<b>100</b>

<b>A 3.37 Percentage of Hired human labour hours to total human labour hours under Potato Autumn</b>				
Sl No	District	Male	Female	Total
1	Idukki	69.27	29.49	98.76
	<b>State</b>	<b>69.27</b>	<b>29.49</b>	<b>98.76</b>

<b>A 3.38 Percentage of Hired human labour hours to total human labour hours under Potato Winter</b>				
Sl No	District	Male	Female	Total
1	Idukki	73.28	24.14	97.42
	<b>State</b>	<b>73.28</b>	<b>24.14</b>	<b>97.42</b>

<b>A 3.39 Percentage of Hired human labour hours to total human labour hours under Beans Autumn</b>				
Sl No	District	Male	Female	Total
1	Idukki	64.77	35.23	100
	<b>State</b>	<b>64.77</b>	<b>35.23</b>	<b>100</b>

<b>A 3.40 Percentage of Hired human labour hours to total human labour hours under Beans Winter</b>				
Sl No	District	Male	Female	Total
1	Idukki	61.46	38.54	100
	<b>State</b>	<b>61.46</b>	<b>38.54</b>	<b>100</b>

<b>A 3.41 Percentage of Hired human labour hours to total human labour hours under Beans Summer</b>				
Sl No	District	Male	Female	Total
1	Idukki	47.7	46.03	93.73
	<b>State</b>	<b>47.7</b>	<b>46.03</b>	<b>93.73</b>

<b>A 3.42 Percentage of Hired human labour hours to total human labour hours under Garlic Autumn</b>				
Sl No	District	Male	Female	Total
1	Idukki	60.47	38.74	99.21
	<b>State</b>	<b>60.47</b>	<b>38.74</b>	<b>99.21</b>

<b>A 3.43 Percentage of Hired human labour hours to total human labour hours under Tomato Autumn</b>				
Sl No	District	Male	Female	Total
1	Palakkad	2.88	50.25	53.13
	<b>State</b>	<b>2.88</b>	<b>50.25</b>	<b>53.13</b>

<b>A 3.44 Percentage of Hired human labour hours to total human labour hours under Tomato Winter</b>				
Sl No	District	Male	Female	Total
1	Palakkad	3.42	55.55	58.97
	<b>State</b>	<b>3.42</b>	<b>55.55</b>	<b>58.97</b>

<b>A 3.45 Percentage of Hired human labour hours to total human labour hours under Tomato Summer</b>				
Sl No	District	Male	Female	Total
1	Palakkad	5.04	75.4	80.44
	<b>State</b>	<b>5.04</b>	<b>75.4</b>	<b>80.44</b>

<b>A4.1 District wise Value of product and by-product per hectare (in Rs.) of Autumn Paddy</b>				
Sl No	District	Product	By Product	Total
1	Thiruvananthapuram	121450	40331	161781
2	Kollam	95707	31194	126901
3	Pathanamthitta	108188	21364	129552
4	Alappuzha	116069	1741	117811
5	Kottayam	145848	1689	147537
6	Idukki	70328	3351	73679
7	Eranakulam	97054	9850	106904
8	Thrissur	60379	469	60849
9	Palakkad	146981	7199	154181
10	Malappuram	77342	3513	80855
11	Kozhikkode	56744	10741	67486
12	Wayanad			
13	Kannur	68759	38060	106818
14	Kasaragod	75110	32231	107341
	<b>State</b>	<b>95010</b>	<b>10164</b>	<b>105174</b>

