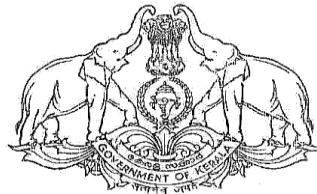




Government of Kerala

REPORT ON COST OF CULTIVATION OF IMPORTANT CROPS IN KERALA 2019-20



Government of Kerala

Report On Cost of Cultivation of Important Crops in Kerala 2019-20

Department of Economics & Statistics
KERALA
2022

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 2019-20. The crops covered under this study are Paddy (autumn, winter and summer), Coconut, Areca nut, 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.
25/03/2022



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Chapter I

GENERAL

Introduction

Annual Survey of Cost of Cultivation of important crops in the State commencing from 1980-81 onwards vide G.O. (Rt) 466/79/plg dated 27/10/1979 .The present report relates to the 40th round of survey conducted during the agricultural year 2019-20.

The crops covered under the round are given below:-

| | |
|-----|--------------------------------|
| 1. | <i>Paddy (3 seasons)</i> |
| 2. | <i>Coconut</i> |
| 3. | <i>Arecanut</i> |
| 4. | <i>Tapioca</i> |
| 5. | <i>Banana</i> |
| 6. | <i>Pepper</i> |
| 7. | <i>Ginger</i> |
| 8. | <i>Turmeric</i> |
| 9. | <i>Pineapple</i> |
| 10. | <i>Bitter gourd(3 seasons)</i> |
| 11. | <i>Cowpea (3 Seasons)</i> |
| 12. | <i>Cardamom</i> |

Objectives

The main objective of 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) 2019-20

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 | <i>Coconut, Arecanut</i> | 4 |
| 2 | <i>Paddy, Tapioca, Banana, Pepper, Ginger, Turmeric Pineapple, Cardamom.</i> | 3 |
| 3 | <i>Cowpea, Bittergourd</i> | 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 with in 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) |

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 Bittergourd. 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

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

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

| <i>Sl. No</i> | <i>Name of crop</i> | <i>Periodicity</i> |
|---------------|--|--------------------|
| 1 | <i>Cowpea, Bittergourd</i> | <i>Fortnight</i> |
| 2 | <i>Paddy</i> | <i>Three weeks</i> |
| 3 | <i>Cardamom</i> | <i>One month</i> |
| 4 | <i>Coconut, Areca nut, Pepper, Tapioca, Banana, Ginger, Turmeric, Pineapple.</i> | <i>Two months</i> |

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 Thaluk 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 Landvalue, 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 | <i>Family labour</i> | <i>Imputed on the basis of average wage rate per work hour of hired labour.</i> |
| II | <i>Owned and Exchange human labour</i> | <i>The rate of wages per hour for hired human labour is taken for imputing the value of own stock and exchange human labour</i> |
| III | <i>Owned and Exchange animal labour</i> | <i>The charges paid per hour for hired animal labour is taken for imputing the value of owned and exchange animal labour.</i> |
| IV | <i>Owned and Exchange machine labour</i> | <i>The hire charges per hour for machine labour has been taken</i> |
| V | <i> Implements</i> | <i>Repair and maintenance charges of implements</i> |
| VI | <i>Owned seed</i> | <i>Farm produced (house grown) seed has been imputed at the prices prevalent in the investigator zone concerned at the time of sowing</i> |
| VII | <i>Farm produced manure</i> | <i>Imputed at the rate prevalent in the zone concerned.</i> |
| VIII | <i>Interest on fixed capital</i> | <i>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.</i> |

- IX Interest on working capital* *Interest has been charged at the rate of 10% per annum on the working capital, cash and kind 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>I Repair and maintenance charges of implements</i> | <i>In proportion to the area under the crop</i> |
| <i>II Interest on fixed capital (excluding land)</i> | <i>In proportion to the area under the crop</i> |
| <i>III Interest on land value</i> | <i>Interest on the Fair value of land under the crop</i> |

(d) Procedure for valuation of farm assets

I Own farm buildings (cattle sheds, storage shed prices prevailing in the locality
etc)

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 into account. The land value is estimated at the fair value rate of agricultural land

CHAPTER 2

RESULTS OF THE SURVEY

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, Areca nut, 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 2019-20

For this study details of holding selected and area coverage are given below. The data collected from 447 holdings according to the size class by covering 390.97 hectares of land. It is observed that the average area per holding is 0.87 hectares in all classes while area per holding in large size class, ie more than two hectares 3.64 hectares. But in small size class, ie, less than 0.40 hectare which comprises 228 holdings, the average area per holding is only 0.20 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 | 228 | 45.40 | 11.64 | 0.20 |
| Medium | 158 | 122.36 | 31.38 | 0.77 |
| Large | 61 | 222.21 | 56.98 | 3.64 |
| Total | 447 | 390.97 | 100 | 0.87 |

Cost of cultivation

Under the Cost A ie; paid out cost actually incurred by the cultivators 40.66% of cost incurred against hired human labour is the highest. Machine labour cost shares 12..23% and farmyard manure and chemical fertilizers accounts to 11.21% respectively. In holdings size class less than 0.40 hectare, cost under hired human labour is more, ie, 51.27% against total cost under Cost A while in size class above two hectares, the cost percentage under hired human labour is coming down to 46.14%. Similarly per hectare cost difference between large and small size class is Rs16262/-.

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

| Sl No | | Holding size Class | | | |
|-----------|--|--------------------|---------------|---------------|---------------|
| | | Small | Medium | Large | All Size |
| 1 | Hired human labour | 40945 | 31436 | 22694 | 27536 |
| 2 | Animal labour | 88 | 7 | | 12 |
| 3 | Machine labour | 8828 | 8795 | 7839 | 8280 |
| 4 | Seed / seedlings | 2975 | 3383 | 2895 | 3818 |
| 5 | Farmyard manure and chemical fertilizers | 9572 | 7452 | 7258 | 7591 |
| 6 | Plant protection | 896 | 1815 | 3199 | 2493 |
| 7 | Land tax and irrigation cess | 227 | 253 | 182 | 210 |
| 8 | Repair and maintenance charges of implements, machinery and building | 678 | 283 | 18 | 179 |
| 9 | Interest on working capital | 6330 | 5289 | 4388 | 4973 |
| 10 | Other expenses | 9321 | 9414 | 15125 | 12630 |
| 11 | Total cost 'A' (1-10) | 79860 | 68127 | 63598 | 67722 |
| 12 | Interest on fixed capital | 2048 | 1272 | 1775 | 1648 |
| 13 | Cost 'B1' (11+12) | 81908 | 69399 | 65373 | 69370 |
| 14 | Interest on land value | 194943 | 177727 | 139554 | 158043 |
| 15 | Cost 'B' (13+14) | 276851 | 247126 | 204927 | 227413 |
| 16 | Imputed value of household labour | 17315 | 8822 | 2769 | 6377 |
| 17 | Cost 'C' (15+16) | 294166 | 255948 | 207696 | 233790 |

Percentage Distribution of “COST A” per hectare of Autumn Paddy during 2019-20

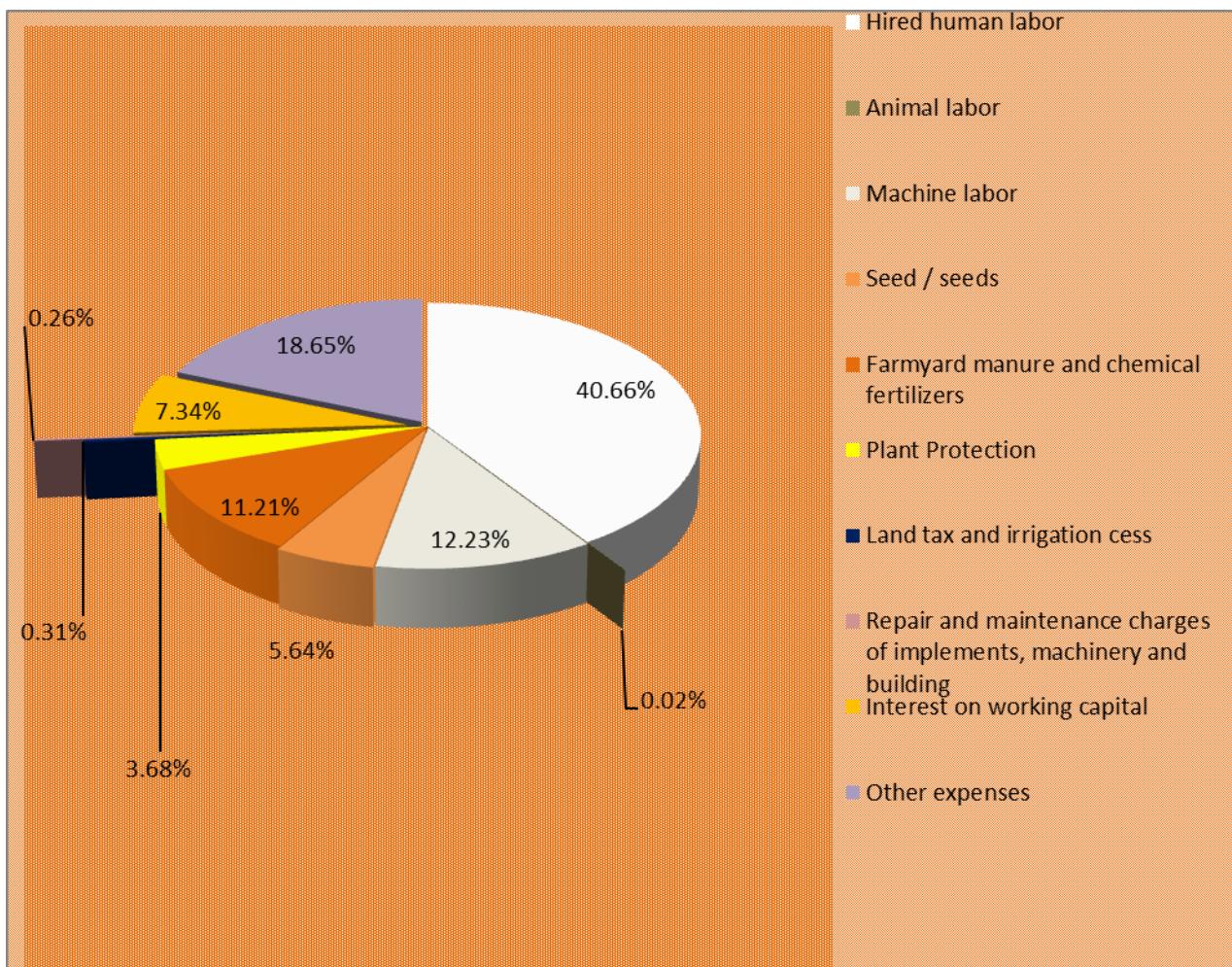


Table 3: Percentage of hired human labour hours to total human labour hours

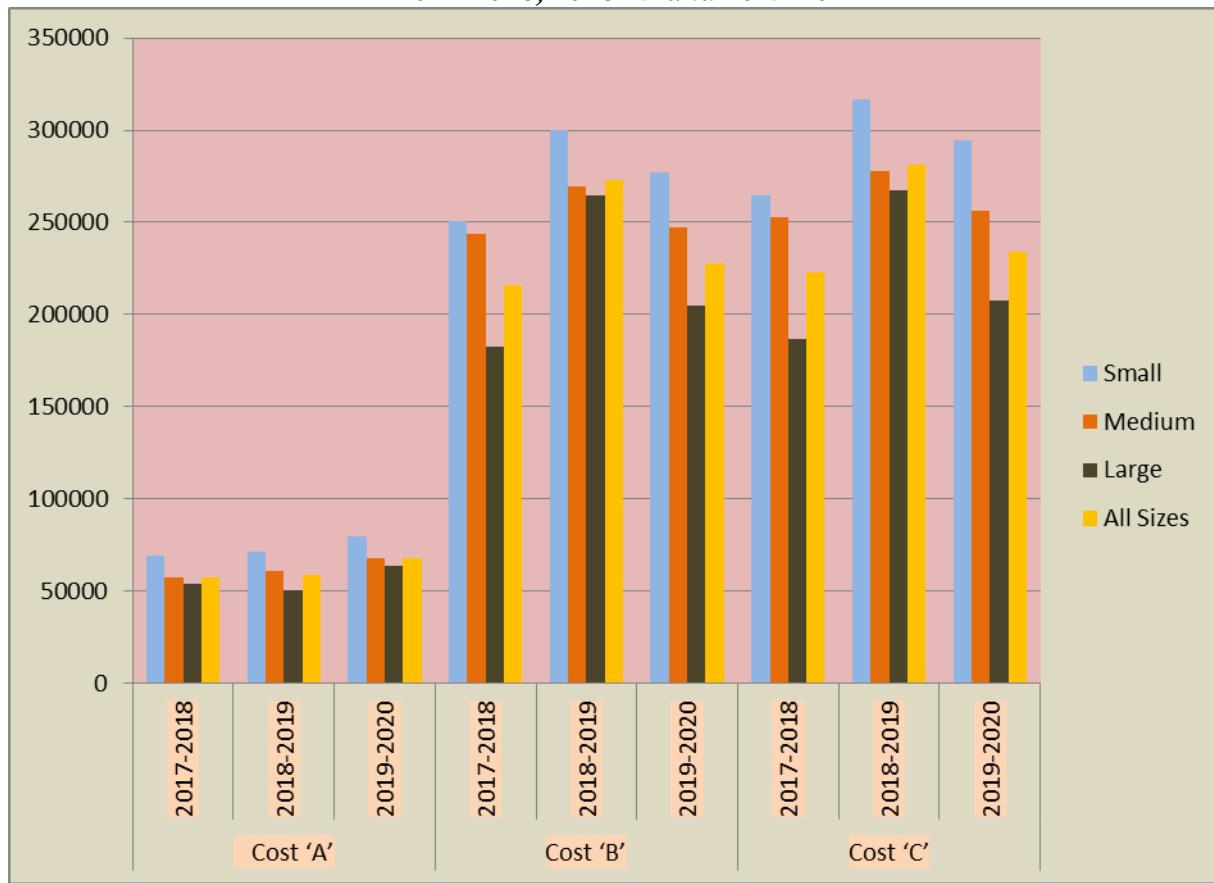
| Sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 27.23 | 34.58 | 46.71 | 38.35 |
| Female | 37.45 | 40.45 | 44.63 | 43.58 |
| Total | 64.68 | 75.03 | 91.34 | 81.93 |

If we consider total labour hours, 81.93% labour hours shares by the hired labour. Out of the hired labour hours, 43.58% of labour hours shares to female participation and 38.35% labour hours shares to male participation.

Table 4: Cost of cultivation of Autumn Paddy per hectare (in Rs.) during 2017-18, 2018-19 and 2019-2020

| Concept of cost | Year | Holding size class | | | |
|-----------------|-----------|--------------------|--------|--------|-----------|
| | | Small | Medium | Large | All Sizes |
| Cost 'A' | 2017-2018 | 69260 | 57327 | 53886 | 57369 |
| | 2018-2019 | 71026 | 60539 | 50452 | 58545 |
| | 2019-2020 | 79860 | 68127 | 63598 | 67722 |
| Cost 'B' | 2017-2018 | 250470 | 243772 | 182836 | 215638 |
| | 2018-2019 | 300016 | 269106 | 264888 | 273141 |
| | 2019-2020 | 276851 | 247126 | 204927 | 227413 |
| Cost 'C' | 2017-2018 | 264872 | 252470 | 186811 | 222887 |
| | 2018-2019 | 316953 | 277939 | 267534 | 281057 |
| | 2019-2020 | 294166 | 255948 | 207696 | 233790 |

Cost of cultivation of Autumn Paddy per hectare (in Rs.) - during 2017-2018, 2018-19 and 2019-20



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 2019-20 is increased by Rs 9177 as compared to cost in 2018-19.

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 2019-20 for producing one quintal of paddy Rs.1906/- 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 2017-18, 2018-19 and 2019-20

| Concept of cost | Year | Holding size class | | | |
|-----------------|-----------|--------------------|--------|-------|-----------|
| | | Small | Medium | Large | All Sizes |
| Cost ‘A’ | 2017-2018 | 2244 | 1866 | 1762 | 1866 |
| | 2018-2019 | 1084 | 1559 | 2384 | 1588 |
| | 2019-2020 | 2223 | 1911 | 1795 | 1906 |
| Cost ‘B’ | 2017-2018 | 7898 | 7544 | 5498 | 6586 |
| | 2018-2019 | 4580 | 6931 | 12517 | 7410 |
| | 2019-2020 | 7742 | 6933 | 5785 | 6400 |
| Cost ‘C’ | 2017-2018 | 8347 | 7808 | 5613 | 6802 |
| | 2018-2019 | 4838 | 7158 | 12642 | 7624 |
| | 2019-2020 | 8226 | 7180 | 5863 | 6224 |

Value of out put

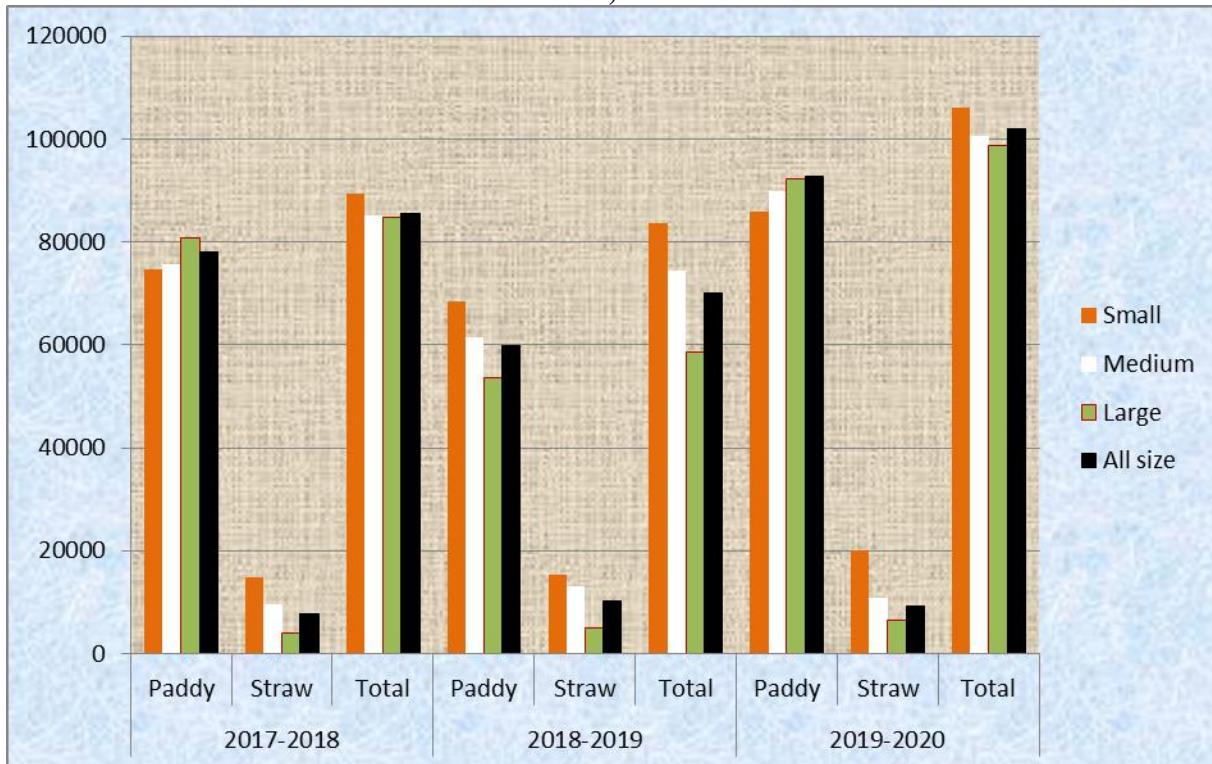
Details of product and by-product per hectare in Autumn Paddy during the last three years are given below.

Table 6: Value of product and by-product per hectare (in Rs.) of Autumn Paddy during 2017-18, 2018-19and 2019-20

| Year | Product/ By product | Holding size class | | | |
|-----------|------------------------|--------------------|--------|-------|----------|
| | | Small | Medium | Large | All size |
| 2017-2018 | Paddy | 74676 | 75591 | 80860 | 77976 |
| | Straw | 14800 | 9607 | 3896 | 7614 |
| | Total | 89476 | 85198 | 84756 | 85591 |
| 2018-2019 | Paddy | 68468 | 61478 | 53682 | 59732 |
| | Straw | 15259 | 13023 | 5006 | 10319 |
| | Total | 83727 | 74501 | 58688 | 70051 |
| 2019-2020 | Paddy | 85939 | 89923 | 92270 | 92662 |
| | Straw | 20152 | 10724 | 6365 | 9316 |
| | Total | 106091 | 100647 | 98635 | 101978 |

Per hectare value of product and by product in Autumn season shows an increasing trend during 2019-20 when compared to last year. The value of product is increased from Rs 59732 to Rs 92662 where as the value of straw is decreased.

VALUE OF PRODUCT AND BY PRODUCT PER HECTARE OF AUTUMN PADDY DURING 2017-2018, 2018-2019&2019-20



2.1.2 Paddy-Winter (Mundakan) during 2019-20

During 2019-20 cost of cultivation study on winter paddy was conducted in 524 holdings according the size class by covering 531.06 hectare of land. The average area per holding during the season under study is 1.01 hectare. In winter season area per holding in large size class is 4.53 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 | 235 | 53.57 | 10.09 | 0.23 |
| Medium | 224 | 183.13 | 34.48 | 0.82 |
| Large | 65 | 294.36 | 55.43 | 4.53 |
| Total | 524 | 531.06 | 100 | 1.01 |

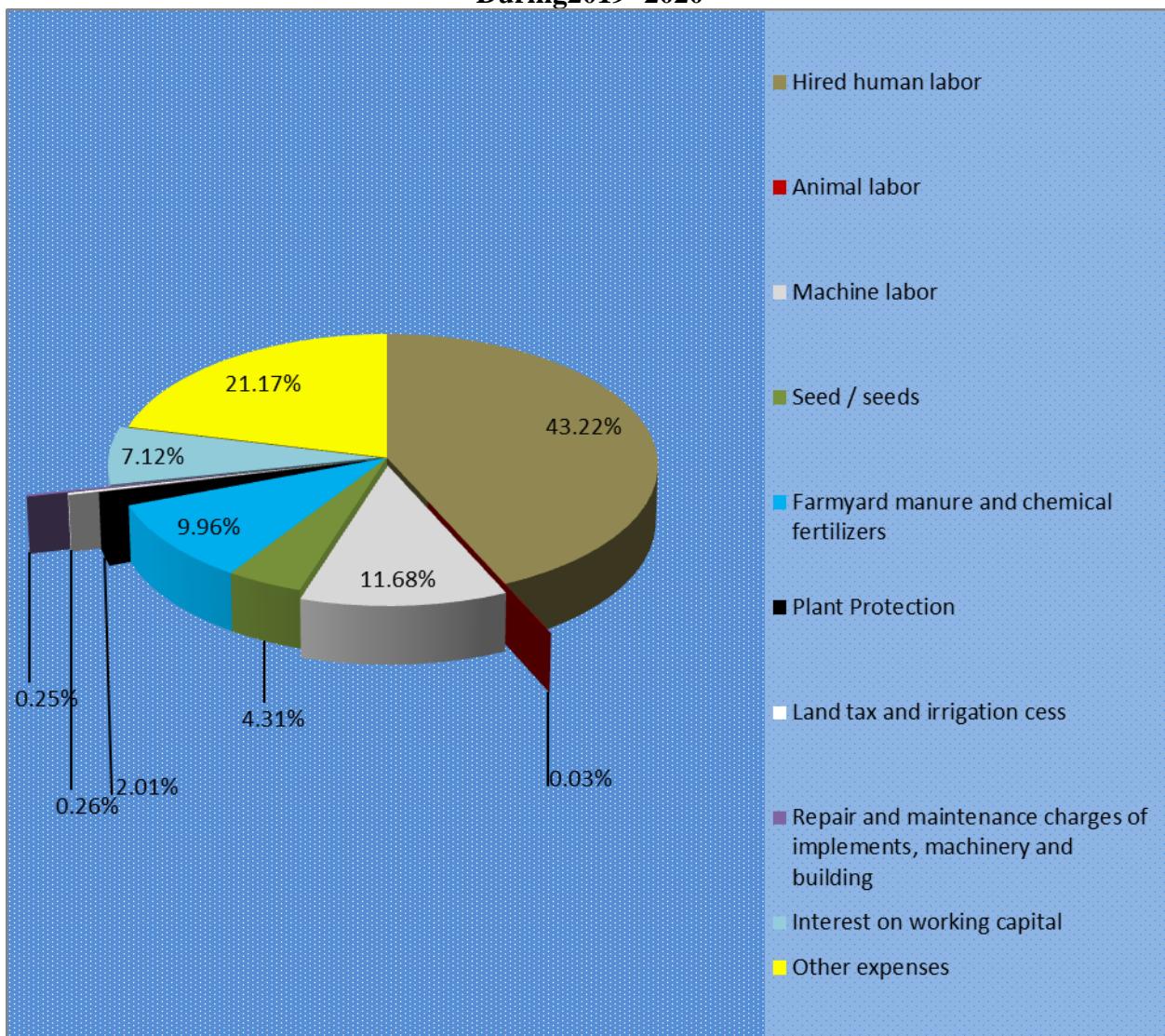
Cost of Cultivation

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 43.22% per cent. Another two major contributing factor in cost are machine labour and other expences which constitutes 11.68% and 21.17% respectively. Farmyard manure and chemical fertilizers accounts were 9.96%. 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.74401/- Considerable variation in hired human labour component is reported in winter season during 2019-20 when small and large size classes are compared. Cost difference in human hired labour between small and large size class is Rs11493/-.

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 | 42040 | 31857 | 30547 | 32158 |
| 2 | Animal labour | | 66 | | 23 |
| 3 | Machine labour | 9129 | 9168 | 8306 | 8687 |
| 4 | Seed / seedlings | 2991 | 3508 | 3055 | 3205 |
| 5 | Farmyard manure and chemical fertilizers | 9708 | 7930 | 6669 | 7411 |
| 6 | Plant protection | 1037 | 1574 | 1523 | 1492 |
| 7 | Land tax and irrigation Cess | 240 | 212 | 169 | 191 |
| 8 | Repair and maintenance charges of implements, machinery and building | 840 | 185 | 67 | 186 |
| 9 | Interest on working capital | 6491 | 5410 | 5010 | 5297 |
| 10 | Other expenses | 10330 | 11524 | 19366 | 15751 |
| 11 | Total Cost 'A' (1-10) | 82806 | 71434 | 74712 | 74401 |
| 12 | Interest on fixed capital | 4922 | 1929 | 2116 | 2335 |
| 13 | Cost 'B1' (11+12) | 87728 | 73363 | 76828 | 76736 |
| 14 | Interest on land value | 181697 | 183066 | 149432 | 164285 |
| 15 | Cost 'B' (13+14) | 269425 | 256429 | 226260 | 241021 |
| 16 | Imputed value of household labour | 18183 | 10194 | 4141 | 7645 |
| 17 | Cost 'C' (15+16) | 287608 | 266623 | 230401 | 248666 |

**Percentage Distribution of “COST A” per hectare of WinterPaddy
During 2019- 2020**



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

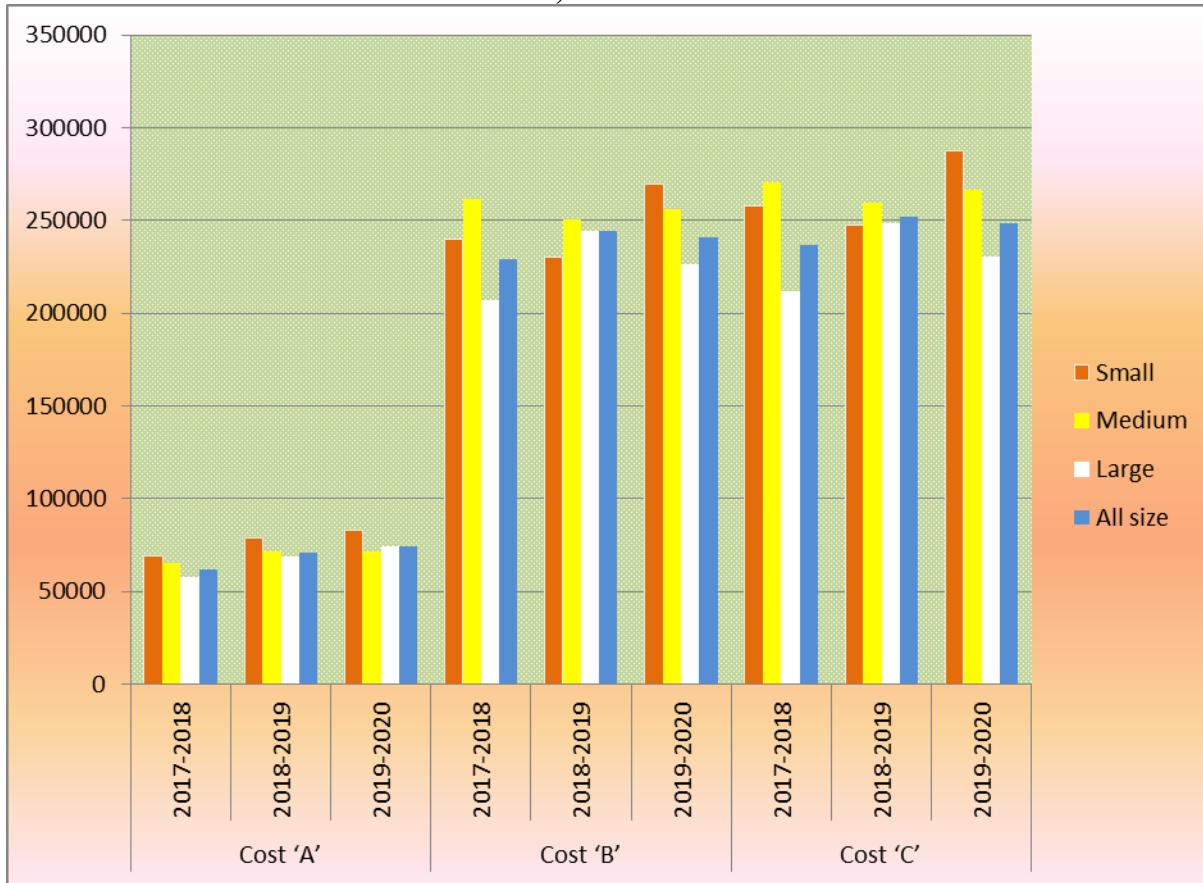
| Sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 27.57 | 29.24 | 53.62 | 40.24 |
| Female | 36.23 | 36.97 | 42.8 | 38.31 |
| Total | 63.8 | 66.21 | 96.42 | 78.55 |

Table 10: Cost of cultivation of Winter Paddy per hectare (in Rs) during, 2017-2018, 2018-2019and 2019-2020

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 68931 | 65436 | 58108 | 61663 |
| | 2018-2019 | 78595 | 71568 | 68523 | 70626 |
| | 2019-2020 | 82806 | 71434 | 74712 | 74401 |
| Cost 'B' | 2017-2018 | 239922 | 261675 | 207200 | 228859 |
| | 2018-2019 | 229950 | 250330 | 244144 | 244575 |
| | 2019-2020 | 269425 | 256429 | 226260 | 241021 |
| Cost 'C' | 2017-2018 | 257979 | 270704 | 211905 | 236449 |
| | 2018-2019 | 247661 | 259718 | 248473 | 252027 |
| | 2019-2020 | 287608 | 266623 | 230401 | 248666 |

The result of the survey shows an increase of 5.34 percentage of cost during 2019-20 from the year 2018-19. Also the bottom size class (small) the cost increased by 5.35 percentage during the same period.

COST OF CULTIVATION PER HECTARE OF WINTER PADDY DURING 2017-18, 2018-19& 2019-20



Cost of production of Winter Paddy

Table 11: Per Quintal Cost (in Rs.) of production of Winter Paddy during 2017-18, 2018-19& 2019-20

| Concept of cost | Year | Holding size class | | | |
|-----------------|-----------|--------------------|--------|-------|-----------|
| | | Small | Medium | Large | All Sizes |
| Cost 'A' | 2017-2018 | 1214 | 1250 | 1527 | 1382 |
| | 2018-2019 | 2031 | 1745 | 1436 | 1585 |
| | 2019-2020 | 1029 | 1778 | 1846 | 1675 |
| Cost 'B' | 2017-2018 | 4100 | 4779 | 4898 | 4751 |
| | 2018-2019 | 5942 | 6105 | 5115 | 5490 |
| | 2019-2020 | 3349 | 6382 | 5590 | 5428 |
| Cost 'C' | 2017-2018 | 4404 | 4941 | 5004 | 4904 |
| | 2018-2019 | 6400 | 6334 | 5205 | 5657 |
| | 2019-2020 | 3575 | 6636 | 5693 | 5600 |

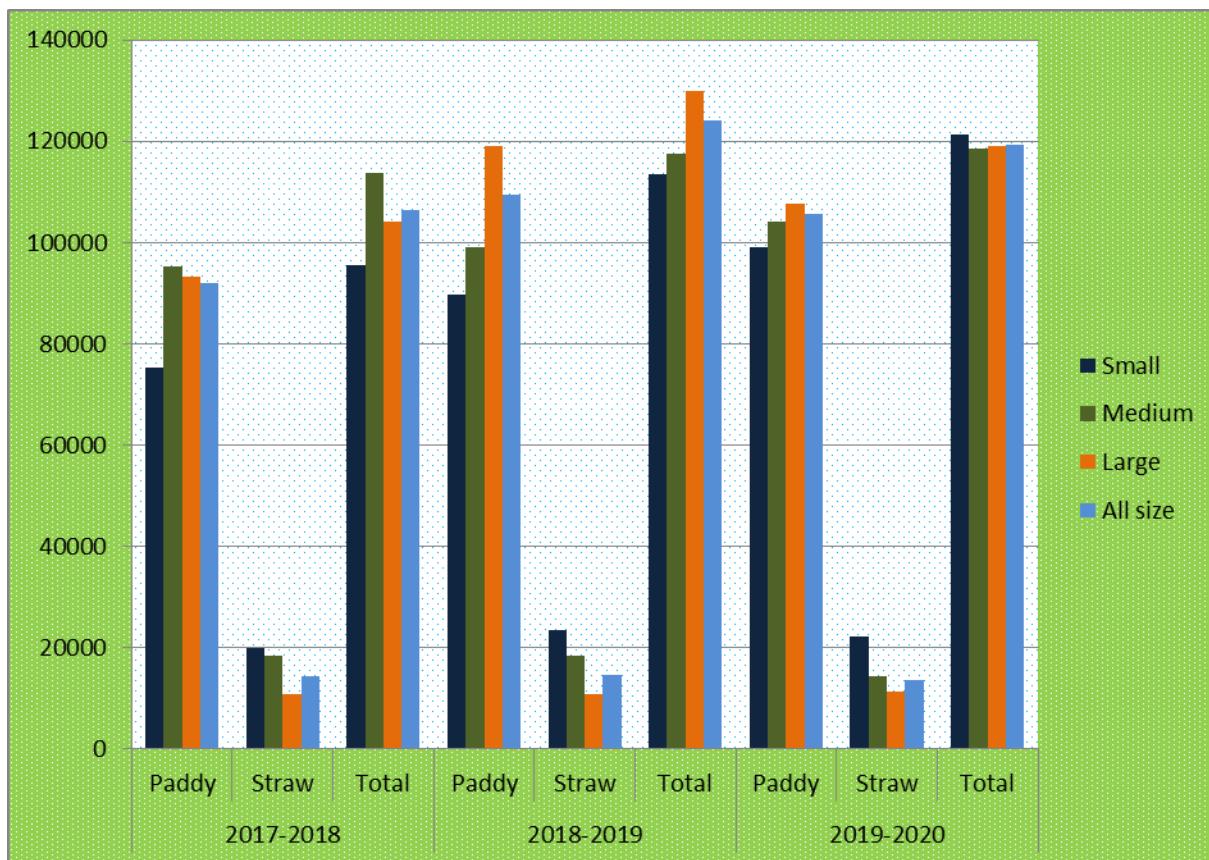
Value of Output

Table 12: Value of Product and By product per hectare (in Rs) of Winter Paddy during 2017-18, 2018-19 and 2019-20

| Year | Product/ By product | Holding size class | | | |
|-----------|------------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| 2017-2018 | Paddy | 75404 | 95353 | 93349 | 91975 |
| | Straw | 20065 | 18401 | 10811 | 14356 |
| | Total | 95469 | 113754 | 104160 | 106331 |
| 2018-2019 | Paddy | 89851 | 99122 | 119084 | 109374 |
| | Straw | 23589 | 18359 | 10874 | 14709 |
| | Total | 113440 | 117481 | 129958 | 124083 |
| 2019-2020 | Paddy | 99042 | 104241 | 107680 | 105623 |
| | Straw | 22301 | 14373 | 11470 | 13563 |
| | Total | 121343 | 118614 | 119150 | 119186 |

Compared to autumn 2019-20 value of product and by product per hectre increased marginally during winter season.Similarly per hectare value of product and by product decreased by 3.94 percentage in 2019-20 winter season against the value of 2018-19 in the same season.

Value of Product and By product per hectare (in Rs) of Winter Paddy during 2017-18, 2018-19 and 2019-20



2.1.3 Paddy - Summer (Puncha) during 2019-20

For the cost of cultivation study on summer paddy during 2019-20 the total number of holdings selected was 458. Number of holdings selected in large holding size is 72. 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 | 196 | 43.42 | 8.41 | 0.22 |
| Medium | 190 | 167.77 | 32.50 | 0.88 |
| Large | 72 | 304.96 | 59.08 | 4.24 |
| Total | 458 | 516.15 | 100 | 1.13 |

The above table reveals that the total area under cultivation in the selected sample holdings covers to 516.15 hectares and the average size of a holding is 1.13 hectare. In the large size class the average area per holding is 4.24 hectare where as in small size class area per holding is 0.22 hectare only.

Cost of Cultivation

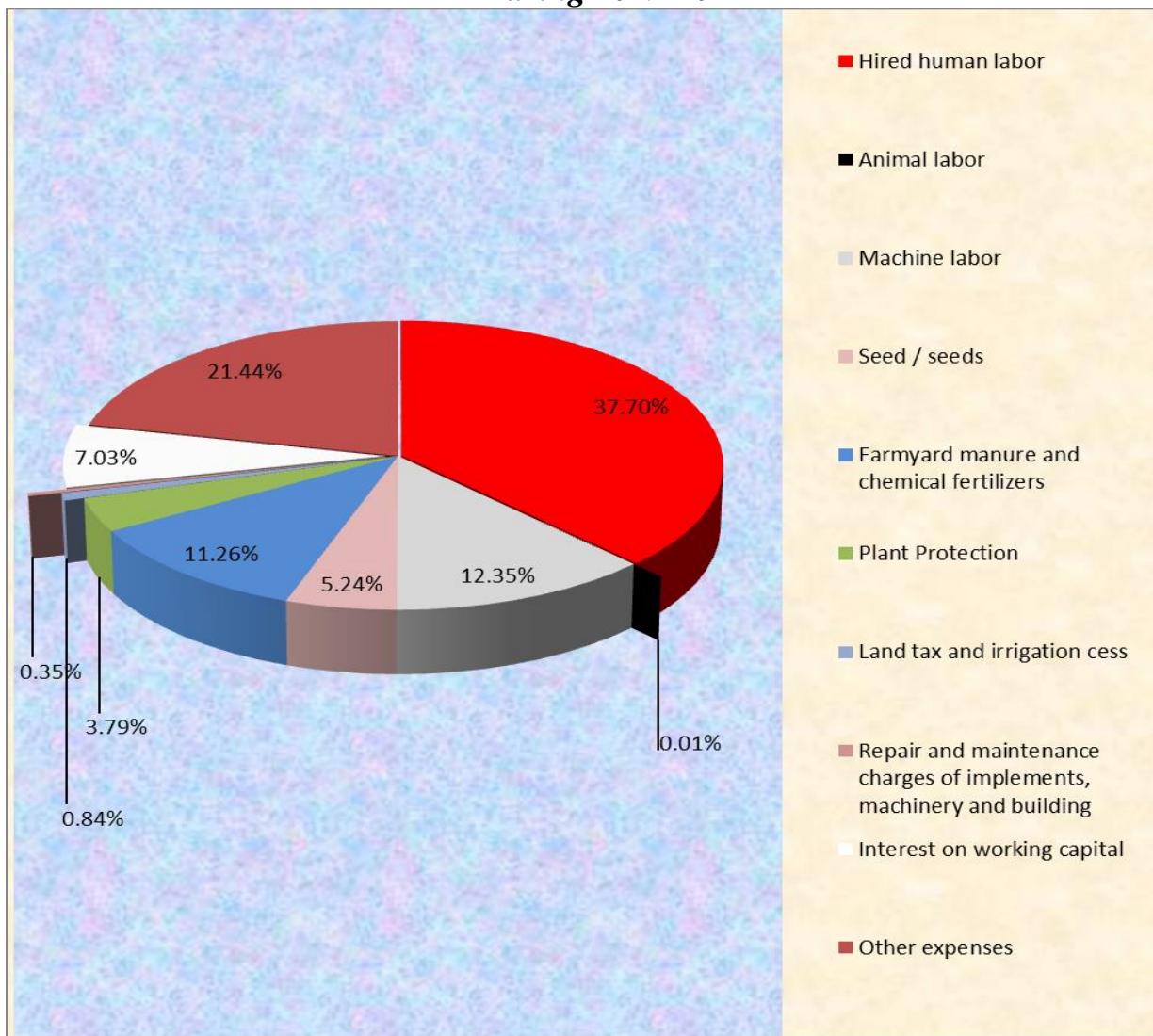
Cost of cultivation of summer paddy per hectare is estimated as Rs.68703/- when cost ‘A’ is considered. Component wise holding size class details are presented below:

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 | 42159 | 28099 | 22380 | 25903 |
| 2 | Animal labour | 58 | | | 5 |
| 3 | Machine labour | 10102 | 8437 | 8280 | 8484 |
| 4 | Seed / seedlings | 4673 | 3519 | 3491 | 3600 |
| 5 | Farmyard manure and chemical fertilizers | 9260 | 8056 | 7341 | 7735 |
| 6 | Plant protection | 1119 | 1808 | 3250 | 2602 |
| 7 | Land tax and irrigation Cess | 587 | 503 | 611 | 574 |
| 8 | Repair and maintenance charges of implements, machinery and building | 726 | 395 | 82 | 238 |
| 9 | Interest on working capital | 6737 | 4992 | 4474 | 4833 |
| 10 | Other expenses | 10183 | 12084 | 16831 | 14729 |
| 11 | Total Cost ‘A’ (1-10) | 85604 | 67893 | 66740 | 68703 |
| 12 | Interest on fixed capital | 3579 | 2444 | 1431 | 1941 |
| 13 | Cost ‘B1’ (11+12) | 89183 | 70337 | 68171 | 70644 |
| 14 | Interest on land value | 160943 | 150401 | 100168 | 121608 |
| 15 | Cost ‘B’ (13+14) | 250126 | 220738 | 168339 | 192252 |
| 16 | Imputed value of household labour | 20862 | 9523 | 5487 | 8092 |
| 17 | Cost ‘C’ (15+16) | 270988 | 230261 | 173826 | 200344 |

Out of the total cost incurred for crop husbandry more than 37.70 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 2019-20



In summer paddy cultivation hired female labour participation accounted as 39.35 % and that of male labour participation is 37.87% to the total labour hours. Details are given below:

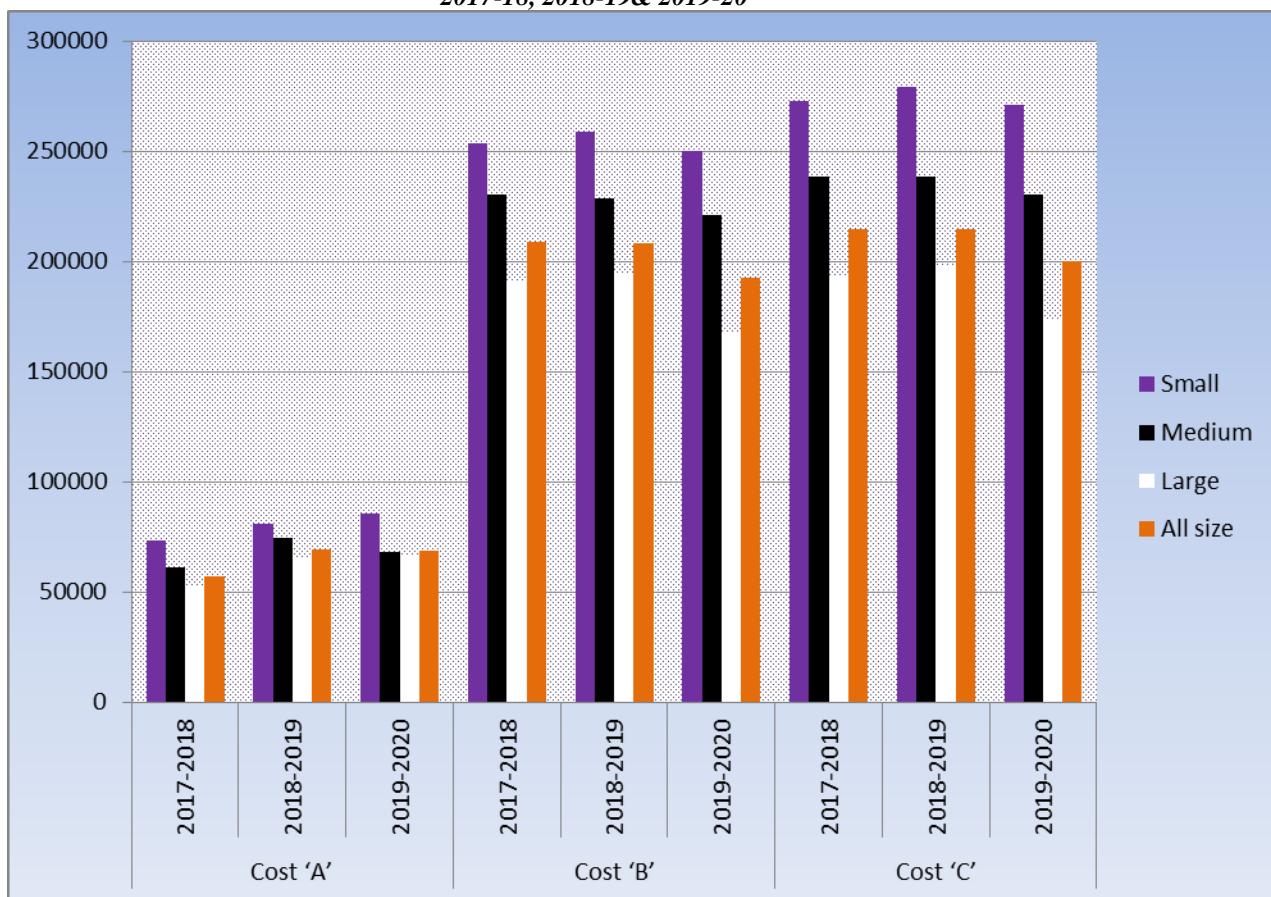
Table 15: Percentage of hired human labour hours to total human labour hours

| Sex | Holding size class | | | |
|--------------|--------------------|-------------|-------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 25.75 | 32.2 | 46.43 | 37.87 |
| Female | 36.35 | 39.7 | 38.87 | 39.35 |
| Total | 62.1 | 71.9 | 85.3 | 77.22 |

Table 16: Cost of Cultivation of Summer Paddy per hectare (in Rs) during 2017-18, 2018-2019 and 2019-2020

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 73240 | 61344 | 52722 | 57200 |
| | 2018-2019 | 81071 | 74220 | 65971 | 69235 |
| | 2019-2020 | 85604 | 67893 | 66740 | 68703 |
| Cost 'B' | 2017-2018 | 253692 | 230215 | 191054 | 208687 |
| | 2018-2019 | 258577 | 228284 | 194920 | 208267 |
| | 2019-2020 | 250126 | 220738 | 168339 | 192252 |
| Cost 'C' | 2017-2018 | 272568 | 238358 | 193652 | 214438 |
| | 2018-2019 | 279185 | 238230 | 198552 | 214828 |
| | 2019-2020 | 270988 | 230261 | 173826 | 200344 |

**COST OF CULTIVATION PER HECTARE OF SUMMER PADDY DURING
2017-18, 2018-19& 2019-20**



Value of Output

Table 17: Per Quintal Cost (in Rs.) of production of Summer Paddy during, 2017-18, 2018-19 and 2019-2020