<b>A4.2 District wise Value of product and by-product per hectare (in Rs.) of Winter Paddy</b>				
Sl No	District	Product	By Product	Total
1	Thiruvananthapuram	113081	43414	156495
2	Kollam	105190	31929	137119
3	Pathanamthitta	126657	26579	153236
4	Alappuzha	145173	4045	149218
5	Kottayam	161697	1215	162912
6	Idukki	85374	14960	100334
7	Eranakulam	102447	11099	113547
8	Thrissur	134363	9992	144355
9	Palakkad	138342	25525	163867
10	Malappuram	103045	20860	123905
11	Kozhikkode	54891	14877	69768
12	Wayanad	94608	22590	117197
13	Kannur	79524	39517	119041
14	Kasaragod	89740	38216	127956
	<b>State</b>	<b>124021</b>	<b>18656</b>	<b>142677</b>

<b>A4.3 District wise Value of product and by-product per hectare (in Rs.) of Summer Paddy</b>				
SI No	District	Product	By Product	Total
1	Thiruvananthapuram	107782	44438	152220
2	Kollam	91384	40004	131388
3	Pathanamthitta	133532	19964	153496
4	Alappuzha	145677	4716	150393
5	Kottayam	163143	861	164005
6	Idukki	90235	11952	102186
7	Eranakulam	94596	9987	104583
8	Thrissur	131859	3448	135307
9	Palakkad	129528	16411	145939
10	Malappuram	113019	15787	128806
11	Kozhikkode	65214	15159	80373
12	Wayanad	76076	5168	81244
13	Kannur	75000	28199	103199
14	Kasaragod	77638	31944	109582
	<b>State</b>	<b>133195</b>	<b>11993</b>	<b>145188</b>

<b>A4.4 District wise Value of product and by-product per hectare (in Rs.) of Coconut</b>				
Sl No	District	Product	By Product	Total
1	Thiruvananthapuram	229436	3413	232849
2	Kollam	132117	232	132349
3	Pathanamthitta	130005	2397	132402
4	Alappuzha	156837	1165	158002
5	Kottayam	167301	400	167702
6	Idukki	215492		215492
7	Eranakulam	151638	263	151901
8	Thrissur	117299	2584	119883
9	Palakkad	185434	5863	191297
10	Malappuram	213165	10152	223317
11	Kozhikkode	107430	404	108157
12	Wayanad	138359		138359
13	Kannur	245524	6791	252315
14	Kasaragod	149086	2448	151534
	<b>State</b>	<b>166595</b>	<b>3352</b>	<b>169967</b>

<b>A4.5 District wise Value of product and by-product per hectare (in Rs.) of Arecanut, Tapioca and Banana.</b>				
Sl No	District	Arecanut	Tapioca	Banana
1	Thiruvananthapuram	112349	360345	578054
2	Kollam	102769	239093	428828
3	Pathanamthitta	219643	412827	460746
4	Alappuzha	96069	390526	387644
5	Kottayam	178569	278488	551796
6	Idukki	107655	216350	486162
7	Eranakulam	660029	446924	466669
8	Thrissur	229775	274088	494690
9	Palakkad	337380	428674	538419
10	Malappuram	246326	234528	475945
11	Kozhikkode	259495	331935	538886
12	Wayanad	252208	127189	223996
13	Kannur	304853	404483	671885
14	Kasaragod	765962	280328	666775
	<b>State</b>	<b>345986</b>	<b>328218</b>	<b>497306</b>

<b>A4.6 District wise Value of product and by-product per hectare (in Rs.) of Pepper, Ginger, Turmeric</b>				
Sl No	District	Pepper	Ginger	Turmeric
1	Thiruvananthapuram	304326	882120	432348
2	Kollam	314019	399540	206299
3	Pathanamthitta	215133	321958	210870
4	Alappuzha	209589	423046	245744
5	Kottayam	213602	326789	343163
6	Idukki	183256	368448	258885
7	Eranakulam	176005	518352	425847
8	Thrissur	222664	286289	267747
9	Palakkad	250049	976598	543790
10	Malappuram	202526	262814	183060
11	Kozhikkode	210002	410026	231037
12	Wayanad	100578	348010	261708
13	Kannur	201051	257792	159461
14	Kasaragod	221944	494796	391066
	<b>State</b>	<b>207707</b>	<b>498727</b>	<b>287974</b>