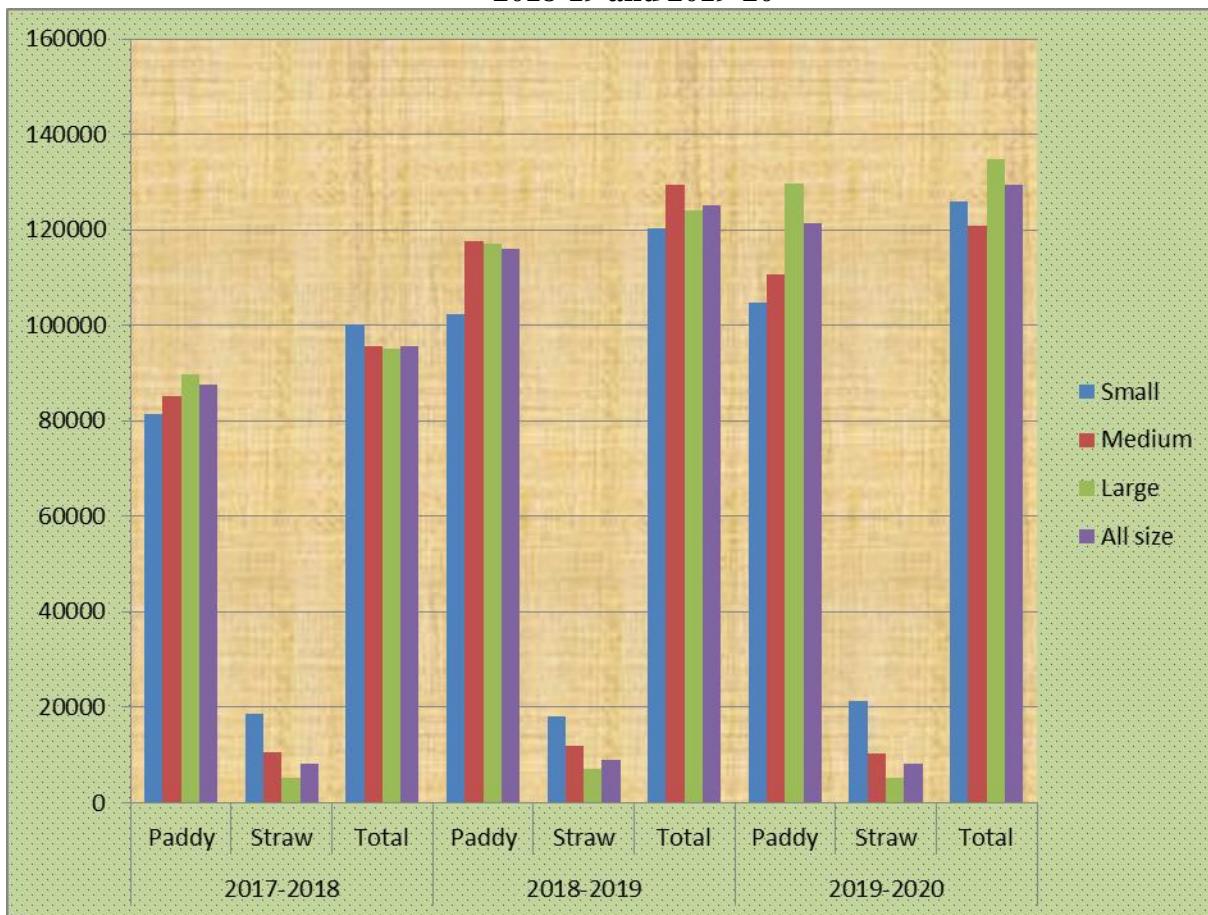
| Concept of cost | Year | Holding size class | | | |
|-----------------|-----------|--------------------|--------|-------|-----------|
| | | Small | Medium | Large | All Sizes |
| Cost ‘A’ | 2017-2018 | 988 | 1681 | 1091 | 1216 |
| | 2018-2019 | 1869 | 1558 | 1406 | 1479 |
| | 2019-2020 | 2068 | 1600 | 1424 | 1528 |
| Cost ‘B’ | 2017-2018 | 3319 | 6006 | 3656 | 4162 |
| | 2018-2019 | 5960 | 4793 | 4153 | 4449 |
| | 2019-2020 | 6044 | 5203 | 3591 | 4275 |
| Cost ‘C’ | 2017-2018 | 3563 | 6215 | 3704 | 4274 |
| | 2018-2019 | 6435 | 5002 | 4231 | 4265 |
| | 2019-2020 | 6548 | 5428 | 3708 | 4128 |

Above table reveals that for producing one quintal of paddy in summer season an amount of Rs1528/- is required when cost ‘A’ is considered. Per hectare value of paddy produced during the season is calculated as Rs.121326/- and the value of by-product viz. straw is estimated as Rs.8242/-

Table 18: Value of Product and by product per hectare (in Rs) of Summer Paddy during 2017-18, 2018-19 and 2019-20

| Year | Product/ By product | Holding size class | | | |
|-----------|------------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| 2017-2018 | Paddy | 81508 | 85151 | 89743 | 87596 |
| | Straw | 18582 | 10537 | 5278 | 8079 |
| | Total | 100090 | 95688 | 95021 | 95675 |
| 2018-2019 | Paddy | 102291 | 117584 | 117075 | 115989 |
| | Straw | 18150 | 11795 | 6982 | 9079 |
| | Total | 120441 | 129379 | 124057 | 125068 |
| 2019-2020 | Paddy | 104690 | 110615 | 129587 | 121326 |
| | Straw | 21380 | 10187 | 5301 | 8242 |
| | Total | 126070 | 120802 | 134888 | 129568 |

Value of Product and By product per hectare (in Rs) of Summer Paddy during 2017-18, 2018-19 and 2019-20



2.2 Coconut during 2019-20

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 0.41 hectare. Details of the study conducted during 2019-20 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 | 278 | 40.01 | 12.88 | 0.14 |
| Medium | 377 | 142.7 | 45.94 | 0.38 |
| Large | 105 | 127.9 | 41.18 | 1.22 |
| Total | 760 | 310.61 | 100 | 0.41 |

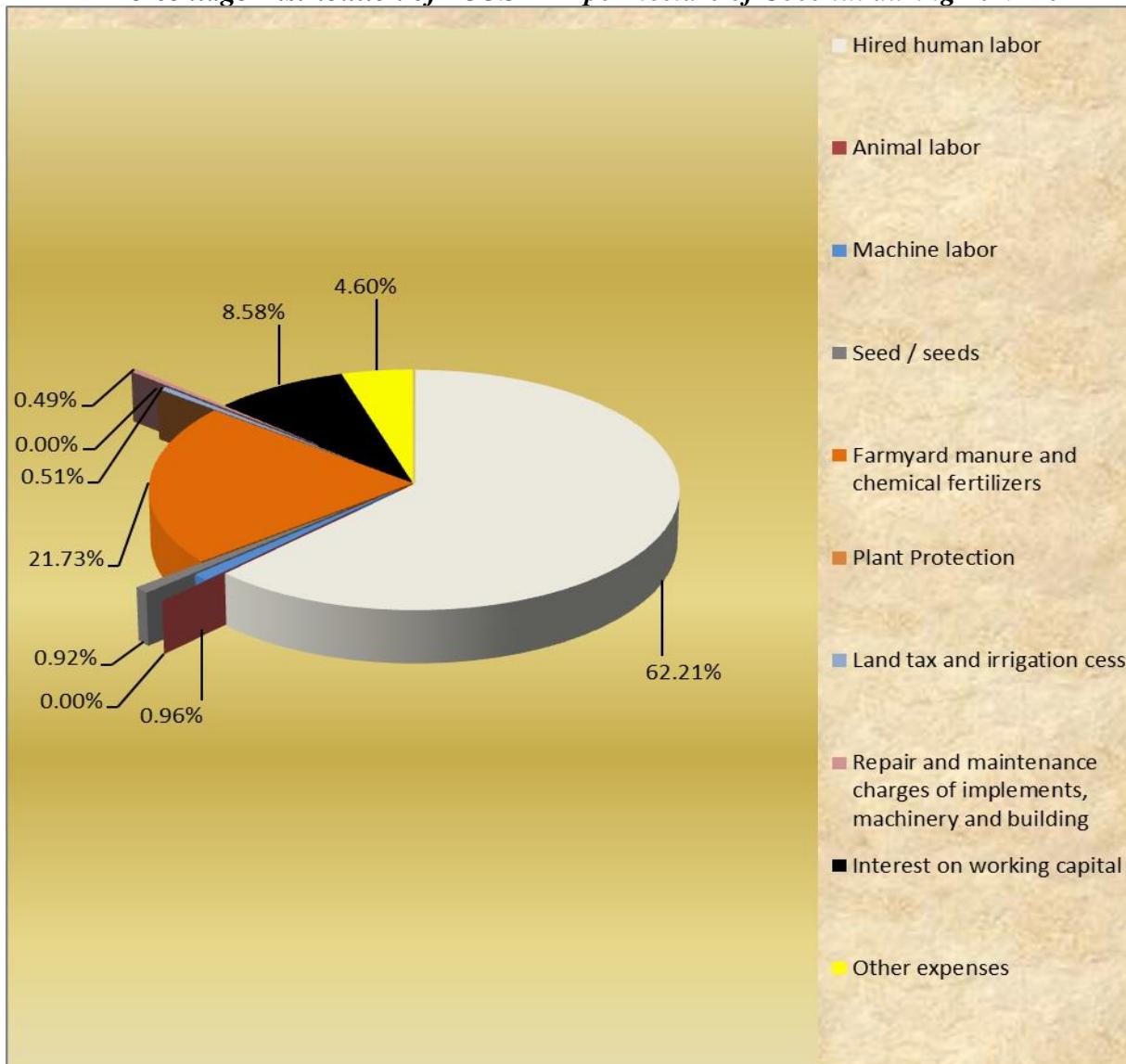
Cost of Cultivation

Cost per hectare for cultivating coconut during 2019-20 was Rs77584/- excluding interest on fixed capital, land value and value of household labour. Out of this 62.21% of total cost is for the component of hired human labour and 21.73% 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 | 47176 | 48884 | 47913 | 48264 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 70 | 375 | 1365 | 743 |
| 4 | Seed / seedlings | 397 | 524 | 1028 | 715 |
| 5 | Farmyard manure and chemical fertilizers | 17216 | 17508 | 16025 | 16860 |
| 6 | Plant protection | | | | |
| 7 | Land tax and irrigation Cess | 380 | 397 | 390 | 392 |
| 8 | Repair and maintenance charges of implements, machinery and building | 793 | 354 | 285 | 382 |
| 9 | Interest on working capital | 6486 | 6729 | 6633 | 6658 |
| 10 | Other expenses | 3669 | 3382 | 3749 | 3570 |
| 11 | Total Cost 'A' (1-10) | 76187 | 78153 | 77388 | 77584 |
| 12 | Interest on fixed capital | 3630 | 3574 | 7349 | 5136 |
| 13 | Cost 'B1' (11+12) | 79817 | 81727 | 84737 | 82720 |
| 14 | Interest on land value | 432450 | 442207 | 454230 | 445901 |
| 15 | Cost 'B' (13+14) | 512267 | 523934 | 538967 | 528621 |
| 16 | Imputed value of household labour | 16424 | 11254 | 6280 | 9872 |
| 17 | Cost 'C' (15+16) | 528691 | 535188 | 545247 | 538493 |

Percentage Distribution of “COST A” per hectare of Coconut during 2019-20



The following table reveals the percentage distribution of hired human labour hours to the total human labourhours.The percentage shares of female participation in total human labourhours are 8.2 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 | 64.97 | 69.57 | 71.64 | 69.66 |
| Female | 11.44 | 17.72 | 29.33 | 8.2 |
| Total | 76.41 | 87.29 | 100.97 | 77.86 |

Table 22: Cost of cultivation of Coconut per hectare (in Rs.) during 2017-18, 2018-19& 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 68898 | 68744 | 68054 | 68434 |
| | 2018-2019 | 73347 | 74291 | 75067 | 74536 |
| | 2019-2020 | 76187 | 78153 | 77388 | 77584 |
| Cost 'B' | 2017-2018 | 616350 | 680508 | 547301 | 608168 |
| | 2018-2019 | 583856 | 640556 | 472187 | 558313 |
| | 2019-2020 | 512267 | 523934 | 538967 | 528621 |
| Cost 'C' | 2017-2018 | 633636 | 691776 | 553435 | 617780 |
| | 2018-2019 | 600149 | 652331 | 478105 | 567948 |
| | 2019-2020 | 528691 | 535188 | 545247 | 538493 |

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 | 143382 | 158557 | 164164 | 158910 |
| By-Product | 1679 | 2154 | 3651 | 2710 |
| Total | 145061 | 160711 | 167815 | 161620 |

The study reveals that the value of output is Rs161620/- per hectare were as the cost of cultivation per hectare is Rs77584/-.

2.3 Arecanut during 2019-20

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 754 sample holding were selected under three holdings size classes namely small, medium and large. The average area per holding was 0.14 hectare and the total area under the crop in the sample was 103.04 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 | 613 | 37.78 | 36.67 | 0.06 |
| Medium | 112 | 38.62 | 37.48 | 0.34 |
| Large | 29 | 26.64 | 25.85 | 0.92 |
| Total | 754 | 103.04 | 100.00 | 0.14 |

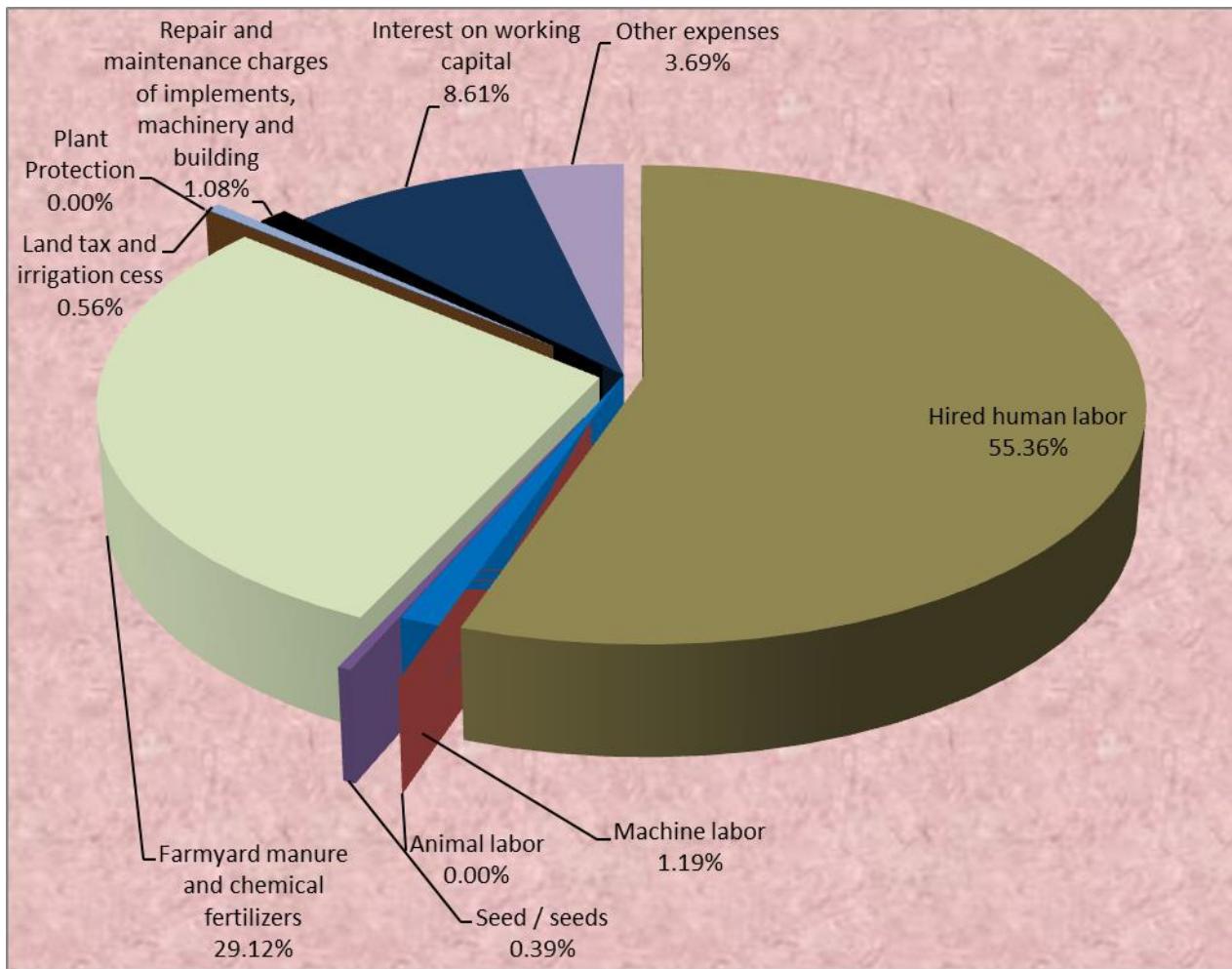
Cost of Cultivation

The different cost components of Arecanut cultivation is given below: Per hectare cost expenses is worked out as Rs.103454/- excluding interest on fixed capital, interest on land value and household labour components. Out of this 55.36% cost is for hired human labour and 29.12% 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 | 60935 | 56080 | 53786 | 57267 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 83 | 1772 | 2088 | 1234 |
| 4 | Seed / seedlings | 563 | 257 | 376 | 400 |
| 5 | Farmyard manure and chemical fertilizers | 21672 | 33643 | 37029 | 30129 |
| 6 | Plant protection | | | | |
| 7 | Land tax and irrigation Cess | 389 | 632 | 789 | 584 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1042 | 1174 | 1142 | 1117 |
| 9 | Interest on working capital | 8325 | 9175 | 9328 | 8903 |
| 10 | Other expenses | 5033 | 3580 | 2448 | 3820 |
| 11 | Total Cost 'A' (1-10) | 98042 | 106313 | 106986 | 103454 |
| 12 | Interest on fixed capital | 9621 | 13307 | 7845 | 10543 |
| 13 | Cost 'B1' (11+12) | 107663 | 119620 | 114831 | 113997 |
| 14 | Interest on land value | 483656 | 402258 | 415861 | 435621 |
| 15 | Cost 'B' (13+14) | 591319 | 521878 | 530692 | 549618 |
| 16 | Imputed value of household labour | 30300 | 18627 | 9302 | 20496 |
| 17 | Cost 'C' (15+16) | 621619 | 540505 | 539994 | 570114 |

Percentage Distribution of “COST A” per hectare of arecanut during 2019-20



The following table illustrates the work participation of arecanut cultivation. It shows that out of 69.19 per cent of the total labour hours 15.15% has been shared by females and 54.04% 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 | 50.92 | 52.64 | 62.9 | 54.04 |
| Female | 17.21 | 28.16 | 34.16 | 15.15 |
| Total | 68.13 | 80.8 | 97.06 | 69.19 |

Table 27: Cost of Cultivation of Arecanut per hectare (in Rs) during 2017-18, 2018-2019 and 2019-2020

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 76569 | 83608 | 96486 | 84897 |
| | 2018-2019 | 81305 | 102220 | 114869 | 100395 |
| | 2019-2020 | 98042 | 106313 | 106986 | 103454 |
| Cost 'B' | 2017-2018 | 620065 | 469220 | 462917 | 525237 |
| | 2018-2019 | 543961 | 497532 | 370244 | 463610 |
| | 2019-2020 | 591319 | 521878 | 530692 | 549618 |
| Cost 'C' | 2017-2018 | 643946 | 484580 | 471862 | 541882 |
| | 2018-2019 | 570143 | 518158 | 380209 | 481926 |
| | 2019-2020 | 621619 | 540505 | 539994 | 570114 |

Value of Out put

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

The estimated value of output per hectare is Rs.260726/- against the per hectare cost A of cultivation is Rs103454/-.

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 228887 | 289973 | 263482 | 260726 |

2.4 Tapioca during 2019-20

Area under the crop in this study was 112.04 hectare from 555 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 | 404 | 34.38 | 30.69 | 0.09 |
| Medium | 129 | 41.53 | 37.07 | 0.32 |
| Large | 22 | 36.13 | 32.25 | 1.64 |
| Total | 555 | 112.04 | 100 | 0.20 |

The average size of a selected holding is 0.20 hectare

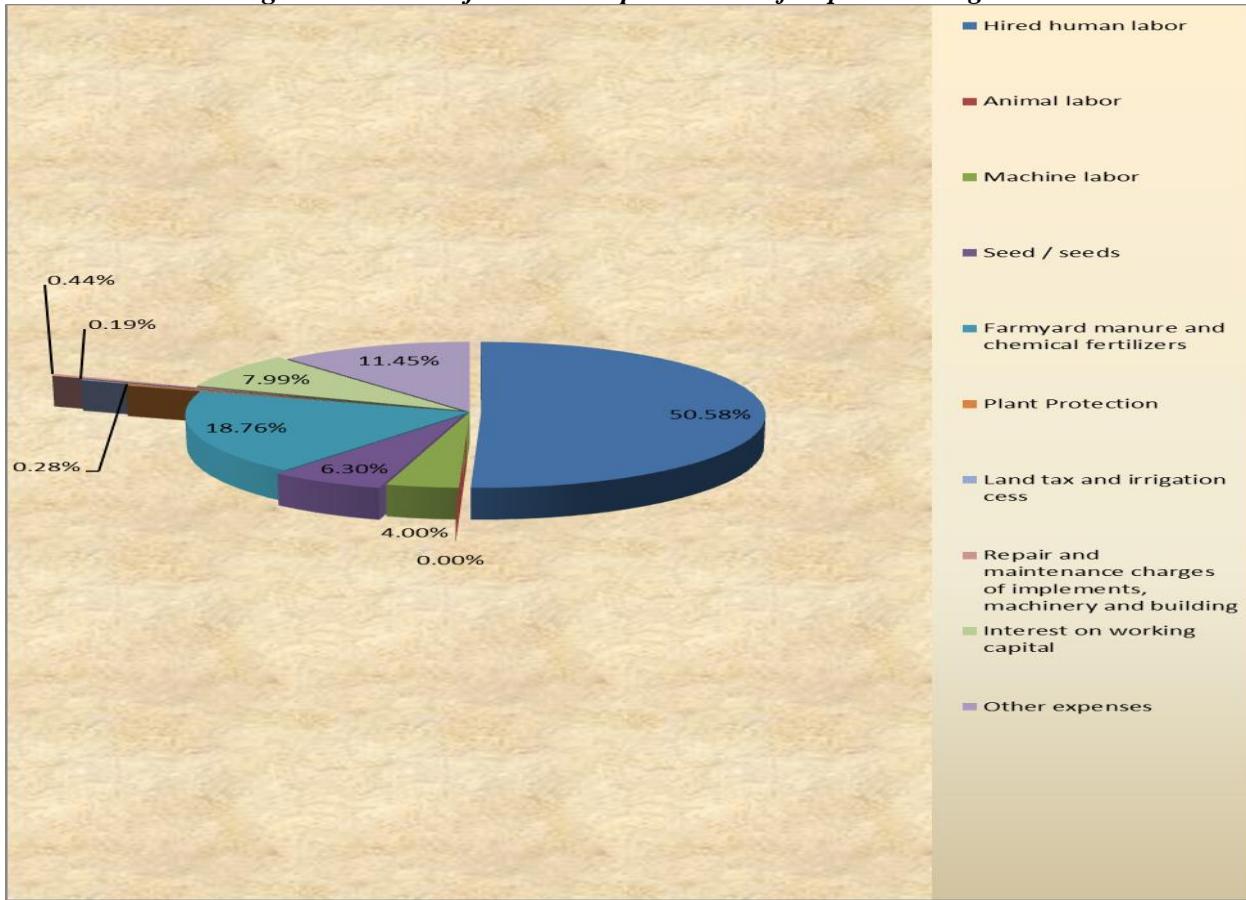
Cost of Cultivation

When Cost A is considered, per hectare cost of cultivation of tapioca is worked out as Rs.121258/- .In this cost A, hired human labour cost constituted 50.58% where as farmyard manure and chemical fertilizers shares 18.76%. Interest on working capital 7.99% and other expenses contribute 11.45%.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 | 65158 | 65550 | 52859 | 61337 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 2138 | 2161 | 10514 | 4847 |
| 4 | Seed / seedlings | 9119 | 6780 | 7224 | 7641 |
| 5 | Farmyard manure and chemical fertilizers | 25146 | 22093 | 21231 | 22752 |
| 6 | Plant protection | 207 | 399 | 401 | 341 |
| 7 | Land tax and irrigation Cess | 294 | 271 | 112 | 227 |
| 8 | Repair and maintenance charges of implements, machinery abuilding | 705 | 543 | 358 | 533 |
| 9 | Interest on working capital | 10177 | 9698 | 9223 | 9692 |
| 10 | Other expenses | 9496 | 12590 | 19560 | 13888 |
| 11 | Total Cost 'A' (1-10) | 122440 | 120085 | 121482 | 121258 |
| 12 | Interest on fixed capital | 3745 | 2322 | 1001 | 2333 |
| 13 | Cost 'B1' (11+12) | 126185 | 122407 | 122483 | 123591 |
| 14 | Interest on land value | 353210 | 407437 | 293385 | 354017 |
| 15 | Cost 'B' (13+14) | 479395 | 529844 | 415868 | 477608 |
| 16 | Imputed value of household labour | 53646 | 27767 | 11323 | 30407 |
| 17 | Cost 'C' (15+16) | 533041 | 557611 | 427191 | 508015 |

Percentage Distribution of “COST A” per hectare of Tapioca during 2019-20



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 | 47.2 | 61.83 | 74.76 | 58.93 |
| Female | 7.35 | 16.09 | 21.74 | 6.01 |
| Total | 54.55 | 77.92 | 96.5 | 64.94 |

In tapioca cultivation 58.93% 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 2017-18, 2018-19 and 2019-20

A comparative statement for 2017-18, 2018-19 and 2019-20 for cost of cultivation of different concept is given below.

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost "A" | 2017-2018 | 103582 | 108440 | 94744 | 103061 |
| | 2018-2019 | 114078 | 117134 | 101455 | 111688 |
| | 2019-2020 | 122440 | 120085 | 121482 | 121258 |
| Cost 'B' | 2017-2018 | 610873 | 796094 | 457370 | 644765 |
| | 2018-2019 | 548634 | 491816 | 315711 | 455456 |
| | 2019-2020 | 479395 | 529844 | 415868 | 477608 |
| Cost 'C' | 2017-2018 | 666071 | 823147 | 475605 | 677149 |
| | 2018-2019 | 600620 | 514480 | 328912 | 483318 |
| | 2019-2020 | 533041 | 557611 | 427191 | 508015 |

Value of Out put

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

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 358153 | 333755 | 322142 | 337498 |

The value of output for medium holding size class has slight variation. The value of out put per hectre of Tapioca is estimated as Rs.337498/-where as the cost of cultivation per hectre, the paid out cost actually increased by the cultivators is only Rs.121258/-.

2.5 Banana during 2019-20

To study the cost of cultivation on banana 548 sample holdings were selected by covering an area of 133.22 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 | 334 | 30.31 | 22.75 | 0.09 |
| Medium | 178 | 61.21 | 45.95 | 0.34 |
| Large | 36 | 41.7 | 31.30 | 1.16 |
| Total | 548 | 133.22 | 100.00 | 0.24 |

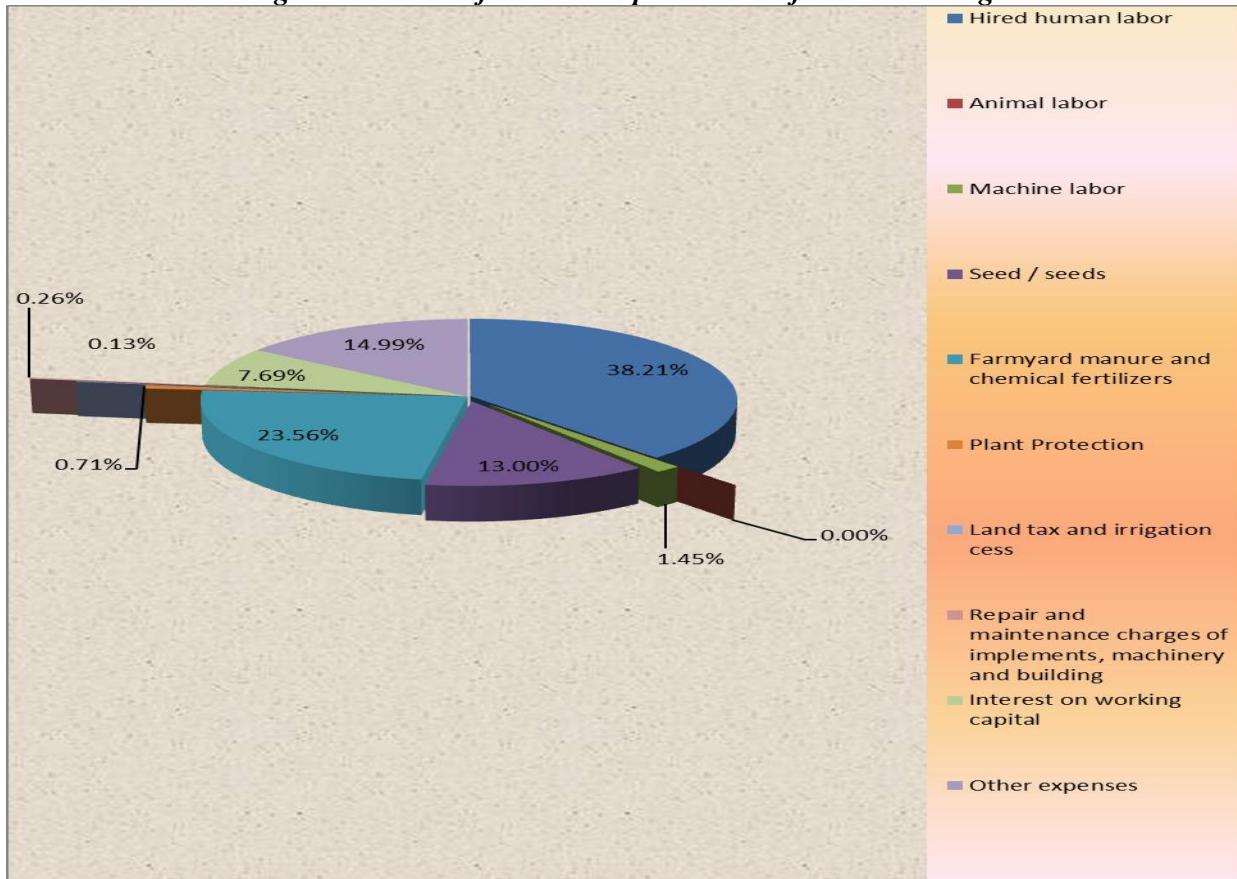
Cost of Cultivation

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 | 89056 | 87530 | 75336 | 83993 |
| 2 | Animal labour | 9 | | | 2 |
| 3 | Machine labour | 1842 | 2089 | 5802 | 3188 |
| 4 | Seed / seedlings | 28524 | 28850 | 28287 | 28575 |
| 5 | Farmyard manure and chemical | 49637 | 47871 | 59098 | 51777 |
| 6 | Plant protection | 1411 | 1392 | 1919 | 1558 |
| 7 | Land tax and irrigation Cess | 448 | 292 | 145 | 281 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1011 | 499 | 334 | 563 |
| 9 | Interest on working capital | 17048 | 16773 | 17044 | 16909 |
| 10 | Other expenses | 26438 | 27601 | 45672 | 32946 |
| 11 | Total Cost 'A' (1-10) | 215424 | 212897 | 233637 | 219792 |
| 12 | Interest on fixed capital | 13795 | 3568 | 2879 | 5666 |
| 13 | Cost 'B1' (11+12) | 229219 | 216465 | 236516 | 225458 |
| 14 | Interest on land value | 320060 | 323464 | 276989 | 307751 |
| 15 | Cost 'B' (13+14) | 549279 | 539929 | 513505 | 533209 |
| 16 | Imputed value of household labour | 74811 | 39790 | 22864 | 42524 |
| 17 | Cost 'C' (15+16) | 624090 | 579719 | 536369 | 575733 |

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 Rs219792/- Out of this 38.21% cost involved in hired human labour component, 23.56% cost for farmyard manure and chemical fertilizers and Seed/Seedlings constitute 0.13 % and other expenses shares 14.99%.

Percentage Distribution of “COST A” per hectare of Banana during 2019-20



In Banana cultivation male participation (58.87%) is higher than that of female (6.15%). 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 | 48.56 | 61.66 | 66.08 | 58.87 |
| Female | 7.46 | 13.5 | 20.78 | 6.15 |
| Total | 56.02 | 75.16 | 86.86 | 65.02 |

Table 37: Cost of Cultivation per hectare of Banana (In Rs.) during 2017-18, 2018-19&2019-20

A comparative statement for 2017-18, 2018-19 and 2019-20 for cost of cultivation of different concept is given below.

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|---------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 191918 | 188039 | 181425 | 186081 |
| | 2018-2019 | 203664 | 228718 | 209297 | 216796 |
| | 2019-2020 | 215424 | 212897 | 233637 | 219792 |
| Cost 'B' | 2017-2018 | 688946 | 662418 | 977423 | 793095 |
| | 2018-2019 | 609626 | 547813 | 781300 | 645337 |
| | 2019-2020 | 549279 | 539929 | 513505 | 533209 |
| Cost 'C' | 2017-2018 | 764318 | 699195 | 1000811 | 831355 |
| | 2018-2019 | 682228 | 590088 | 801951 | 685479 |
| | 2019-2020 | 624090 | 579719 | 536369 | 575733 |

Value of output

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

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 507820 | 508286 | 564027 | 525063 |

During 2019-20 per hectare value of output from banana cultivation is estimated out as Rs.525063/- whereas the cost A per hectre is Rs.219792/-.

2.6 Pepper during 2019-20

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 | 462 | 25 | 42.91 | 0.05 |
| Medium | 62 | 20.6 | 35.36 | 0.33 |
| Large | 13 | 12.65 | 21.71 | 0.97 |
| Total | 537 | 58.26 | 100 | 0.11 |

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 63.74% and the farmyard manure and chemical fertilizer cost is 19.75% 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 | 54390 | 55161 | 45079 | 52640 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 194 | 325 | 1857 | 601 |
| 4 | Seed / seedlings | 839 | 1549 | 1391 | 1210 |
| 5 | Farmyard manure and chemical fertilizers | 19767 | 14734 | 12050 | 16311 |
| 6 | Plant protection | 416 | 688 | 1000 | 639 |
| 7 | Land tax and irrigation Cess | 444 | 305 | 299 | 363 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1285 | 1202 | 367 | 1056 |
| 9 | Interest on working capital | 7561 | 7246 | 6138 | 7140 |
| 10 | Other expenses | 3303 | 2333 | 1754 | 2623 |
| 11 | Total Cost 'A' (1 to 10) | 88199 | 83543 | 69935 | 82583 |
| 12 | Interest on fixed capital | 14576 | 7973 | 3995 | 9942 |
| 13 | Cost 'B1' (11+12) | 102775 | 91516 | 73930 | 92525 |
| 14 | Interest on land value | 436969 | 317016 | 158392 | 334052 |
| 15 | Cost 'B' (13+14) | 539744 | 408532 | 232322 | 426577 |
| 16 | Imputed value of household labour | 41407 | 18468 | 13674 | 27273 |
| 17 | Cost 'C' (15+16) | 581151 | 427000 | 245996 | 453850 |

Percentage Distribution of “COST A” per hectare of Pepper during 2019--20

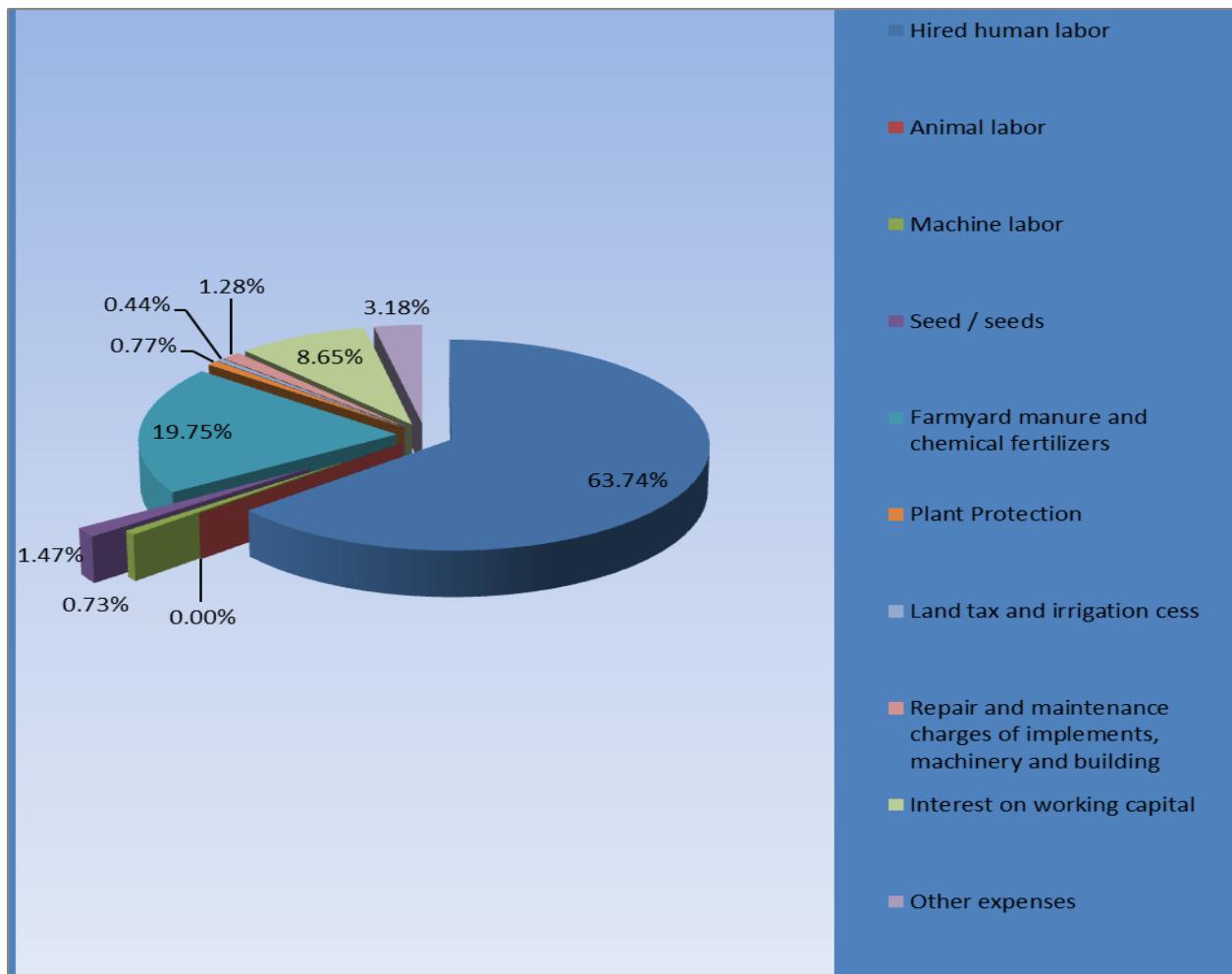


Table 41: Percentage of hired human labour hours to total human labour hours

| Sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 50.23 | 66.34 | 66.55 | 58.52 |
| Female | 6.45 | 17 | 20.39 | 5.53 |
| Total | 56.68 | 83.34 | 86.94 | 64.05 |

Table 42: Cost of cultivation of Pepper per hectare (In Rs.) during 2017-18, 2018-19&2019-20

A comparative statement for 2017-18, 2018-19&2019-20 for cost of cultivation of different concept is given below.

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 79031 | 76297 | 70138 | 76510 |
| | 2018-2019 | 79465 | 81478 | 69450 | 78925 |
| | 2019-2020 | 88199 | 83543 | 69935 | 82583 |
| Cost 'B' | 2017-2018 | 694206 | 462091 | 438581 | 563205 |
| | 2018-2019 | 592925 | 526160 | 254266 | 514647 |
| | 2019-2020 | 539744 | 408532 | 232322 | 426577 |
| Cost 'C' | 2017-2018 | 737753 | 480849 | 451844 | 592265 |
| | 2018-2019 | 633943 | 544400 | 270261 | 541938 |
| | 2019-2020 | 581151 | 427000 | 245996 | 453850 |

Value of output

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

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 215198 | 187817 | 155620 | 192577 |

During 2019-20 it is estimated that Rs.192577/-has been received as value of Output from per hectare pepper cultivation whereas cost A for Cultivation is Rs.82583/-.

2.7 Ginger during 2019-20

For the cost of cultivation study during 2019-20, 436 sample holdings were selected for the crop ginger and total area covered for study is 33.66 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 | 390 | 17.3 | 51.4 | 0.04 |
| Medium | 41 | 11.3 | 33.57 | 0.28 |
| Large | 5 | 5.06 | 15.03 | 1.01 |
| Total | 436 | 33.66 | 100 | 0.08 |

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 36.08% of the total cost. Seed/seedling and farmyard manure and fertilizer share is 30.91% and 14.04% 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 | 73605 | 89121 | 39352 | 73666 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 704 | 4210 | 4782 | 2494 |
| 4 | Seed / seedlings | 58188 | 91541 | 16495 | 63120 |
| 5 | Farmyard manure and chemical fertilizers | 27960 | 37781 | 10790 | 28677 |
| 6 | Plant protection | 736 | 1359 | 3992 | 1434 |
| 7 | Land tax and irrigation cess | 320 | 221 | 39 | 245 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1263 | 567 | | 839 |
| 9 | Interest on working capital | 16119 | 22401 | 7541 | 16939 |
| 10 | Other expenses | 9950 | 20485 | 31814 | 16774 |
| 11 | Total Cost 'A' (1-10) | 188845 | 267686 | 114805 | 204188 |
| 12 | Interest on fixed capital | 4388 | 2133 | 16723 | 5486 |
| 13 | Cost 'B1' (11+12) | 193233 | 269819 | 131528 | 209674 |
| 14 | Interest on land value | 336760 | 203122 | 88403 | 254551 |
| 15 | Cost 'B' (13+14) | 529993 | 472941 | 219931 | 464225 |
| 16 | Imputed value of household labour | 68905 | 30411 | 4644 | 46319 |
| 17 | Cost 'C' (15+16) | 598898 | 503352 | 224575 | 510544 |

Percentage Distribution of “COST A” per hectare of Ginger during 2019-20

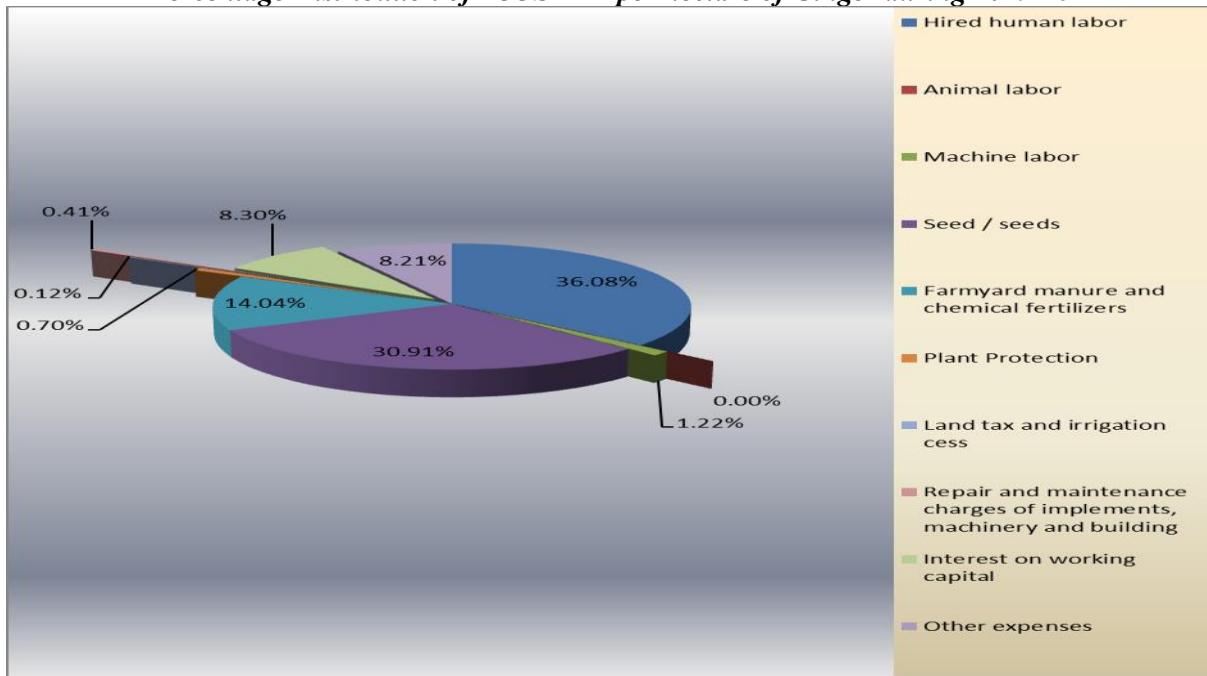


Table 46: Percentage distribution of hired human labour hours to total

Human labour hours

| sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 43.65 | 41.12 | 9.26 | 39.01 |
| Female | 11.45 | 35.65 | 47.99 | 24.86 |
| Total | 55.1 | 76.77 | 57.25 | 63.87 |

Table 47: Cost of cultivation of Ginger per hectare (In Rs.) during 2017-18, 2018-19 and 2019-20

A comparative statement for 2017-18, 2018-19&2019-20 for cost of cultivation of different concept is given below.

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost ‘A’ | 2017-2018 | 180199 | 252135 | 313107 | 238820 |
| | 2018-2019 | 174603 | 215447 | 279917 | 208761 |
| | 2019-2020 | 188845 | 267686 | 114805 | 204188 |
| Cost ‘B’ | 2017-2018 | 586517 | 511956 | 543993 | 554207 |
| | 2018-2019 | 653462 | 448887 | 347564 | 526549 |
| | 2019-2020 | 529993 | 472941 | 219931 | 464225 |
| Cost ‘C’ | 2017-2018 | 652004 | 548143 | 560420 | 597334 |
| | 2018-2019 | 715528 | 476332 | 356656 | 566898 |
| | 2019-2020 | 598898 | 503352 | 224575 | 510544 |

Value of Out put

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

| Holding Size Class | | | |
|--------------------|--------|---------|-----------|
| Small | Medium | Large | All Sizes |
| 474708 | 607270 | 1008604 | 599480 |

The per hectare value of output estimated from Ginger cultivation is Rs.599480/- and the cost of cultivation per hectare is Rs204188/- excluding interest on fixed capital, land value and household labour.

2.8 Turmeric during 2019-20

Sample holdings selected for the cost of cultivation study of turmeric is 475 which distributed among the three holding size classes and total area within the sample holding was 28.89 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 | 442 | 17.78 | 61.54 | 0.04 |
| Medium | 32 | 9.49 | 32.85 | 0.3 |
| Large | 1 | 1.62 | 5.61 | 1.62 |
| Total | 475 | 28.89 | 100 | 0.06 |

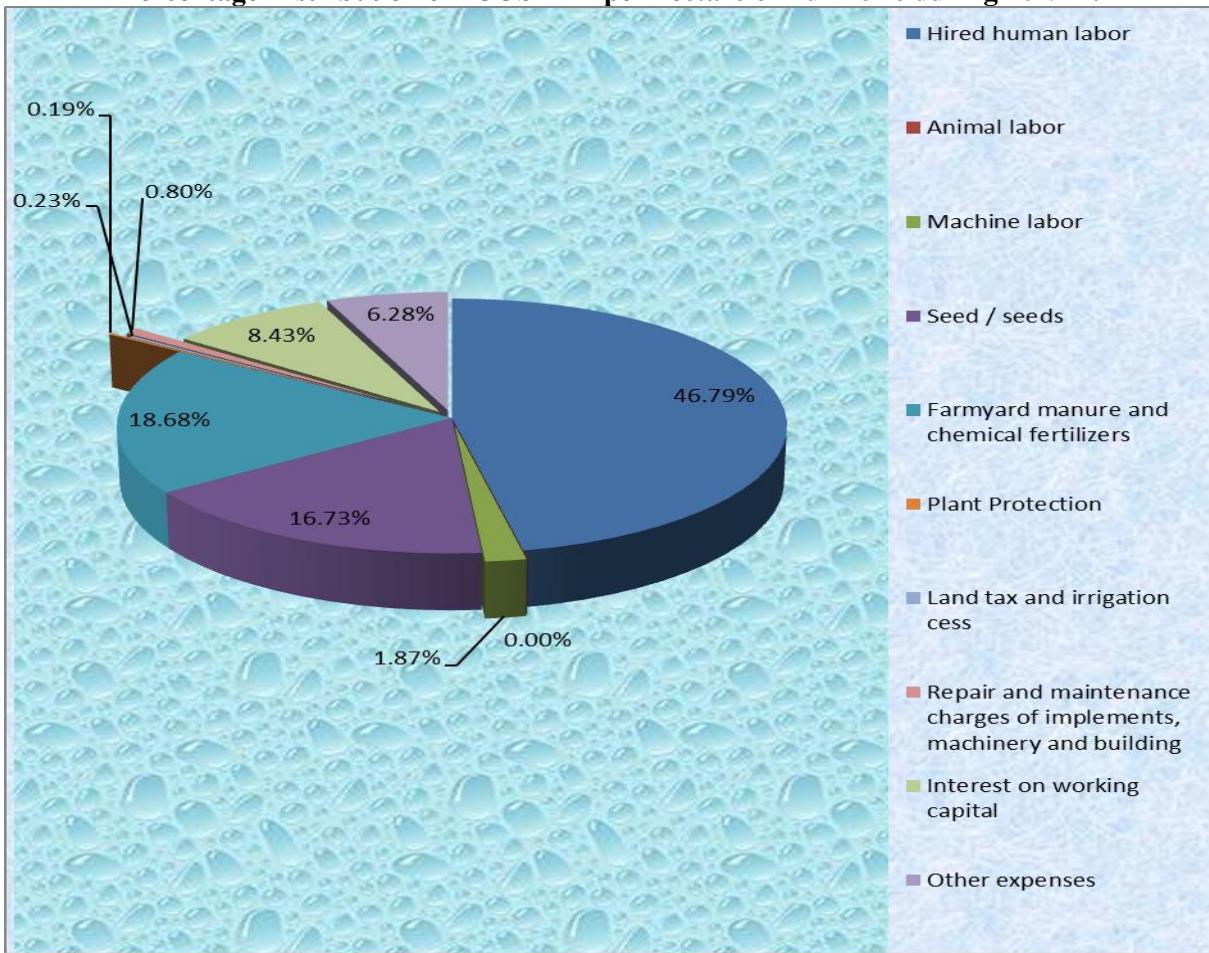
Cost of cultivation

The cash and other kind expenses incurred under Turmeric cultivation is estimated as Rs.129665/-per hectare. Out of this 46.79% is for hired human labour, 16.73% for seed/seedlings and 18.68% 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 | 61286 | 56731 | 77064 | 60674 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 640 | 6185 | | 2426 |
| 4 | Seed / seedlings | 24108 | 19533 | 7904 | 21697 |
| 5 | Farmyard manure and chemical fertilizers | 24173 | 16969 | 67184 | 24217 |
| 6 | Plant protection | 203 | 351 | | 240 |
| 7 | Land tax and irrigation Cess | 343 | 187 | 494 | 300 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1528 | 228 | 440 | 1040 |
| 9 | Interest on working capital | 11041 | 9977 | 15215 | 10925 |
| 10 | Other expenses | 9459 | 6655 | 2470 | 8146 |
| 11 | Total Cost 'A' (1-10) | 132781 | 116816 | 170771 | 129665 |
| 12 | Interest on fixed capital | 3926 | 732 | 545 | 2687 |
| 13 | Cost 'B1' (11+12) | 136707 | 117548 | 171316 | 132352 |
| 14 | Interest on land value | 310543 | 453667 | 145141 | 348304 |
| 15 | Cost 'B' (13+14) | 447250 | 571215 | 316457 | 480656 |
| 16 | Imputed value of household labour | 74222 | 32879 | 51376 | 59355 |
| 17 | Cost 'C' (15+16) | 521472 | 604094 | 367833 | 540011 |

Percentage Distribution of “COST A” per hectare of Turmeric during 2019-20



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 | 35.63 | 40.67 | 60 | 38.04 |
| Female | 12.48 | 28.76 | | 12.83 |
| Total | 48.11 | 69.43 | 60 | 50.87 |

Table 52: Cost of cultivation of Turmeric per hectare (In Rs.) during 2017-18,2018-19 & 2019-20

A comparative statement for 2017-18, 2018-2019 & 2019-20 for cost of cultivation of different concept is given below.