<b>A4.8 District wise Value of product and by-product per hectare Bitter gourd (Autumn, Winter and Summer)</b>				
Sl No	District	Bitter gourd (Autumn)	Bitter gourd (Winter)	Bitter gourd (Summer)
1	Thiruvananthapuram	533648	535009	535823
2	Kollam	452187	476699	389504
3	Pathanamthitta	418402	361812	360290
4	Alappuzha	558924	415187	580806
5	Kottayam	395695	374001	423277
6	Idukki		222316	
7	Eranakulam	242101	281369	283667
8	Thrissur	240506	347870	250719
9	Palakkad	474771	353836	159680
10	Malappuram	151935	209199	210555
11	Kozhikkode	587243	251860	231882
12	Wayanad		212420	31757
13	Kannur	260135	326895	428723
14	Kasaragod		386016	424151
	<b>State</b>	<b>395636</b>	<b>359384</b>	<b>332599</b>

<b>A4.9 District wise Value of product and by-product per hectare Cowpea</b>				
<b>(Autumn, Winter and Summer)</b>				
SI No	District	Cowpea (Autumn)	Cowpea (Winter)	Cowpea (Summer)
1	Thiruvananthapuram	502066	485881	479716
2	Kollam	435106	445101	367212
3	Pathanamthitta	443129	364029	401921
4	Alappuzha	547246	495685	312828
5	Kottayam	328189	337035	344189
6	Idukki		280554	216600
7	Ernakulam	287421	291427	296040
8	Thrissur	239827	349735	284305
9	Palakkad	380911	465287	123413
10	Malappuram	126935	182873	171964
11	Kozhikkode	287385	207615	225240
12	Wayanad		420062	320534
13	Kannur	342148	274394	394647
14	Kasaragod		308258	364230
	<b>State</b>	<b>352608</b>	<b>375048</b>	<b>326175</b>

**A4.10 District wise Value of product and by-product per hectare of Cardamom**

Sl No	District	Cardamom
1	Idukki	661096
2	Palakkad	534138
3	Wayanad	548103
	<b>State</b>	<b>547428</b>

**A4.11 District wise Value of product and by-product per hectare Ash gourd (Autumn, Winter and Summer)**

Sl No	District	Ash gourd (Autumn)	Ash gourd (Winter)	Ash gourd (Summer)
1	Thiruvananthapuram			
2	Kollam		341107	414286
3	Pathanamthitta	201528	206830	271715
4	Alappuzha	62424	71036	161491
5	Kottayam	92625	133380	167960
6	Idukki			
7	Eranakulam		179322	
8	Thrissur	156796	298134	152016
9	Palakkad	262350	380488	110533
10	Malappuram	47053	141613	78824
11	Kozhikkode	405492	209950	336672
12	Wayanad			
13	Kannur	251068	258445	252641
14	Kasaragod		260049	263824
	<b>State</b>	<b>186046</b>	<b>258758</b>	<b>170956</b>

<b>A4.12 District wise Value of product and by-product per hectare Cucumber (Autumn, Winter and Summer)</b>				
SI No	District	Cucumber (Autumn)	Cucumber (Winter)	Cucumber (Summer)
1	Thiruvananthapuram		300332	421791
2	Kollam		307846	299144
3	Pathanamthitta	106539	147233	200652
4	Alappuzha	306262	272810	224653
5	Kottayam	125079	126459	119605
6	Idukki		74100	
7	Eranakulam		179734	211514
8	Thrissur	167709	137002	138982
9	Palakkad	191000	154249	131430
10	Malappuram	78165	137024	161940
11	Kozhikkode	281580	45166	298870
12	Wayanad			
13	Kannur	192969	218697	271379
14	Kasaragod		194488	226457
	<b>State</b>	<b>145425</b>	<b>187145</b>	<b>218802</b>