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 134744 | 128759 | 164779 | 137084 |
| | 2018-2019 | 131018 | 142655 | 181133 | 140032 |
| | 2019-2020 | 132781 | 116816 | 170771 | 129665 |
| Cost 'B' | 2017-2018 | 590874 | 555710 | 404291 | 551750 |
| | 2018-2019 | 537428 | 468616 | 362476 | 498262 |
| | 2019-2020 | 447250 | 571215 | 316457 | 480656 |
| Cost 'C' | 2017-2018 | 656246 | 586504 | 416084 | 597567 |
| | 2018-2019 | 609395 | 496605 | 376431 | 551465 |
| | 2019-2020 | 521472 | 604094 | 367833 | 540011 |

In 2019-20 cost of cultivation of turmeric per hectare is decreased when compared to previous years.

Output

The per hectare value of output received from turmeric cultivation is estimated as Rs301175/- during the year 2019-20 and cost of cultivation is estimated as Rs129665/- 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 |
| 313249 | 271968 | 339872 | 301175 |

2.9 Pineapple during 2019-20

In the cost of cultivation study on pineapple 213 sample holdings were selected by covering area 371.50 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 | 73 | 4.27 | 1.15 | 0.06 |
| Medium | 53 | 21.06 | 5.67 | 0.4 |
| Large | 84 | 335.05 | 90.19 | 3.99 |
| Total | 213 | 371.5 | 100 | 1.74 |

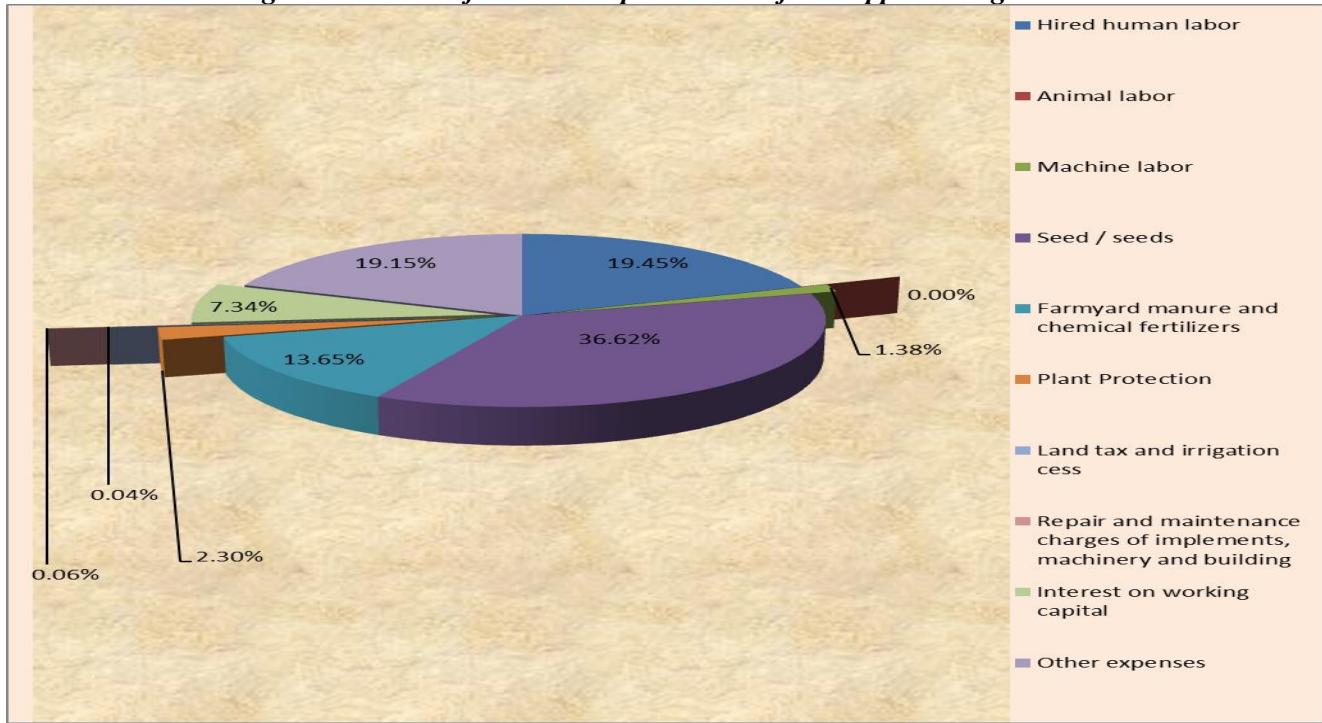
Cost of Cultivation

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 245327/-.

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 | 48783 | 45222 | 48285 | 47719 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 4376 | 4894 | 3087 | 3397 |
| 4 | Seed / seedlings | 81598 | 95984 | 91824 | 89838 |
| 5 | Farmyard manure and chemical fertilizers | 23497 | 27744 | 34876 | 33492 |
| 6 | Plant protection | 2672 | 3950 | 5615 | 5649 |
| 7 | Land tax and irrigation Cess | 440 | 402 | 86 | 105 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1314 | 591 | 110 | 148 |
| 9 | Interest on working capital | 16093 | 17779 | 18369 | 18010 |
| 10 | Other expenses | 9271 | 34935 | 46712 | 46969 |
| 11 | Total Cost ‘A’ (1-10) | 188043 | 231501 | 248962 | 245327 |
| 12 | Interest on fixed capital | 8876 | 3019 | 289 | 536 |
| 13 | Cost ‘B1’ (11+12) | 196919 | 234520 | 249251 | 245863 |
| 14 | Interest on land value | 255232 | 378042 | 475240 | 460919 |
| 15 | Cost ‘B’ (13+14) | 452151 | 612561 | 724492 | 706782 |
| 16 | Imputed value of household labour | 44788 | 15480 | 16118 | 15980 |
| 17 | Cost ‘C’ (15+16) | 496939 | 628041 | 740609 | 722762 |

Percentage Distribution of “COST A” per hectare of Pineapple during 2019-20



The hired human labour cost accounted as 19.45% where as farmyard manure and chemical fertilizers cost as 13.65 percent of the total Cost ‘A’. Seed/seedling cost constitutes to 36.62% 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 | 37.7 | 54.65 | 65.58 | 64.98 |
| Female | 19.88 | 32.3 | 19.88 | 9.32 |
| Total | 57.58 | 86.95 | 85.46 | 74.3 |

Table:57 Cost of cultivation of Pineapple per hectare (in Rs) during 2017-18, 2018-19 & 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 145222 | 197338 | 192819 | 192302 |
| | 2018-2019 | 178221 | 214237 | 211210 | 211075 |
| | 2019-2020 | 188043 | 231501 | 248962 | 245327 |
| Cost 'B' | 2017-2018 | 890928 | 752947 | 687418 | 695922 |
| | 2018-2019 | 495851 | 827211 | 866481 | 861138 |
| | 2019-2020 | 452151 | 612561 | 724492 | 706782 |
| Cost 'C' | 2017-2018 | 931611 | 766605 | 691404 | 701282 |
| | 2018-2019 | 530351 | 845306 | 870825 | 866468 |
| | 2019-2020 | 496939 | 628041 | 740609 | 722762 |

Value of out put

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

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 361908 | 341176 | 362041 | 364160 |

During 2019-20 per hectare value of output from pineapple cultivation is estimated as Rs.364160/- and the cost of cultivating per hectare of pineapple is Rs.245327/-

2.10.1 Bitter Gourd- Autumn during 2019-20

For this study details of holding selected and area coverage are given below. The data collected from 224 sample holdings by covering 35.15 hectares and the average area per holding is 0.16 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 | 168 | 9.97 | 28.36 | 0.06 |
| Medium | 50 | 16.48 | 46.88 | 0.33 |
| Large | 6 | 8.7 | 24.75 | 1.45 |
| Total | 224 | 35.15 | 100 | 0.16 |

Cost of cultivation

When Cost A is considered about 36.64% of cost constitutes to hired human labour, Interest on working capital shares 6.53% and farmyard manure and chemical fertilizers accounts to 17.20%. Total cost for cultivating one hectare of Bittergourd in Autumn season is Rs145821/-.

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 | 72150 | 49109 | 40140 | 53424 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 130 | 6090 | 9800 | 5318 |
| 4 | Seed / seedlings | 6040 | 7778 | 12890 | 8551 |
| 5 | Farmyard manure and chemical fertilizers | 36592 | 23945 | 14044 | 25081 |
| 6 | Plant protection | 2690 | 3044 | 2693 | 2857 |
| 7 | Land tax and irrigation cess | 312 | 2156 | 87 | 1121 |
| 8 | Repair and maintenance charges of implements, machinery and building | 2569 | 152 | 92 | 823 |
| 9 | Interest on working capital | 11760 | 8997 | 7957 | 9523 |
| 10 | Other expenses | 44152 | 45183 | 21890 | 39123 |
| 11 | Total cost 'A' (1-10) | 176395 | 146454 | 109593 | 145821 |
| 12 | Interest on fixed capital | 3132 | 5144 | 15313 | 7092 |
| 13 | Cost 'B1' (11+12) | 179527 | 151598 | 124906 | 152913 |
| 14 | Interest on land value | 317399 | 394109 | 80154 | 294611 |
| 15 | Cost 'B' (13+14) | 496926 | 545707 | 205060 | 447524 |
| 16 | Imputed value of household labour | 119517 | 54219 | 7801 | 61248 |
| 17 | Cost 'C' (15+16) | 616443 | 599926 | 212861 | 508772 |

Percentage Distribution of “COST A” per hectare of Bittergourd(Autumn) during 2019-20

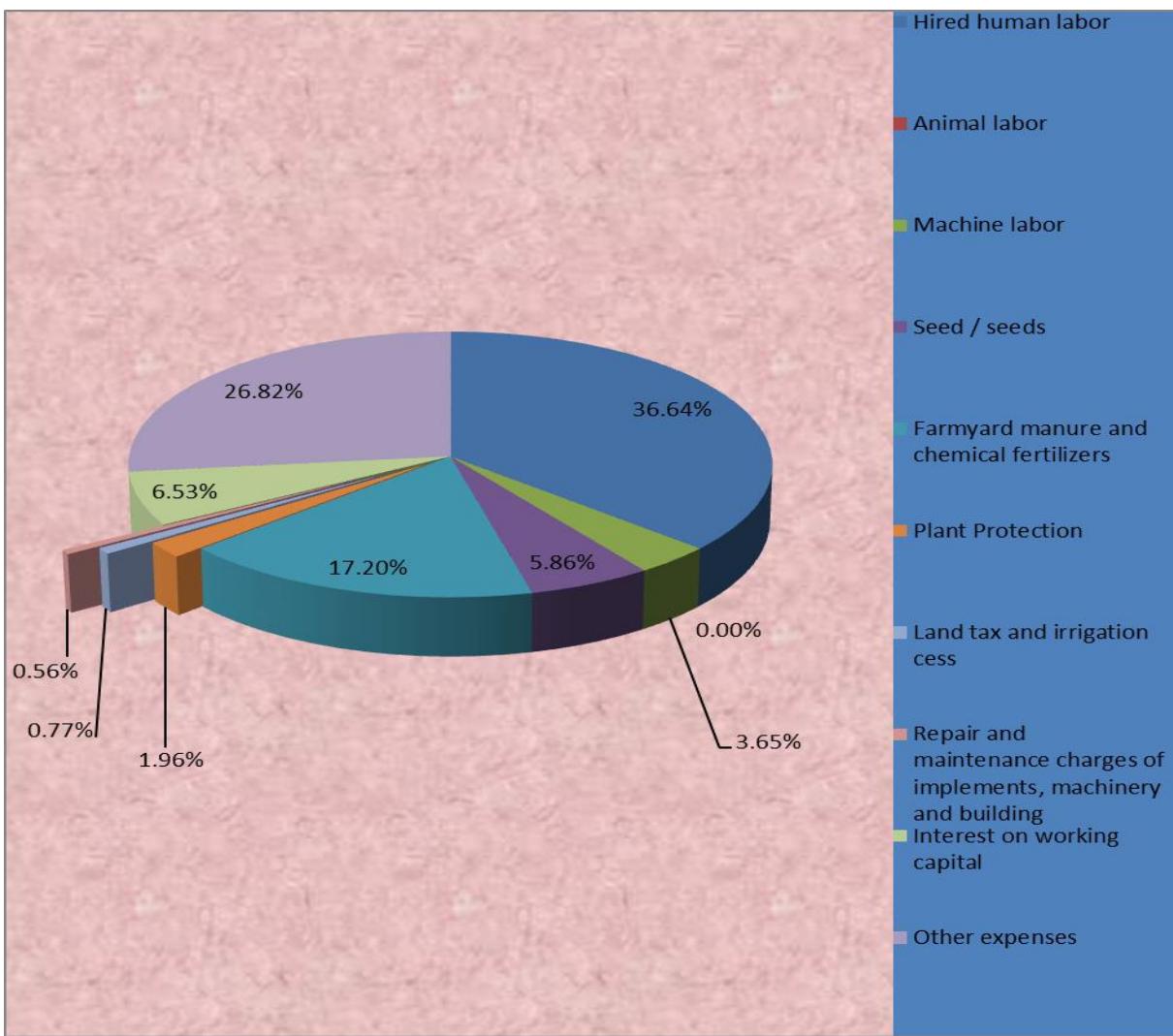


Table 61: Percentage of hired human labour hours to total human labour hours

| Sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 37.26 | 31.95 | 47.31 | 36.51 |
| Female | 1.98 | 21.7 | 42.6 | 14.76 |
| Total | 39.24 | 53.65 | 89.91 | 51.27 |

In Bitter Gourd (Autumn) cultivation 14.76% 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 2017-18, 2018-19 & 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 143637 | 119679 | 100784 | 124719 |
| | 2018-2019 | 150625 | 104947 | 178492 | 135154 |
| | 2019-2020 | 176395 | 146454 | 109593 | 145821 |
| Cost 'B' | 2017-2018 | 577914 | 468225 | 259537 | 470956 |
| | 2018-2019 | 471930 | 446171 | 545175 | 474786 |
| | 2019-2020 | 496926 | 545707 | 205060 | 447524 |
| Cost 'C' | 2017-2018 | 674699 | 510872 | 275937 | 527732 |
| | 2018-2019 | 574506 | 489897 | 562451 | 533031 |
| | 2019-2020 | 616443 | 599926 | 212861 | 508772 |

Table: 63 Value of product and by-product per hectare (in Rs.) of Bitter Gourd -Autumn 2019-20

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 362526 | 328463 | 609192 | 407637 |

Value of product per hectare of Bitter gourd in Autumn season is estimated as Rs407637/-Where as the cost of cultivation per hectre is Rs.145821/-.

2.10.2 Bitter Gourd –Winter during 2019-20

During 2019-20 Cost of cultivation study on Bitter gourd(Winter) season, 265 sample holdings by covering 38.02 hectare selected and the average area per holding covers to 0.14 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 | 210 | 12.31 | 32.38 | 0.06 |
| Medium | 45 | 13.36 | 35.14 | 0.3 |
| Large | 10 | 12.35 | 32.48 | 1.24 |
| Total | 265 | 38.02 | 100 | 0.14 |

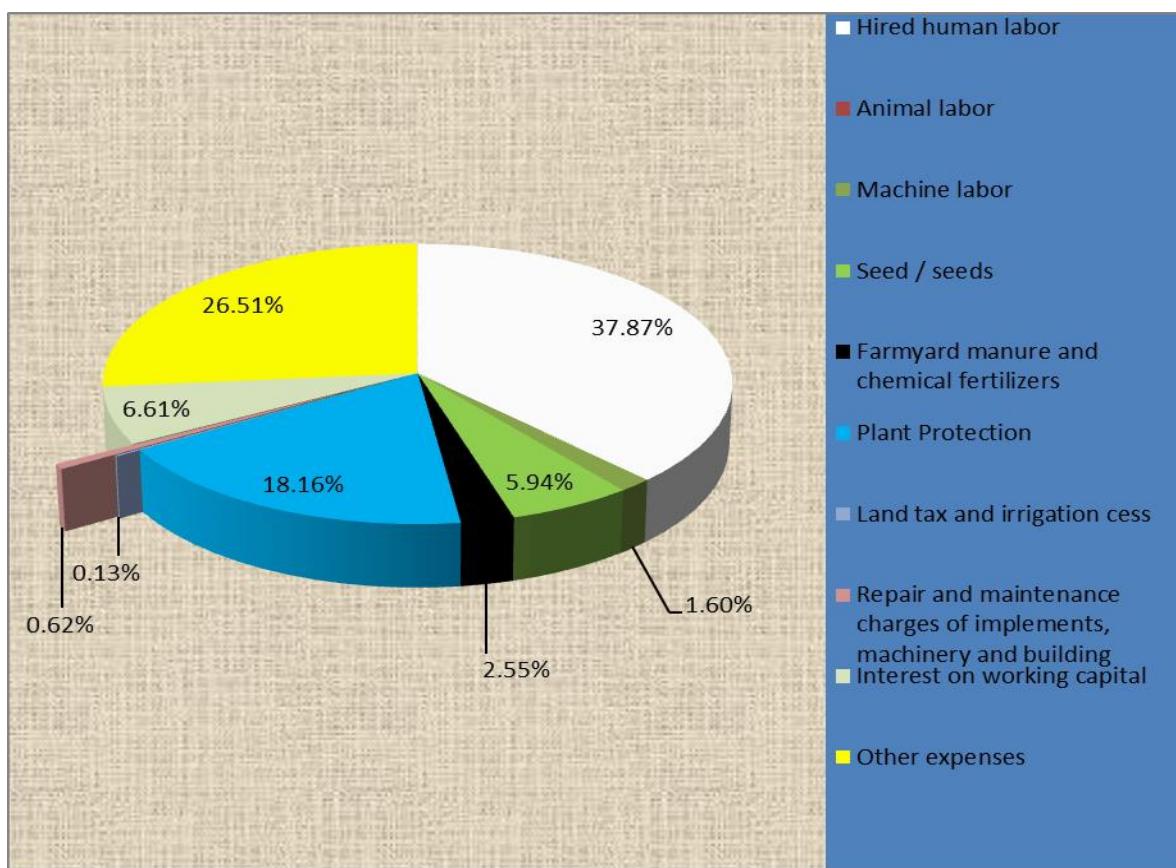
Cost of Cultivation

In CostA, the major share of the cost component was hired human labour. It constitutes 37.87%. Also farmyard manure and chemical fertilizers account 2.55%. Other expense account was 26.51%. By considering the various cost component of Bitter gourd(Winter) cultivation, per hectare cost calculated as Rs.144796/-

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 | 64927 | 61718 | 37342 | 54839 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 671 | 2171 | 4098 | 2311 |
| 4 | Seed / seedlings | 6706 | 7980 | 11182 | 8608 |
| 5 | Farmyard manure and chemical fertilizers | 2536 | 3212 | 5357 | 3690 |
| 6 | Plant protection | 32054 | 26929 | 19884 | 26300 |
| 7 | Land tax and irrigation Cess | 315 | 211 | 30 | 186 |
| 8 | Repair and maintenance charges of implements, machinery and building | 2027 | 620 | 64 | 895 |
| 9 | Interest on working capital | 10689 | 10201 | 7786 | 9575 |
| 10 | Other expenses | 44890 | 44715 | 25074 | 38392 |
| 11 | Total Cost ‘A’ (1-10) | 164815 | 157757 | 110817 | 144796 |
| 12 | Interest on fixed capital | 13233 | 4350 | 12031 | 9720 |
| 13 | Cost ‘B1’ (11+12) | 178048 | 162107 | 122848 | 154516 |
| 14 | Interest on land value | 262204 | 303491 | 92885 | 221717 |
| 15 | Cost ‘B’ (13+14) | 440252 | 465598 | 215733 | 376233 |
| 16 | Imputed value of household labour | 117466 | 59022 | 18362 | 64736 |
| 17 | Cost ‘C’ (15+16) | 557718 | 524620 | 234095 | 440969 |

Percentage Distribution of “COST A” per hectare of Bittergourd (Winter) during 2019-20



Sex wise work participation percentage of hired human labours for Bitter gourd(Winter) cultivation shown below reveals that 12.19% of work shared by Female whereas percentage share to male workers is 35.80%.