<b>A4.13 District wise Value of product and by-product per hectare Snake gourd (Autumn, Winter and Summer)</b>				
SI No	District	Snake gourd (Autumn)	Snake gourd (Winter)	Snake gourd (Summer)
1	Thiruvananthapuram		373080	445045
2	Kollam		561999	453704
3	Pathanamthitta	348415	461867	461008
4	Alappuzha	630990	498810	387383
5	Kottayam	255771	266278	298261
6	Idukki		301316	172640
7	Eranakulam		240540	129465
8	Thrissur	189550	166968	175402
9	Palakkad	221597	330643	116433
10	Malappuram	361410	194544	206681
11	Kozhikkode	395447	254276	249896
12	Wayanad			
13	Kannur	307178	452692	687278
14	Kasaragod		380843	347897
	<b>State</b>	<b>259779</b>	<b>341542</b>	<b>320393</b>

<b>A4.14 District wise Value of product and by-product per hectare Ladies Finger (Autumn, Winter and Summer)</b>				
Sl No	District	Ladies Finger (Autumn)	Ladies Finger (Winter)	Ladies Finger (Summer)
1	Thiruvananthapuram		1226437	1351996
2	Kollam		276676	319200
3	Pathanamthitta	334149	218170	223006
4	Alappuzha	678262	617557	569070
5	Kottayam	172192	203785	175835
6	Idukki			
7	Eranakulam		184106	170430
8	Thrissur	150248	146903	152029
9	Palakkad	225074	223533	174331
10	Malappuram	143519	198261	151326
11	Kozhikkode	221260	286238	337971
12	Wayanad	51870	177840	
13	Kannur	411667	312455	467173
14	Kasaragod		227726	269858
	<b>State</b>	<b>196515</b>	<b>289947</b>	<b>328133</b>

**A4.15 District wise Value of product and by-product per hectare Carrot (Autumn, Winter and Summer)**

Sl No	District	Carrot (Autumn)	Carrot (Winter)	Carrot (Summer)
1	Idukki	309061	282094	341001
	<b>State</b>	<b>309061</b>	<b>282094</b>	<b>341001</b>

**A4.15 District wise Value of product and by-product per hectare Cabbage (Autumn, Winter and Summer)**

Sl No	District	Cabbage(Autumn)	Cabbage(Winter)	Cabbage (Summer)
1	Idukki	267023	280177	353918
	<b>State</b>	<b>267023</b>	<b>280177</b>	<b>353918</b>

**A4.17 District wise Value of product and by-product per hectare Potato (Autumn, Winter)**

Sl No	District	Potato (Autumn)	Potato(Winter)
1	Idukki	261894	264771
	<b>State</b>	<b>261894</b>	<b>264771</b>

**A4.18 District wise Value of product and by-product per hectare Beans (Autumn, Winter and Summer)**

Sl No	District	Beans (Autumn)	Beans(Winter)	Beans(Summer)
1	Idukki	264260	249989	286487
	<b>State</b>	<b>264260</b>	<b>249989</b>	<b>286487</b>

**A4.19 District wise Value of product and by-product per hectare Garlic (Autumn, Winter and Summer)**

Sl No	District	Garlic (Autumn)
1	Idukki	537372
	<b>State</b>	<b>537372</b>

**A4.20 District wise Value of product and by-product per hectare Tomato(Autumn, Winter and Summer)**

Sl No	District	Tomato (Autumn)	Tomato (Winter)	Tomato (Summer)
1	Palakkad	258949	254837	97636
	<b>State</b>	<b>258949</b>	<b>254837</b>	<b>97636</b>



Department of Economics & Statistics  
Thiruvananthapuram, Kerala

Website: [www.ecostat.kerala.gov.in](http://www.ecostat.kerala.gov.in), Email: [www.ecostatdir@gmail.com](mailto:www.ecostatdir@gmail.com)