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

| Sex | Holding size class | | | |
|--------------|--------------------|-----------|--------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 32.72 | 40.89 | 33.66 | 35.8 |
| Female | 4.52 | 14.11 | 35.09 | 12.19 |
| Total | 37.24 | 55 | 68.75 | 47.99 |

Table:67 Cost of cultivation of Bitter Guard -Winter per hectare(in Rs) during 2017-18, 2018-19& 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 317610 | 136971 | 115945 | 135319 |
| | 2018-2019 | 166455 | 130308 | 112758 | 145423 |
| | 2019-2020 | 164815 | 157757 | 110817 | 144796 |
| Cost 'B' | 2017-2018 | 497367 | 365177 | 273180 | 415690 |
| | 2018-2019 | 432542 | 340296 | 253916 | 374755 |
| | 2019-2020 | 440252 | 465598 | 215733 | 376233 |
| Cost 'C' | 2017-2018 | 595245 | 413848 | 318229 | 486458 |
| | 2018-2019 | 534725 | 391432 | 276196 | 446834 |
| | 2019-2020 | 557718 | 524620 | 234095 | 440969 |

Output

**Table: 68 - Value of Product and By product per hectare(in Rs)of Bitter Gourd (Winter)
2019-20**

| Holding Size Class | | | |
|--------------------|---------------|---------------|---------------|
| Small | Medium | Large | All Sizes |
| 374706 | 379201 | 485074 | 412135 |

2.10.3 Bitter Gourd -Summer during2019-20

For the cost of cultivation study on Bitter gourd(summer) during 2019-20 the total number of sample holdings selected was 190. 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 | 175 | 9.45 | 69.18 | 0.05 |
| Medium | 15 | 4.21 | 30.82 | 0.28 |
| Large | | | | |
| All Size | 190 | 13.66 | 100 | 0.07 |

The total area under cultivation in the selected sample holdings covers 13.66 hectares and the average size of a holding is 0.07 hectare

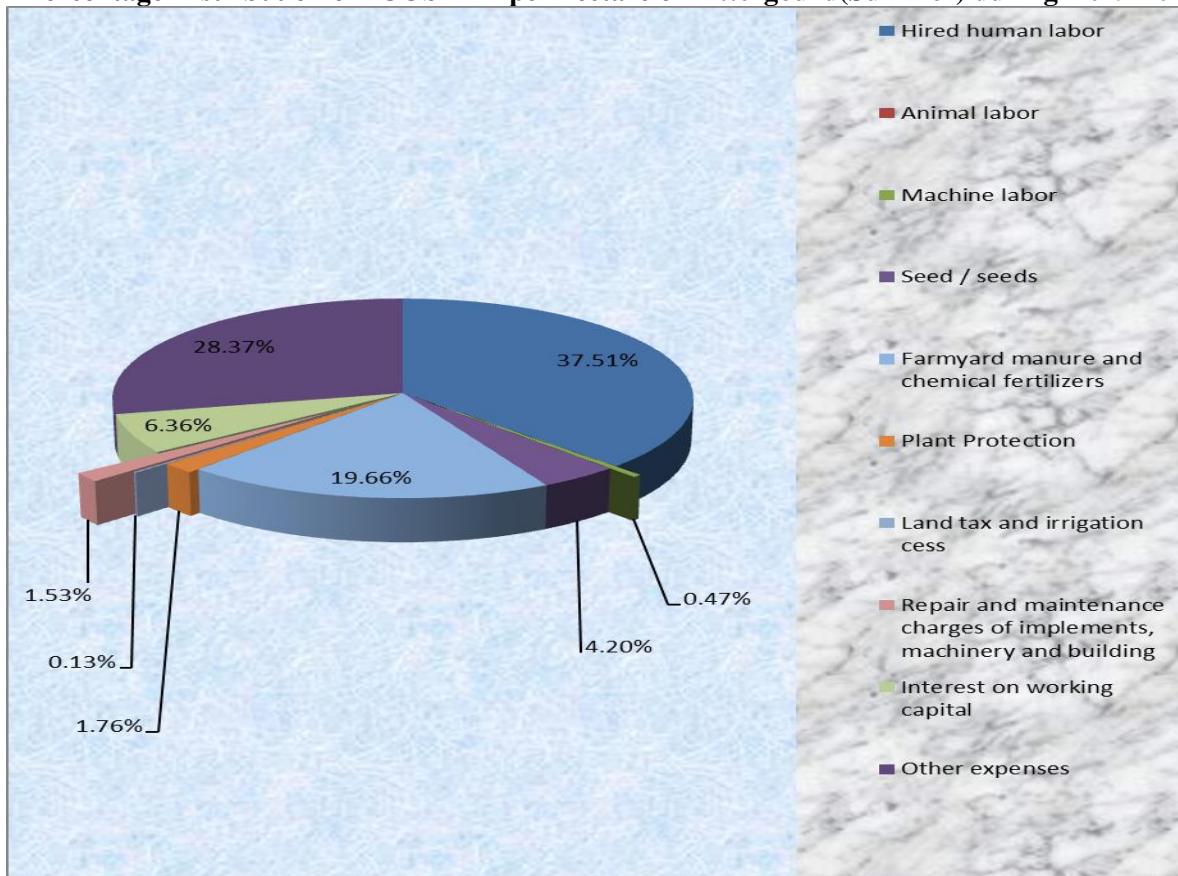
Cost of Cultivation

Cost of cultivation of Bitter gourd(Summer) per hectare is estimated as Rs.156830/- when cost 'A' is considered. Hired humenlabour gives a share of 37.51% and other expense gives 28.37%. 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 | 65736 | 43309 | | 58825 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 586 | 1057 | | 731 |
| 4 | Seed / seedlings | 6687 | 6383 | | 6593 |
| 5 | Farmyard manure and chemical fertilizers | 31553 | 29208 | | 30831 |
| 6 | Plant protection | 2118 | 4224 | | 2767 |
| 7 | Land tax and irrigation Cess | 237 | 150 | | 210 |
| 8 | Repair and maintenance charges of implements, machinery and building | 2936 | 1215 | | 2406 |
| 9 | Interest on working capital | 10668 | 8418 | | 9975 |
| 10 | Other expenses | 39221 | 56328 | | 44492 |
| 11 | Total Cost 'A' (1-10) | 159742 | 150292 | | 156830 |
| 12 | Interest on fixed capital | 11495 | 4428 | | 9320 |
| 13 | Cost 'B1' (11+12) | 171237 | 154720 | | 166150 |
| 14 | Interest on land value | 220717 | 220105 | | 220528 |
| 15 | Cost 'B' (13+14) | 391954 | 374825 | | 386678 |
| 16 | Imputed value of household labour | 138664 | 79843 | | 120538 |
| 17 | Cost 'C' (15+16) | 530618 | 454667 | | 507216 |

Percentage Distribution of “COST A” per hectare of Bittergourd(Summer) during 2019-20



In Bitter gourd (Summer) cultivation male labour participation accounted as 29.77% 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 | 29.66 | 30.26 | | 29.77 |
| Female | 2.91 | 5.00 | | 2.4 |
| Total | 32.57 | 35.26 | | 32.17 |

Table:72 Cost of cultivation of Bitter Gourd -Summer per hectare(in Rs) during 2017-18, 2018-19&2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|---------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 145510 | 131148 | 158118 | 143294 |
| | 2018-2019 | 175795 | 139160 | 178334 | 164070 |
| | 2019-2020 | 159742 | 150292 | | 156830 |
| Cost 'B' | 2017-2018 | 458146 | 283425 | 407751 | 391662 |
| | 2018-2019 | 400373 | 342634 | 921094 | 408695 |
| | 2019-2020 | 391954 | 374825 | | 386678 |
| Cost 'C' | 2017-2018 | 559599 | 340014 | 422261 | 461689 |
| | 2018-2019 | 528406 | 438626 | 1042247 | 526001 |
| | 2019-2020 | 530618 | 454667 | | 507216 |

Table 73: Value of Product and by product per hectare(in Rs) of Bitter Gourd (Summer) during 2019-20

| Holding Size Class | | | |
|--------------------|--------|-------|-----------|
| Small | Medium | Large | All Sizes |
| 373186 | 300621 | | 350825 |

2.11.1 Cowpea- Autumn during 2019-20

Sample of holding selected and area coverage for the study was 231 holdings by covering 27.2 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 | 194 | 11.94 | 43.9 | 0.06 |
| Medium | 32 | 10.2 | 37.5 | 0.32 |
| Large | 5 | 5.06 | 18.6 | 1.01 |
| Total | 231 | 27.2 | 100 | 0.12 |

Cost of cultivation

When Cost A is considered about 40.88 percent of cost constitutes to hired human labour, and farmyard manure and chemical fertilizers accounts to 16.87%. But the other expenses account a share of 25.68%.

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 | 59646 | 63336 | 46436 | 58572 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 1118 | 9357 | 10404 | 5935 |
| 4 | Seed / seedlings | 4652 | 4953 | 4148 | 4671 |
| 5 | Farmyard manure and chemical fertilizers | 32333 | 20585 | 12126 | 24168 |
| 6 | Plant protection | 2504 | 1760 | 2733 | 2268 |
| 7 | Land tax and irrigation cess | 296 | 329 | 106 | 273 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1944 | 378 | 217 | 1035 |
| 9 | Interest on working capital | 10025 | 9999 | 7585 | 9561 |
| 10 | Other expenses | 38166 | 35699 | 35825 | 36806 |
| 11 | Total cost 'A' (1-10) | 150684 | 146396 | 119580 | 143289 |
| 12 | Interest on fixed capital | 3678 | 10885 | 16099 | 8691 |
| 13 | Cost 'B1' (11+12) | 154362 | 157281 | 135679 | 151980 |
| 14 | Interest on land value | 315433 | 472013 | 176355 | 348267 |
| 15 | Cost 'B' (13+14) | 469795 | 629294 | 312034 | 500247 |
| 16 | Imputed value of household labour | 103305 | 45368 | 10814 | 64371 |
| 17 | Cost 'C' (15+16) | 573100 | 674662 | 322848 | 564618 |

Percentage Distribution of “COST A” per hectare of cowpea(Autumn) during 2019-20

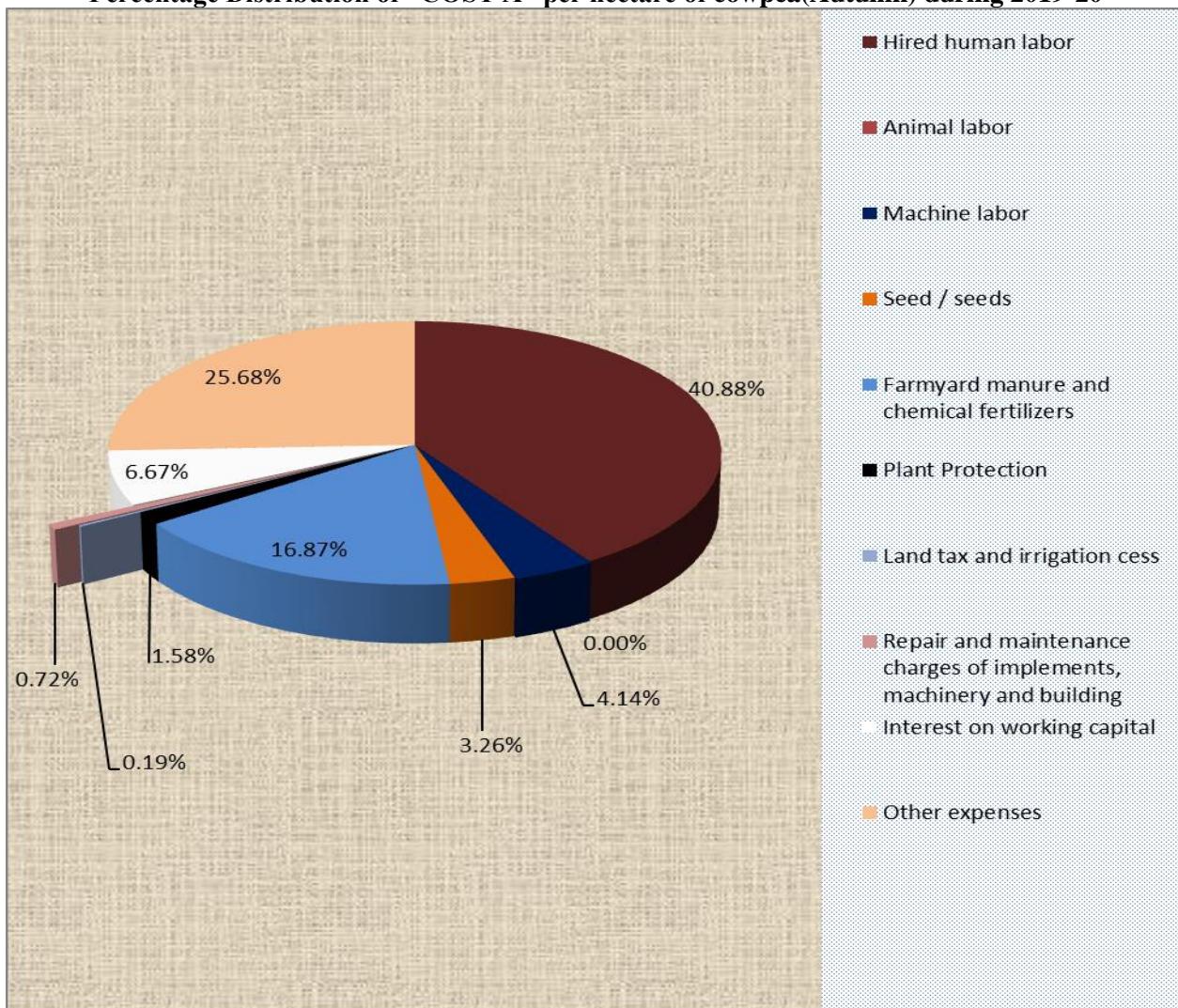


Table 76: Percentage of hired human labour hours to total human labour hours

| Sex | Holding size class | | | |
|--------------|--------------------|--------------|--------------|-------------|
| | Small | Medium | Large | All Sizes |
| Male | 34.07 | 31 | 46.25 | 34.41 |
| Female | 3.53 | 30.92 | 40.79 | 16.89 |
| Total | 37.6 | 61.92 | 87.04 | 51.3 |

In Cowpea(Autumn) cultivation 34.41% of total labour hours goes to males.

**Table:77 Cost of cultivation of Cowpea -Autumn per hectare(in Rs) during
2017-18, 2018-19&2019-20**

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 126803 | 121063 | 126091 | 124490 |
| | 2018-2019 | 142374 | 107244 | 124681 | 126006 |
| | 2019-2020 | 150684 | 146396 | 119580 | 143289 |
| Cost 'B' | 2017-2018 | 452670 | 441125 | 799801 | 494099 |
| | 2018-2019 | 559308 | 350183 | 666701 | 497994 |
| | 2019-2020 | 469795 | 629294 | 312034 | 500247 |
| Cost 'C' | 2017-2018 | 526858 | 483400 | 811291 | 547661 |
| | 2018-2019 | 651225 | 394992 | 749909 | 570513 |
| | 2019-2020 | 573100 | 674662 | 322848 | 564618 |

Table: 78 Value of product and by-product per hectare (in Rs.) of Cowpea-Autumn 2019-20

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 337214 | 354906 | 480000 | 370415 |

2.11.2 Cowpea –Winter during 2019-20

During 2019-20 Cost of cultivation study on Cowpea (winter) was conducted in 303 holdings by covering 33.21 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 | 246 | 16.33 | 49.17 | 0.07 |
| Medium | 55 | 15.06 | 45.35 | 0.27 |
| Large | 2 | 1.82 | 5.48 | 0.91 |
| Total | 303 | 33.21 | 100 | 0.11 |

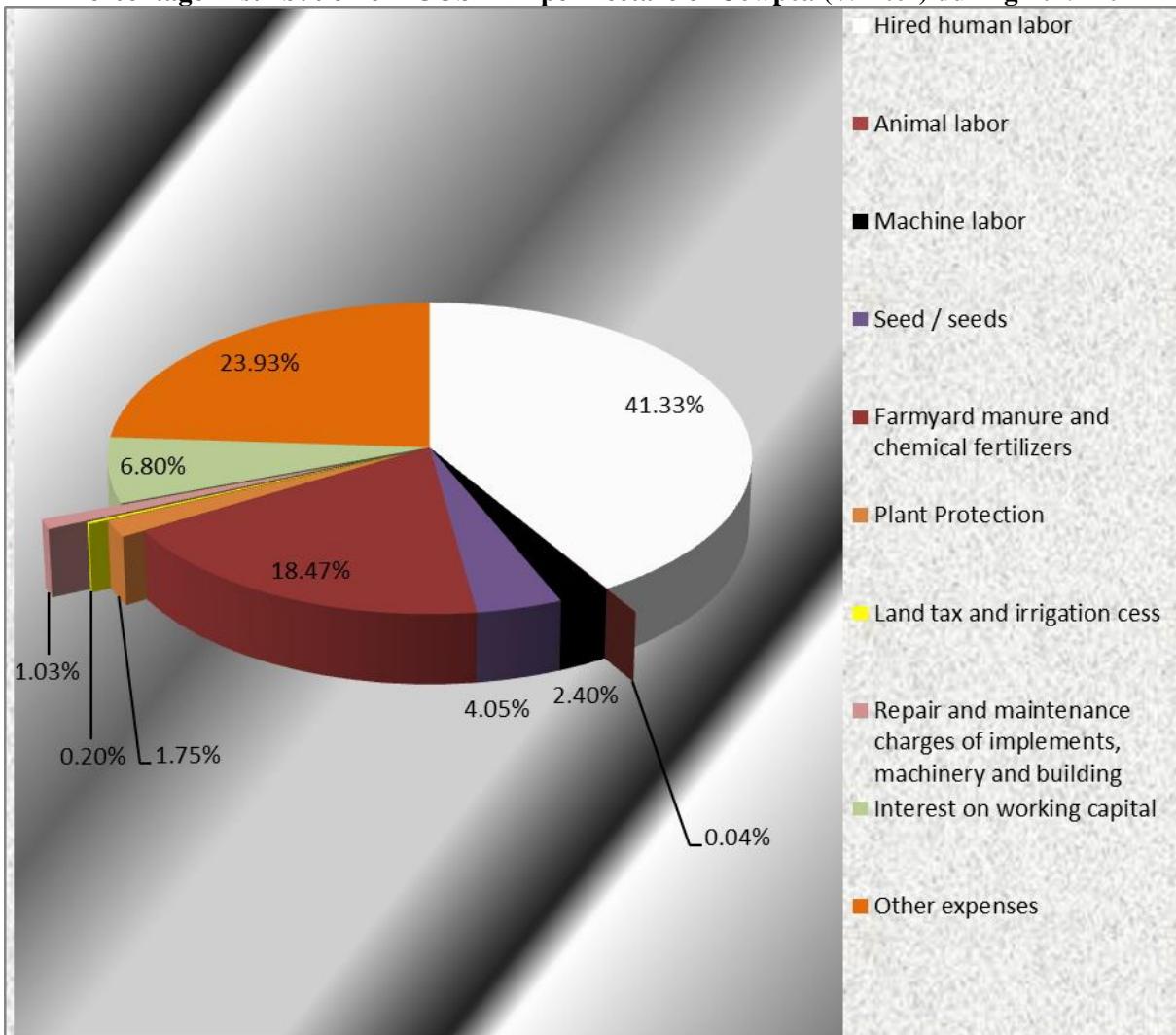
Cost of Cultivation

In Cost A, the major share of the cost component was hired human labour. It constitutes 41.33%.and farmyard manure and chemical fertilizers which accounted 18.46% respectively. Interest on working capital was 6.80%. The share of other expenses contributes 23.95 %. By considering the various cost component of Cowpea (winter) cultivation per hectare cost calculated as Rs.141440/-.

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 | 53276 | 65898 | 43088 | 58441 |
| 2 | Animal labour | | 113 | | 51 |
| 3 | Machine labour | 780 | 5743 | 7437 | 3396 |
| 4 | Seed / seedlings | 5822 | 5766 | 4594 | 5729 |
| 5 | Farmyard manure and chemical fertilizers | 29851 | 23839 | 11352 | 26110 |
| 6 | Plant protection | 2337 | 2482 | 3568 | 2470 |
| 7 | Land tax and irrigation Cess | 300 | 287 | | 278 |
| 8 | Repair and maintenance charges of implements, machinery and building | 2081 | 967 | | 1462 |
| 9 | Interest on working capital | 9207 | 10384 | 7004 | 9620 |
| 10 | Other expenses | 33576 | 32013 | 52090 | 33883 |
| 11 | Total Cost ‘A’ (1-10) | 137230 | 147492 | 129133 | 141440 |
| 12 | Interest on fixed capital | 12592 | 9339 | 31396 | 12148 |
| 13 | Cost ‘B1’ (11+12) | 149822 | 156831 | 160529 | 153588 |
| 14 | Interest on land value | 250329 | 298104 | 72227 | 262224 |
| 15 | Cost ‘B’ (13+14) | 400151 | 454935 | 232756 | 415812 |
| 16 | Imputed value of household labour | 108207 | 65762 | 4391 | 83263 |
| 17 | Cost ‘C’ (15+16) | 508358 | 520697 | 237147 | 499075 |

Percentage Distribution of “COST A” per hectare of Cowpea (Winter) during 2019-20



Sex wise work participation in hired human labours for Cowpea(winter) cultivation reveals that 13.15% of work shared by Female whereas 29.41% 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 | 28.17 | 31.83 | 17.27 | 29.41 |
| Female | 4.87 | 21.73 | 47.98 | 13.15 |
| Total | 33.04 | 53.56 | 65.25 | 42.56 |

Table:82 Cost of cultivation of Cowpea -Winter per hectare(in Rs) during 2017-18, 2018-19 & 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 126240 | 123683 | 129959 | 126257 |
| | 2018-2019 | 144045 | 148889 | 146553 | 146339 |
| | 2019-2020 | 137230 | 147492 | 129133 | 141440 |
| Cost 'B' | 2017-2018 | 435567 | 380532 | 274779 | 407907 |
| | 2018-2019 | 422377 | 378768 | 341649 | 393739 |
| | 2019-2020 | 400151 | 454935 | 232756 | 415812 |
| Cost 'C' | 2017-2018 | 533889 | 435125 | 311311 | 487444 |
| | 2018-2019 | 523916 | 442065 | 386628 | 472119 |
| | 2019-2020 | 508358 | 520697 | 237147 | 499075 |

Output

Table: 83 - Value of Product and By product per hectare(in Rs)of Cowpea -Winter 2019-20

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 326292 | 310327 | 557833 | 331754 |

2.11.3 Cowpea -summer (Puncha) during 2019-20

For the cost of cultivation study on Cowpea (summer) during 2019-20 the total number of holdings selected was 246. 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 | 223 | 13.79 | 66.08 | 0.06 |
| Medium | 22 | 6.28 | 30.09 | 0.29 |
| Large | 1 | 0.81 | 3.88 | 0.81 |
| Total | 246 | 20.87 | 100 | 0.08 |

The total area under cultivation in the selected sample holdings covers to 20.87 hectares and the average size of a holding is 0.08 hectare.

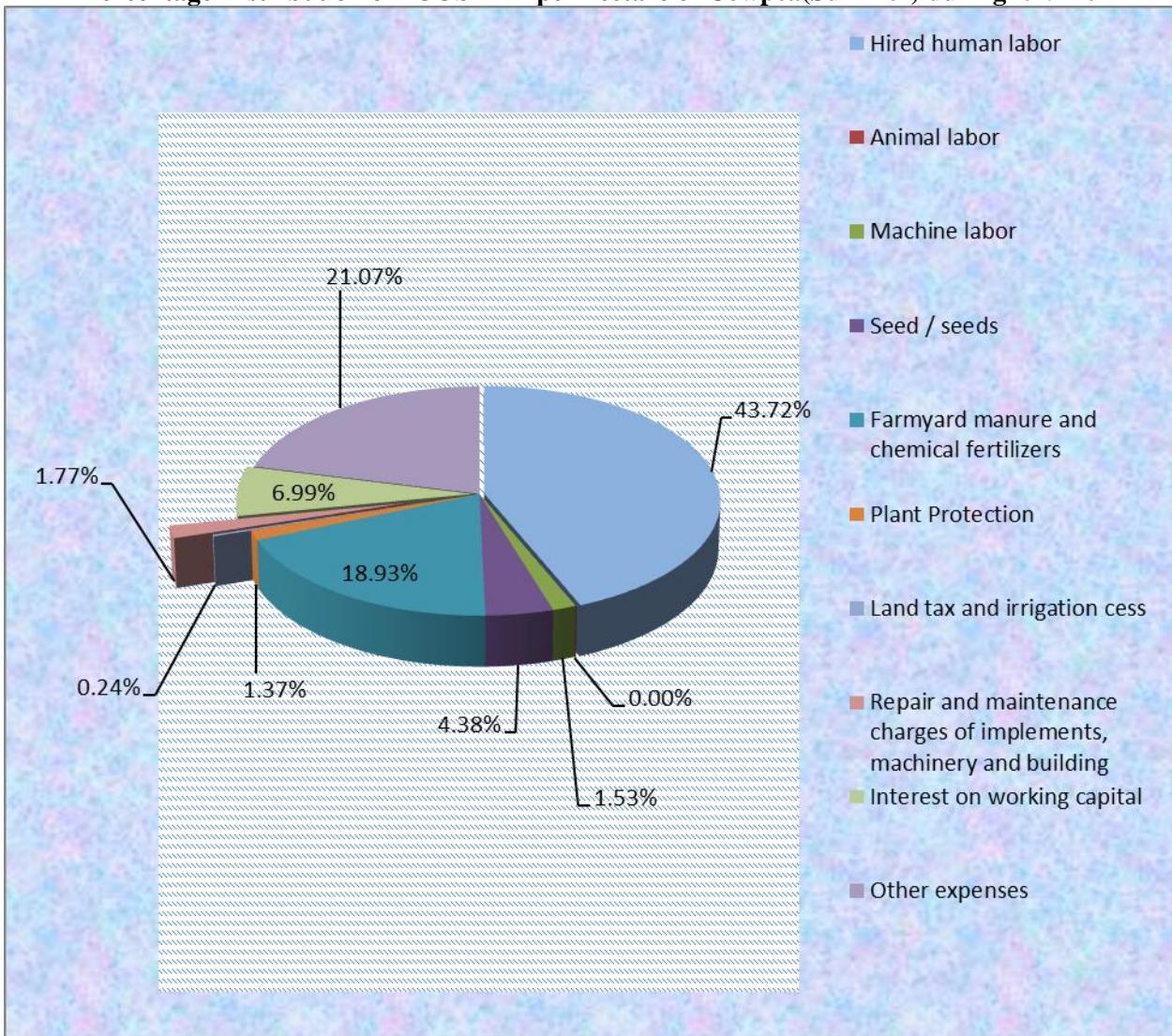
Cost of Cultivation

Cost of cultivation of Cowpea (summer) per hectare is estimated as Rs.135798/- when cost ‘A’ is considered. Cost incurred for hired human labour is 43.72% of the total cost and farmyard manure and chemical fertilizer is 18.93% of the total cost, but the other expenses share is 21.07%

Table 85: Cost of Cultivation per hectare(in Rs.) of Cowpea (Summer) during 2019-2020

| Sl No | Components | Holding size Class | | | |
|-----------|--|--------------------|---------------|---------------|---------------|
| | | Small | Medium | Large | All Size |
| 1 | Hired human labour | 57116 | 69438 | 19760 | 59371 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | 2132 | 2231 | | 2079 |
| 4 | Seed / seedlings | 5434 | 6652 | 9262 | 5949 |
| 5 | Farmyard manure and chemical fertilizers | 29766 | 17966 | 16401 | 25700 |
| 6 | Plant protection | 1901 | 1795 | 1556 | 1856 |
| 7 | Land tax and irrigation Cess | 336 | 274 | 494 | 323 |
| 8 | Repair and maintenance charges of implements, machinery and building | 2794 | 1545 | 2470 | 2406 |
| 9 | Interest on working capital | 9635 | 9808 | 4698 | 9495 |
| 10 | Other expenses | 30864 | 25912 | 11362 | 28619 |
| 11 | Total Cost ‘A’ (1-10) | 139977 | 135620 | 66003 | 135798 |
| 12 | Interest on fixed capital | 11084 | 3888 | 2032 | 8571 |
| 13 | Cost ‘B1’ (11+12) | 151061 | 139508 | 68035 | 144369 |
| 14 | Interest on land value | 212671 | 143974 | 60392 | 186113 |
| 15 | Cost ‘B’ (13+14) | 363733 | 283483 | 128426 | 330482 |
| 16 | Imputed value of household labour | 132223 | 84618 | 79781 | 115878 |
| 17 | Cost ‘C’ (15+16) | 495956 | 368101 | 208207 | 446360 |

Percentage Distribution of “COST A” per hectare of Cowpea(Summer) during 2019-20



In Cowpea summer cultivation hired male labour participation accounted as 27.94% 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 | 27.61 | 30.27 | 13.16 | 27.94 |
| Female | 2.23 | 18.09 | 7.04 | 5.78 |
| Total | 29.84 | 48.36 | 20.2 | 33.72 |

Table 87:Cost of cultivation of Cowpea -Summer per hectare(in Rs) during 2017-18, 2018-19 & 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|-----------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 129069 | 123559 | 50901 | 122157 |
| | 2018-2019 | 146448 | 150911 | 156446 | 149400 |
| | 2019-2020 | 139977 | 135620 | 66003 | 135798 |
| Cost 'B' | 2017-2018 | 400140 | 431401 | 228966 | 401750 |
| | 2018-2019 | 399475 | 485290 | 554811 | 452192 |
| | 2019-2020 | 363733 | 283483 | 128426 | 330482 |
| Cost 'C' | 2017-2018 | 496355 | 499028 | 284955 | 484456 |
| | 2018-2019 | 502598 | 562754 | 648621 | 543628 |
| | 2019-2020 | 495956 | 368101 | 208207 | 446360 |

Table 88: Value of Product and by product per hectare(in Rs) of Cowpea Summer during 2019-20

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 331335 | 240823 | 129428 | 296293 |

2.12 Cardamom during 2019-20

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 | 7 | 0.89 | 4.84 | 0.13 |
| Medium | 14 | 4.94 | 26.88 | 0.35 |
| Large | 8 | 12.55 | 68.28 | 1.57 |
| Total | 29 | 18.38 | 100 | 0.63 |

For the study 29 sample holdings were selected and the total area of crop in the selected area was 18.38 hectare. The average size per holding was 0.63 hectare.

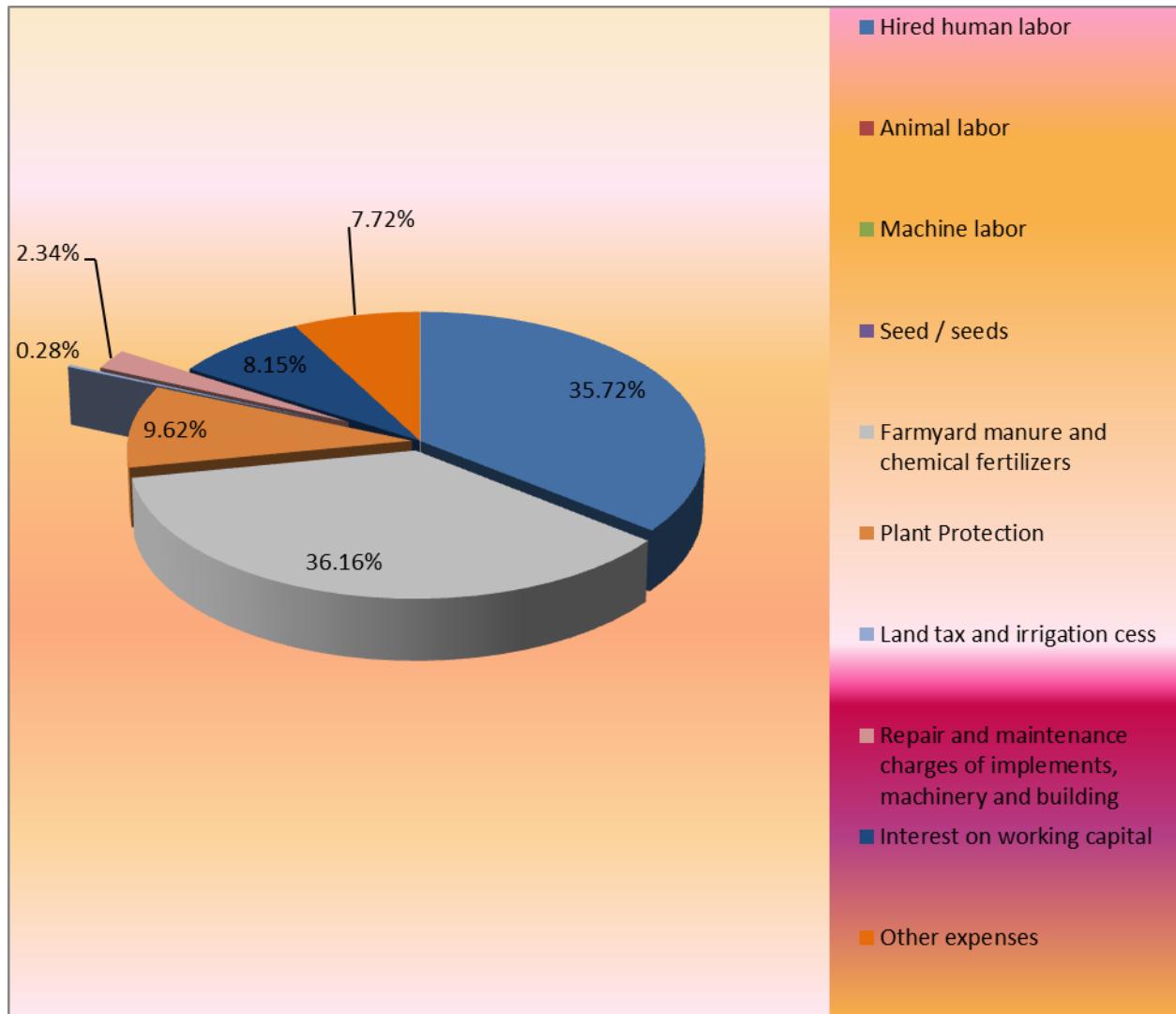
Cost of Cultivation

The different cost components of Cardamom cultivation is given below: Per hectare cost for cultivating cardamom is estimated as Rs160436/- 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 | 40486 | 77220 | 50675 | 57314 |
| 2 | Animal labour | | | | |
| 3 | Machine labour | | | | |
| 4 | Seed / seedlings | | | | |
| 5 | Farmyard manure and chemical fertilizers | 36149 | 38353 | 67296 | 58009 |
| 6 | Plant protection | 19884 | 31938 | 8633 | 15441 |
| 7 | Land tax and irrigation Cess | 320 | 364 | 494 | 451 |
| 8 | Repair and maintenance charges of implements, machinery and building | 5838 | 6054 | 2701 | 3754 |
| 9 | Interest on working capital | 9652 | 14751 | 12660 | 13076 |
| 10 | Other expenses | 24139 | 26472 | 6016 | 12391 |
| 11 | Total Cost 'A' (1-10) | 136468 | 195152 | 148475 | 160436 |
| 12 | Interest on fixed capital | 44342 | 12169 | 4520 | 8506 |
| 13 | Cost 'B1' (11+12) | 180810 | 207321 | 152995 | 168942 |
| 14 | Interest on land value | 160404 | 120779 | 84695 | 98060 |
| 15 | Cost 'B' (13+14) | 341214 | 328100 | 237690 | 267002 |
| 16 | Imputed value of household labour | 123612 | 110627 | 57360 | 74884 |
| 17 | Cost 'C' (15+16) | 464826 | 438727 | 295050 | 341886 |

Percentage Distribution of “COST A” per hectare of Cardamom during 2019-20



When Cost A is considering, 35.72% comes under hired human labour and 36.16% 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 28.32%.

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

| Sex | Holding size class | | | |
|--------------|--------------------|--------------|-------------|--------------|
| | Small | Medium | Large | All Sizes |
| Male | 15.52 | 15.79 | 18.59 | 17.43 |
| Female | 8.96 | 24.24 | 27.51 | 28.32 |
| Total | 24.48 | 40.03 | 46.1 | 45.75 |

Table:92 Cost of cultivation of Cardamom per hectare(in Rs) during 2017-18, 2018-19& 2019-20

| Concept of cost | Year | Holding Size class | | | |
|-----------------|------------------|--------------------|--------|--------|----------|
| | | Small | Medium | Large | All size |
| Cost 'A' | 2017-2018 | 143117 | 156127 | 124997 | 137342 |
| | 2018-2019 | 146133 | 187844 | 135318 | 158512 |
| | 2019-2020 | 136468 | 195152 | 148475 | 160436 |
| Cost 'B' | 2017-2018 | 156651 | 160221 | 126612 | 141055 |
| | 2018-2019 | 286079 | 309779 | 242145 | 274857 |
| | 2019-2020 | 341214 | 328100 | 237690 | 267002 |
| Cost 'C' | 2017-2018 | 369467 | 407578 | 209444 | 292774 |
| | 2018-2019 | 404413 | 412392 | 336952 | 375186 |
| | 2019-2020 | 464826 | 438727 | 295050 | 341886 |

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

The estimated value of output per hectare is Rs.460312/-

| Holding Size Class | | | |
|--------------------|--------|--------|-----------|
| Small | Medium | Large | All Sizes |
| 526335 | 530848 | 427868 | 460312 |

Sample size, area under each crop and average size of each holding selected for cost of cultivation survey 2019-2020 is given below.

Table 94: Area, Sample size and Average Area per holding of some crops during the year 2019-2020

| Sl. No. | Name of Crop | Sample Size | Area under the crop in the sample (ha) | Average Area per holding (ha) |
|---------|---------------------|-------------|--|-------------------------------|
| 1 | Paddy Autumn | 447 | 390.97 | 0.87 |
| 2 | Paddy Winter | 524 | 531.06 | 1.01 |
| 3 | Paddy Summer | 458 | 516.15 | 1.13 |
| 4 | Coconut | 760 | 310.61 | 0.41 |
| 5 | Arecanut | 754 | 103.04 | 0.14 |
| 6 | Tapioca | 555 | 112.04 | 0.2 |
| 7 | Banana | 548 | 133.22 | 0.24 |
| 8 | Pepper | 537 | 58.26 | 0.11 |
| 9 | Ginger | 436 | 33.66 | 0.08 |
| 10 | Turmeric | 475 | 28.89 | 0.06 |
| 11 | Pineapple | 213 | 371.5 | 1.74 |
| 12 | Bitter gourd Autumn | 224 | 35.15 | 0.16 |
| 13 | Bitter gourd Winter | 265 | 38.02 | 0.14 |
| 14 | Bitter gourd Summer | 190 | 13.66 | 0.07 |
| 15 | Cowpea Autumn | 231 | 27.2 | 0.12 |
| 16 | Cowpea Winter | 303 | 33.21 | 0.11 |
| 17 | Cowpea Summer | 246 | 20.87 | 0.08 |
| 18 | Cardamom | 29 | 18.38 | 0.63 |

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 95: COST A, B AND C OF SOME OF CROPS (PER HECTRE) DURING THE YEAR 2019-2020

| Sl.no | Name of Crop | Cost A ₹ | Cost B ₹ | Cost C ₹ |
|-------|---------------------|-------------|-------------|-------------|
| 1 | Paddy Autumn | 67722 | 227413 | 233790 |
| 2 | Paddy Winter | 74401 | 241021 | 248666 |
| 3 | Paddy Summer | 68703 | 192252 | 200344 |
| 4 | Coconut | 77584 | 528621 | 538493 |
| 5 | Arecanut | 103454 | 549618 | 570114 |
| 6 | Tapioca | 121258 | 477608 | 508015 |
| 7 | Banana | 219792 | 533209 | 575733 |
| 8 | Pepper | 82583 | 426577 | 453850 |
| 9 | Ginger | 204188 | 464225 | 510544 |
| 10 | Turmeric | 129665 | 480656 | 540011 |
| 11 | Pineapple | 245327 | 706782 | 722762 |
| 12 | Bitter gourd Autumn | 145821 | 447524 | 508772 |
| 13 | Bitter gourd Winter | 144796 | 376233 | 440969 |
| 14 | Bitter gourd Summer | 156830 | 386678 | 507216 |
| 15 | Cowpea Autumn | 143289 | 500247 | 564618 |
| 16 | Cowpea Winter | 141440 | 415812 | 499075 |
| 17 | Cowpea Summer | 135798 | 330482 | 446360 |
| 18 | Cardamom | 160436 | 267002 | 341886 |

Cost of Cultivation study 2018-2019 revealed the three categories of cost including the components thereon 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 96: Cost of cultivation per hectare (in Rs) during the year 2019-2020

| 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 | 27536 | 32158 | 25903 | 48264 | 57267 | 61337 | 83993 | 52640 | 73666 |
| 2 | Animal labour | 12 | 23 | 5 | | | | 2 | | |
| 3 | Machine labour | 8280 | 8687 | 8484 | 743 | 1234 | 4847 | 3188 | 601 | 2494 |
| 4 | Seed /seedlings | 3818 | 3205 | 3600 | 715 | 400 | 7641 | 28575 | 1210 | 63120 |
| 5 | Farmyard manure and chemical fertilizers | 7591 | 7411 | 7735 | 16860 | 30129 | 22752 | 51777 | 16311 | 28677 |
| 6 | Plant Protection | 2493 | 1492 | 2602 | | | 341 | 1558 | 639 | 1434 |
| 7 | Land tax and irrigation cess | 210 | 191 | 574 | 392 | 584 | 227 | 281 | 363 | 245 |
| 8 | Repair and maintenance charges of implements, machinery and building | 179 | 186 | 238 | 382 | 1117 | 533 | 563 | 1056 | 839 |
| 9 | Interest on working capital | 4973 | 5297 | 4833 | 6658 | 8903 | 9692 | 16909 | 7140 | 16939 |
| 10 | Other expenses | 12630 | 15751 | 14729 | 3570 | 3820 | 13888 | 32946 | 2623 | 16774 |
| 11 | Total cost 'A'(1-10) | 67722 | 74401 | 68703 | 77584 | 103454 | 121258 | 219792 | 82583 | 204188 |
| 12 | Interest on fixed capital | 1648 | 2335 | 1941 | 5136 | 10543 | 2333 | 5666 | 9942 | 5486 |
| 13 | Cost 'B1'(11+12) | 69370 | 76736 | 70644 | 82720 | 113997 | 123591 | 225458 | 92525 | 209674 |
| 14 | Interest on land value | 158043 | 164285 | 121608 | 445901 | 435621 | 354017 | 307751 | 334052 | 254551 |
| 15 | Cost 'B'(13+14) | 227413 | 241021 | 192252 | 528621 | 549618 | 477608 | 533209 | 426577 | 464225 |
| 16 | Inputed value of household labour | 6377 | 7645 | 8092 | 9872 | 20496 | 30407 | 42524 | 27273 | 46319 |
| 17 | Cost 'C'(15+16)) | 233790 | 248666 | 200344 | 538493 | 570114 | 508015 | 575733 | 453850 | 510544 |
| 18 | Value of Output received (Rs.Ha) | 101978 | 119186 | 129568 | 161620 | 260726 | 337498 | 525063 | 192577 | 599480 |

Contd.. Table 96:

Table 96: Cost of cultivation per hectare (in Rs) of some crops during the year 2019-2020

| Sl.no | components | Turmeric | Pineapple | Bitter gourd | | | Cowpea | | | Cardamo m |
|-------|--|----------|-----------|--------------|--------|--------|--------|--------|--------|-----------|
| | | | | Autumn | Winter | Summer | Autumn | Winter | Summer | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 1 | Hired human labour | 60674 | 47719 | 53424 | 54839 | 58825 | 58572 | 58441 | 59371 | 57314 |
| 2 | Animal labour | | | | | | | 51 | | |
| 3 | Machine labour | 2426 | 3397 | 5318 | 2311 | 731 | 5935 | 3396 | 2079 | |
| 4 | Seed /seedlings | 21697 | 89838 | 8551 | 8608 | 6593 | 4671 | 5729 | 5949 | |
| 5 | Farmyard manure and chemical fertilizers | 24217 | 33492 | 25081 | 3690 | 30831 | 24168 | 26110 | 25700 | 58009 |
| 6 | Plant Protection | 240 | 5649 | 2857 | 26300 | 2767 | 2268 | 2470 | 1856 | 15441 |
| 7 | Land tax and irrigation cess | 300 | 105 | 1121 | 186 | 210 | 273 | 278 | 323 | 451 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1040 | 148 | 823 | 895 | 2406 | 1035 | 1462 | 2406 | 3754 |
| 9 | Interest on working capital | 10925 | 18010 | 9523 | 9575 | 9975 | 9561 | 9620 | 9495 | 13076 |
| 10 | Other expenses | 8146 | 46969 | 39123 | 38392 | 44492 | 36806 | 33883 | 28619 | 12391 |
| 11 | Total cost 'A'(1-10) | 129665 | 245327 | 145821 | 144796 | 156830 | 143289 | 141440 | 135798 | 160436 |
| 12 | Interest on fixed capital | 2687 | 536 | 7092 | 9720 | 9320 | 8691 | 12148 | 8571 | 8506 |
| 13 | Cost 'B1'(11+12) | 132352 | 245863 | 152913 | 154516 | 166150 | 151980 | 153588 | 144369 | 168942 |
| 14 | Interest on land value | 348304 | 460919 | 294611 | 221717 | 220528 | 348267 | 262224 | 186113 | 98060 |
| 15 | Cost 'B'(13+14) | 480656 | 706782 | 447524 | 376233 | 386678 | 500247 | 415812 | 330482 | 267002 |
| 16 | Inputed value of household labour | 59355 | 15980 | 61248 | 64736 | 120538 | 64371 | 83263 | 115878 | 74884 |
| 17 | Cost 'C'(15+16)) | 540011 | 722762 | 508772 | 440969 | 507216 | 564618 | 499075 | 446360 | 341886 |
| 18 | Value of Output received (Rs.Ha) | 301175 | 364160 | 407637 | 412135 | 350825 | 370415 | 331754 | 296293 | 460312 |

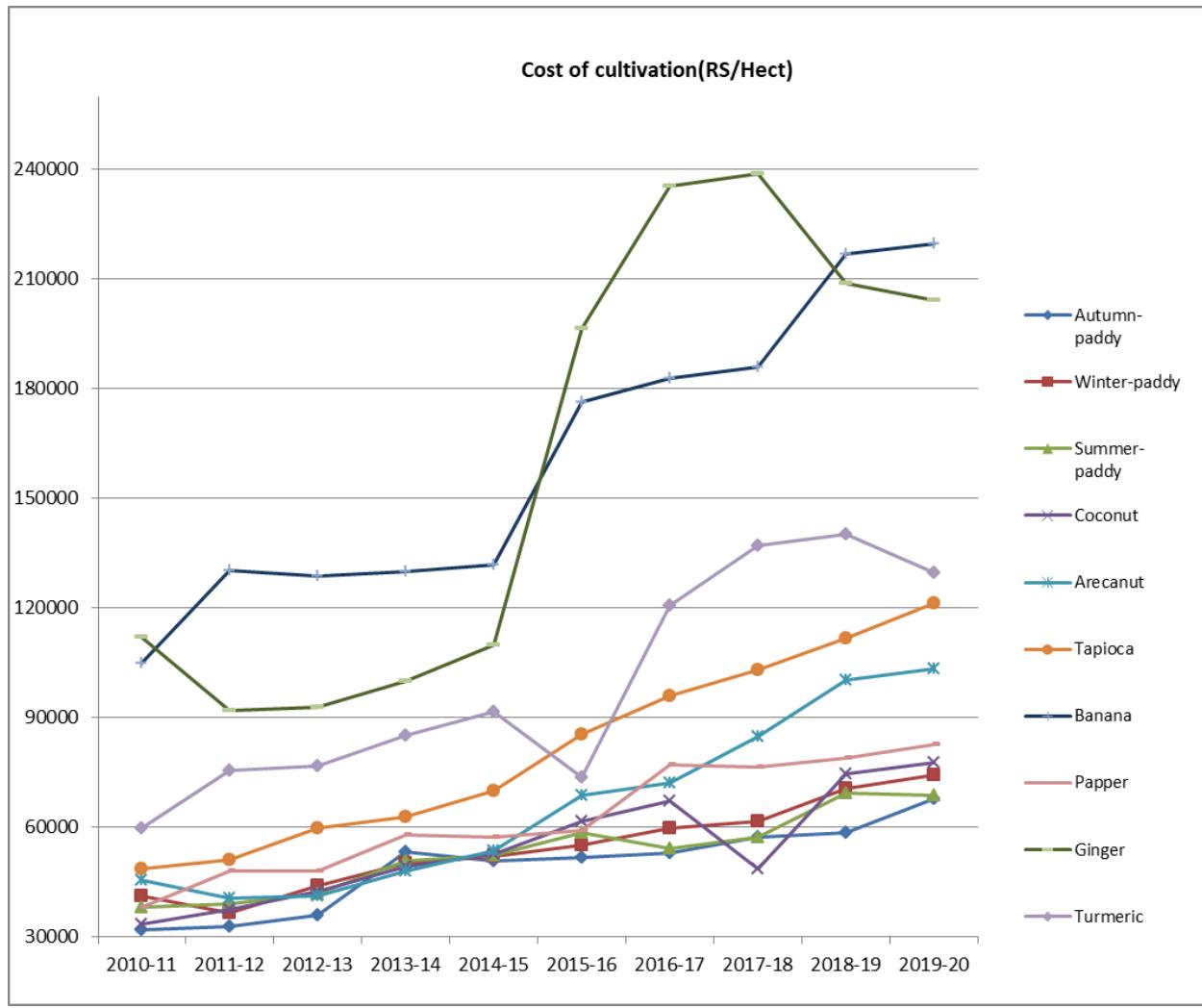
The value of output including both main product and by SWproduct of each crop included in the survey during 2019-2020 is shown below.

Table 97: Value of Output per hectare (In Rs.) of some crops during the year 2019-2020

| Sl.no | Name of Crop | Value of Output In Rupees |
|-------|---------------------|------------------------------|
| 1 | Paddy Autumn | 101978 |
| 2 | Paddy Winter | 119186 |
| 3 | Paddy Summer | 129568 |
| 4 | Coconut | 161620 |
| 5 | Arecanut | 260726 |
| 6 | Tapioca | 337498 |
| 7 | Banana | 525063 |
| 8 | Pepper | 192577 |
| 9 | Ginger | 599480 |
| 10 | Turmeric | 301175 |
| 11 | Pineapple | 364160 |
| 12 | Bitter gourd Autumn | 407637 |
| 13 | Bitter gourd Winter | 412135 |
| 14 | Bitter gourd Summer | 350825 |
| 15 | Cowpea Autumn | 370415 |
| 16 | Cowpea Winter | 331754 |
| 17 | Cowpea Summer | 296293 |
| 18 | Cardamom | 460312 |

Comparison table for the cost of cultivation cost A of crops such as paddy(3season), coconut,arecanut, tapioca, banana, pepper,ginger,turmeric from 2010-2011 to 2019-2020 is given in the table below. Cost of cultivation of crops during 2010-11 has more or less doubled during 2019-20.

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



ANNEXURE

A1.1 District wise Area and number of holding under Autumn Paddy during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 45 | 17.06 | 4.36 | 0.38 |
| 2 | Kollam | 46 | 46.83 | 11.98 | 1.02 |
| 3 | Pathanamthitta | 20 | 13.25 | 3.39 | 0.66 |
| 4 | Alappuzha | 50 | 75.38 | 19.29 | 1.51 |
| 5 | Kottayam | 30 | 42.55 | 10.89 | 1.42 |
| 6 | Idukki | 15 | 4.6 | 1.18 | 0.31 |
| 7 | Ernakulam | 45 | 27.11 | 6.94 | 0.6 |
| 8 | Thrissur | 45 | 63.43 | 16.23 | 1.41 |
| 9 | Palakkad | 16 | 41.06 | 10.5 | 2.57 |
| 10 | Malappuram | 45 | 29.02 | 7.42 | 0.64 |
| 11 | Kozhikkode | 30 | 6.98 | 1.79 | 0.23 |
| 12 | Wayanad | | | | |
| 13 | Kannur | 30 | 9.35 | 2.39 | 0.31 |
| 14 | Kasaragod | 30 | 14.26 | 3.65 | 0.48 |
| | State | 447 | 390.97 | 100 | 0.87 |

A1.2 District wise Area and number of holding under Winter Paddy during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 45 | 18.48 | 3.48 | 0.41 |
| 2 | Kollam | 60 | 64.25 | 12.1 | 1.07 |
| 3 | Pathanamthitta | 36 | 82.01 | 15.44 | 2.28 |
| 4 | Alappuzha | 75 | 91.5 | 17.23 | 1.22 |
| 5 | Kottayam | 30 | 32.13 | 6.05 | 1.07 |
| 6 | Idulkki | 15 | 4.51 | 0.85 | 0.3 |
| 7 | Eranakulam | 38 | 19.42 | 3.66 | 0.51 |
| 8 | Thrissur | 45 | 66.58 | 12.54 | 1.48 |
| 9 | Palakkad | 30 | 34.43 | 6.48 | 1.15 |
| 10 | Malappuram | 45 | 62.11 | 11.7 | 1.38 |
| 11 | Kozhikkode | 30 | 11.56 | 2.18 | 0.39 |
| 12 | Wayanad | 15 | 20.38 | 3.84 | 1.36 |
| 13 | Kannur | 30 | 15.26 | 2.87 | 0.51 |
| 14 | Kasaragod | 30 | 8.43 | 1.59 | 0.28 |
| | State | 524 | 531.06 | 100 | 1.01 |

A1.3 District wise Area and number of holding under Summer Paddy during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 39 | 9.56 | 1.85 | 0.25 |
| 2 | Kollam | 32 | 15.9 | 3.08 | 0.5 |
| 3 | Pathanamthitta | 60 | 109.61 | 21.24 | 1.83 |
| 4 | Alappuzha | 70 | 106.58 | 20.65 | 1.52 |
| 5 | Kottayam | 45 | 105 | 20.34 | 2.33 |
| 6 | Idukki | 4 | 2.28 | 0.44 | 0.57 |
| 7 | Eranakulam | 20 | 8.97 | 1.74 | 0.45 |
| 8 | Thrissur | 45 | 70.38 | 13.64 | 1.56 |
| 9 | Palakkad | 22 | 16.17 | 3.13 | 0.74 |
| 10 | Malappuram | 43 | 38.33 | 7.43 | 0.89 |
| 11 | Kozhikkode | 30 | 9.91 | 1.92 | 0.33 |
| 12 | Wayanad | 15 | 6.66 | 1.29 | 0.44 |
| 13 | Kannur | 3 | 0.87 | 0.17 | 0.29 |
| 14 | Kasaragod | 30 | 15.91 | 3.08 | 0.53 |
| | State | 458 | 516.15 | 100 | 1.13 |

A1.4 District wise Area and number of holding under Coconut during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 60 | 18.74 | 6.03 | 0.31 |
| 2 | Kollam | 80 | 20.22 | 6.51 | 0.25 |
| 3 | Pathanamthitta | 80 | 20.93 | 6.74 | 0.26 |
| 4 | Alappuzha | 100 | 30.67 | 9.87 | 0.31 |
| 5 | Kottayam | 60 | 20.64 | 6.64 | 0.34 |
| 6 | Idulkki | 20 | 6.47 | 2.08 | 0.32 |
| 7 | Eranakulam | 60 | 20.88 | 6.72 | 0.35 |
| 8 | Thrissur | 60 | 30.3 | 9.75 | 0.51 |
| 9 | Palakkad | 40 | 28.1 | 9.05 | 0.7 |
| 10 | Malappuram | 60 | 43.59 | 14.03 | 0.73 |
| 11 | Kozhikkode | 40 | 20.37 | 6.56 | 0.51 |
| 12 | Wayanad | 20 | 7.73 | 2.49 | 0.39 |
| 13 | Kannur | 40 | 19.42 | 6.25 | 0.49 |
| 14 | Kasaragod | 40 | 22.57 | 7.27 | 0.56 |
| | State | 760 | 310.61 | 100 | 0.41 |

A1.5 District wise Area and number of holding under Areca nut during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 60 | 5.79 | 5.62 | 0.1 |
| 2 | Kollam | 80 | 2.91 | 2.82 | 0.04 |
| 3 | Pathanamthitta | 80 | 3.74 | 3.63 | 0.05 |
| 4 | Alappuzha | 94 | 4.05 | 3.93 | 0.04 |
| 5 | Kottayam | 60 | 2.36 | 2.29 | 0.04 |
| 6 | Idukki | 20 | 1.76 | 1.71 | 0.09 |
| 7 | Eranakulam | 60 | 4.15 | 4.03 | 0.07 |
| 8 | Thrissur | 60 | 7.19 | 6.98 | 0.12 |
| 9 | Palakkad | 40 | 10.41 | 10.1 | 0.26 |
| 10 | Malappuram | 60 | 24.68 | 23.95 | 0.41 |
| 11 | Kozhikkode | 40 | 4.85 | 4.71 | 0.12 |
| 12 | Wayanad | 20 | 9.9 | 9.61 | 0.5 |
| 13 | Kannur | 40 | 5.89 | 5.72 | 0.15 |
| 14 | Kasaragod | 40 | 15.35 | 14.9 | 0.38 |
| | State | 754 | 103.04 | 100 | 0.14 |

A1.6 District wise Area and number of holding under Tapioca during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 45 | 8.75 | 7.81 | 0.19 |
| 2 | Kollam | 60 | 6.6 | 5.89 | 0.11 |
| 3 | Pathanamthitta | 60 | 13.54 | 12.08 | 0.23 |
| 4 | Alappuzha | 66 | 5.42 | 4.84 | 0.08 |
| 5 | Kottayam | 45 | 13.53 | 12.08 | 0.3 |
| 6 | Idukki | 15 | 3.59 | 3.2 | 0.24 |
| 7 | Eranakulam | 42 | 9.28 | 8.28 | 0.22 |
| 8 | Thrissur | 45 | 17.74 | 15.83 | 0.39 |
| 9 | Palakkad | 30 | 3.9 | 3.48 | 0.13 |
| 10 | Malappuram | 45 | 16.49 | 14.72 | 0.37 |
| 11 | Kozhikkode | 30 | 4.22 | 3.77 | 0.14 |
| 12 | Wayanad | 15 | 2.85 | 2.54 | 0.19 |
| 13 | Kannur | 30 | 3.15 | 2.81 | 0.11 |
| 14 | Kasaragod | 27 | 2.98 | 2.66 | 0.11 |
| | State | 555 | 112.04 | 100 | 0.2 |

A1.7 District wise Area and number of holding under Banana during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 45 | 9.57 | 7.17 | 0.21 |
| 2 | Kollam | 60 | 9.36 | 7.01 | 0.16 |
| 3 | Pathanamthitta | 60 | 11.85 | 8.87 | 0.2 |
| 4 | Alappuzha | 54 | 7.19 | 5.38 | 0.13 |
| 5 | Kottayam | 45 | 10.31 | 7.72 | 0.23 |
| 6 | Idukki | 15 | 3.88 | 2.91 | 0.26 |
| 7 | Eranakulam | 45 | 13.47 | 10.09 | 0.3 |
| 8 | Thrissur | 45 | 14.62 | 10.95 | 0.32 |
| 9 | Palakkad | 30 | 16.09 | 12.05 | 0.54 |
| 10 | Malappuram | 45 | 13.92 | 10.42 | 0.31 |
| 11 | Kozhikkode | 30 | 9.81 | 7.35 | 0.33 |
| 12 | Wayanad | 15 | 2.67 | 2 | 0.18 |
| 13 | Kannur | 30 | 6.45 | 4.83 | 0.22 |
| 14 | Kasaragod | 30 | 4.33 | 3.24 | 0.14 |
| | State | 549 | 133.53 | 100 | 0.24 |

A1.8 District wise Area and number of holding under Pepper during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 45 | 5.8 | 9.96 | 0.13 |
| 2 | Kollam | 60 | 3 | 5.15 | 0.05 |
| 3 | Pathanamthitta | 60 | 10.06 | 17.27 | 0.17 |
| 4 | Alappuzha | 45 | 1.54 | 2.64 | 0.03 |
| 5 | Kottayam | 45 | 4.71 | 8.08 | 0.1 |
| 6 | Idukki | 15 | 1.58 | 2.71 | 0.11 |
| 7 | Eranakulam | 42 | 2 | 3.43 | 0.05 |
| 8 | Thrissur | 45 | 2.86 | 4.91 | 0.06 |
| 9 | Palakkad | 30 | 5.19 | 8.91 | 0.17 |
| 10 | Malappuram | 45 | 7.22 | 12.39 | 0.16 |
| 11 | Kozhikkode | 30 | 1.77 | 3.04 | 0.06 |
| 12 | Wayanad | 15 | 6.11 | 10.49 | 0.41 |
| 13 | Kannur | 30 | 2.99 | 5.13 | 0.1 |
| 14 | Kasaragod | 30 | 3.41 | 5.85 | 0.11 |
| | State | 537 | 58.26 | 100 | 0.11 |

A1.9 District wise Area and number of holding under Ginger during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 42 | 2.2 | 6.54 | 0.05 |
| 2 | Kollam | 60 | 2.21 | 6.57 | 0.04 |
| 3 | Pathanamthitta | 60 | 3.28 | 9.74 | 0.05 |
| 4 | Alappuzha | 25 | 0.77 | 2.29 | 0.03 |
| 5 | Kottayam | 45 | 2.69 | 7.99 | 0.06 |
| 6 | Idukki | 13 | 0.74 | 2.2 | 0.06 |
| 7 | Eranakulam | 33 | 1.83 | 5.44 | 0.06 |
| 8 | Thrissur | 45 | 2.43 | 7.22 | 0.05 |
| 9 | Palakkad | 19 | 7.54 | 22.4 | 0.4 |
| 10 | Malappuram | 12 | 0.87 | 2.58 | 0.07 |
| 11 | Kozhikkode | 26 | 1.92 | 5.7 | 0.07 |
| 12 | Wayanad | 15 | 2.83 | 8.41 | 0.19 |
| 13 | Kannur | 22 | 2.62 | 7.78 | 0.12 |
| 14 | Kasaragod | 19 | 1.72 | 5.11 | 0.09 |
| | State | 436 | 33.66 | 100 | 0.08 |

A1.10 District wise Area and number of holding under Turmeric during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 38 | 3.04 | 10.52 | 0.08 |
| 2 | Kollam | 60 | 2.29 | 7.93 | 0.04 |
| 3 | Pathanamthitta | 56 | 3.4 | 11.77 | 0.06 |
| 4 | Alappuzha | 25 | 0.81 | 2.8 | 0.03 |
| 5 | Kottayam | 45 | 1.94 | 6.72 | 0.04 |
| 6 | Idukki | 15 | 1.29 | 4.47 | 0.09 |
| 7 | Eranakulam | 35 | 1.61 | 5.57 | 0.05 |
| 8 | Thrissur | 45 | 6.43 | 22.26 | 0.14 |
| 9 | Palakkad | 23 | 1.4 | 4.85 | 0.06 |
| 10 | Malappuram | 33 | 2.35 | 8.13 | 0.07 |
| 11 | Kozhikkode | 30 | 0.96 | 3.32 | 0.03 |
| 12 | Wayanad | 15 | 0.4 | 1.38 | 0.03 |
| 13 | Kannur | 30 | 1.13 | 3.91 | 0.04 |
| 14 | Kasaragod | 25 | 1.83 | 6.33 | 0.07 |
| | State | 475 | 28.89 | 100 | 0.06 |

**A1.11 District wise Area and number of holding
under Pineapple during 2019-20**

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 3 | 0.65 | 0.17 | 0.22 |
| 2 | Kollam | 30 | 2.13 | 0.57 | 0.07 |
| 3 | Pathanamthitta | 9 | 19.21 | 5.17 | 2.13 |
| 4 | Alappuzha | 1 | 0.06 | 0.02 | 0.06 |
| 5 | Kottayam | 45 | 148.35 | 39.93 | 3.3 |
| 6 | Idukki | 15 | 34.66 | 9.33 | 2.31 |
| 7 | Eranakulam | 31 | 39.5 | 10.63 | 1.27 |
| 8 | Thrissur | 29 | 79.32 | 21.35 | 2.74 |
| 9 | Palakkad | 5 | 2.81 | 0.76 | 0.56 |
| 10 | Malappuram | 11 | 4.39 | 1.18 | 0.4 |
| 11 | Kozhikkode | 8 | 5.49 | 1.48 | 0.69 |
| 12 | Wayanad | | | | |
| 13 | Kannur | 13 | 32.27 | 8.69 | 2.48 |
| 14 | Kasaragod | 13 | 2.65 | 0.71 | 0.2 |
| | State | 213 | 371.5 | 100 | 1.74 |

**A1.12 District wise Area and number of holding under Bitter Gourd (Autumn)
during 2019-20**

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 2.02 | 5.75 | 0.07 |
| 2 | Kollam | 37 | 2.79 | 7.94 | 0.08 |
| 3 | Pathanamthitta | 24 | 1.95 | 5.55 | 0.08 |
| 4 | Alappuzha | 18 | 0.68 | 1.93 | 0.04 |
| 5 | Kottayam | 30 | 4.7 | 13.37 | 0.16 |
| 6 | Idukki | | | | |
| 7 | Eranakulam | 17 | 2.91 | 8.28 | 0.17 |
| 8 | Thrissur | 25 | 4.86 | 13.83 | 0.19 |
| 9 | Palakkad | 20 | 11.93 | 33.94 | 0.6 |
| 10 | Malappuram | 11 | 1.6 | 4.55 | 0.15 |
| 11 | Kozhikode | 1 | 0.02 | 0.06 | 0.02 |
| 12 | Wayanad | | | | |
| 13 | Kannur | 11 | 1.68 | 4.78 | 0.15 |
| 14 | Kasaragod | | | | |
| | State | 224 | 35.15 | 100 | 0.16 |

A1.13 District wise Area and number of holding under Bitter Gourd (Winter) during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 2.91 | 7.65 | 0.1 |
| 2 | Kollam | 35 | 1.77 | 4.66 | 0.05 |
| 3 | Pathanamthitta | 27 | 1.79 | 4.71 | 0.07 |
| 4 | Alappuzha | 18 | 0.95 | 2.5 | 0.05 |
| 5 | Kottayam | 22 | 4.41 | 11.6 | 0.2 |
| 6 | Idukki | 10 | 0.91 | 2.39 | 0.09 |
| 7 | Eranakulam | 14 | 0.9 | 2.37 | 0.06 |
| 8 | Thrissur | 30 | 1.96 | 5.16 | 0.07 |
| 9 | Palakkad | 19 | 10.83 | 28.49 | 0.57 |
| 10 | Malappuram | 19 | 8.42 | 22.15 | 0.44 |
| 11 | Kozhikode | 10 | 0.49 | 1.29 | 0.05 |
| 12 | Wayanad | 2 | 0.08 | 0.21 | 0.04 |
| 13 | Kannur | 16 | 2.08 | 5.47 | 0.13 |
| 14 | Kasaragod | 13 | 0.52 | 1.37 | 0.04 |
| | State | 265 | 38.02 | 100 | 0.14 |

A1.14 District wise Area and number of holding under Bitter Gourd (Summer) during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 2.38 | 17.42 | 0.08 |
| 2 | Kollam | 25 | 1.36 | 9.96 | 0.05 |
| 3 | Pathanamthitta | 34 | 1.94 | 14.2 | 0.06 |
| 4 | Alappuzha | 17 | 0.57 | 4.17 | 0.03 |
| 5 | Kottayam | 3 | 0.34 | 2.49 | 0.11 |
| 6 | Idukki | | | | |
| 7 | Eranakulam | 10 | 2.22 | 16.25 | 0.22 |
| 8 | Thrissur | 26 | 1.62 | 11.86 | 0.06 |
| 9 | Palakkad | 5 | 0.81 | 5.93 | 0.16 |
| 10 | Malappuram | 9 | 1.37 | 10.03 | 0.15 |
| 11 | Kozhikkode | 10 | 0.39 | 2.86 | 0.04 |
| 12 | Wayanad | 2 | 0.08 | 0.59 | 0.04 |
| 13 | Kannur | 5 | 0.22 | 1.61 | 0.04 |
| 14 | Kasaragod | 14 | 0.36 | 2.64 | 0.03 |
| | State | 190 | 13.66 | 100 | 0.07 |

A1.15 District wise Area and number of holding under Cowpea (Autumn) during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 1.77 | 6.51 | 0.06 |
| 2 | Kollam | 37 | 3.38 | 12.43 | 0.09 |
| 3 | Pathanamthitta | 30 | 1.97 | 7.24 | 0.07 |
| 4 | Alappuzha | 25 | 0.95 | 3.49 | 0.04 |
| 5 | Kottayam | 30 | 4.9 | 18.01 | 0.16 |
| 6 | Idukki | | | | |
| 7 | Eranakulam | 6 | 0.38 | 1.4 | 0.06 |
| 8 | Thrissur | 26 | 3.1 | 11.4 | 0.12 |
| 9 | Palakkad | 20 | 6.44 | 23.68 | 0.32 |
| 10 | Malappuram | 14 | 1.57 | 5.77 | 0.11 |
| 11 | Kozhikkode | 1 | 0.02 | 0.07 | 0.02 |
| 12 | Wayanad | | | | |
| 13 | Kannur | 12 | 2.74 | 10.07 | 0.23 |
| 14 | Kasaragod | | | | |
| | State | 231 | 27.2 | 100 | 0.12 |

**A1.17 District wise Area and number of holding under Cowpea (Winter) during
2019-20**

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 2.61 | 7.86 | 0.09 |
| 2 | Kollam | 35 | 2.17 | 6.53 | 0.06 |
| 3 | Pathanamthitta | 32 | 2.77 | 8.34 | 0.09 |
| 4 | Alappuzha | 29 | 1.38 | 4.16 | 0.05 |
| 5 | Kottayam | 30 | 4.42 | 13.31 | 0.15 |
| 6 | Idukki | 10 | 1.56 | 4.7 | 0.16 |
| 7 | Eranakulam | 14 | 1.15 | 3.46 | 0.08 |
| 8 | Thrissur | 30 | 3.62 | 10.9 | 0.12 |
| 9 | Palakkad | 20 | 5.15 | 15.51 | 0.26 |
| 10 | Malappuram | 17 | 2.65 | 7.98 | 0.16 |
| 11 | Kozhikkode | 10 | 0.51 | 1.54 | 0.05 |
| 12 | Wayanad | 10 | 1.74 | 5.24 | 0.17 |
| 13 | Kannur | 20 | 2.6 | 7.83 | 0.13 |
| 14 | Kasaragod | 16 | 0.89 | 2.68 | 0.06 |
| | State | 303 | 33.21 | 100 | 0.11 |

**A1.17 District wise Area and number of holding under Cowpea (Summer) during
2019-20**

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------------|-------------|--|-----------------|-------------------------------|
| 1 | Thiruvananthapuram | 30 | 2.17 | 10.4 | 0.07 |
| 2 | Kollam | 32 | 1.65 | 7.91 | 0.05 |
| 3 | Pathanamthitta | 40 | 2.81 | 13.46 | 0.07 |
| 4 | Alappuzha | 31 | 1.55 | 7.43 | 0.05 |
| 5 | Kottayam | 24 | 2.86 | 13.7 | 0.12 |
| 6 | Idukki | | | | |
| 7 | Eranakulam | 3 | 0.2 | 0.96 | 0.07 |
| 8 | Thrissur | 26 | 3.04 | 14.57 | 0.12 |
| 9 | Palakkad | 4 | 0.36 | 1.72 | 0.09 |
| 10 | Malappuram | 14 | 1.45 | 6.95 | 0.1 |
| 11 | Kozhikkode | 9 | 0.27 | 1.29 | 0.03 |
| 12 | Wayanad | 10 | 2.19 | 10.49 | 0.22 |
| 13 | Kannur | 7 | 0.99 | 4.74 | 0.14 |
| 14 | Kasaragod | 16 | 1.34 | 6.42 | 0.08 |
| | State | 246 | 20.87 | 100 | 0.08 |

A1.18 District wise Area and number of holding under Cardamom during 2019-20

| Sl No | District | Sample Size | Area under the crop in the sample (ha) | Percentage Area | Average Area per holding (ha) |
|-------|--------------|-------------|--|-----------------|-------------------------------|
| 1 | Idukki | 8 | 2.09 | 11.37 | 0.26 |
| 2 | Palakkad | 6 | 8.83 | 48.04 | 1.47 |
| 3 | Wayanad | 15 | 7.47 | 40.64 | 0.5 |
| | State | 29 | 18.38 | 100 | 0.63 |

A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2019-20

| Sl No | Components | Thiruvannthapuram | Kollam | Pathanmthitta | Alappuzha | Kottayam |
|-----------|--|-------------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 57834 | 31219 | 43706 | 22768 | 24479 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 17870 | | | 10233 | |
| 4 | Seed / seedlings | 2528 | 2808 | 4258 | 3216 | 3793 |
| 5 | Farmyard manure and chemical fertilizers | 9049 | 9279 | 9724 | 7780 | 5021 |
| 6 | Plant protection | 549 | 4492 | 875 | 3352 | 6922 |
| 7 | Land tax and irrigation cess | 330 | 168 | 39 | 351 | 311 |
| 8 | Repair and maintenance charges of implements, machinery and building | 196 | 908 | 185 | | 97 |
| 9 | Interest on working capital | 8783 | 4780 | 5856 | 4735 | 4022 |
| 10 | Other expenses | 10713 | 32610 | 15604 | 10245 | 19260 |
| 11 | Total cost 'A' (1-10) | 107852 | 86263 | 80247 | 62680 | 63904 |
| 12 | Interest on fixed capital | 465 | 1085 | 65 | 57 | 166 |
| 13 | Cost 'B1' (11+12) | 108318 | 87348 | 80312 | 62737 | 64070 |
| 14 | Interest on land value | 388607 | 154210 | 62709 | 95500 | 80880 |
| 15 | Cost 'B' (13+14) | 496925 | 241558 | 143021 | 158236 | 144950 |
| 16 | Imputed value of household labour | 17561 | 4741 | 9710 | 2740 | 9946 |
| 17 | Cost 'C' (15+16) | 514486 | 246300 | 152731 | 160976 | 154896 |

A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 29479 | 41561 | 18403 | 15300 | 27754 |
| 2 | Animal labour | | | | | 138 |
| 3 | Machine labour | 18442 | 10155 | 12861 | 10382 | 12237 |
| 4 | Seed / seedlings | 2799 | 13352 | 3648 | 2679 | 2606 |
| 5 | Farmyard manure and chemical fertilizers | 5727 | 5110 | 8980 | 5108 | 7021 |
| 6 | Plant protection | 15 | 1474 | 1255 | 1601 | 360 |
| 7 | Land tax and irrigation cess | 65 | 55 | 186 | 94 | 122 |
| 8 | Repair and maintenance charges of implements, machinery and building | 314 | 89 | 19 | | 143 |
| 9 | Interest on working capital | 5646 | 7165 | 4515 | 3507 | 5012 |
| 10 | Other expenses | 978 | 5972 | 10013 | 5069 | 7233 |
| 11 | Total cost 'A' (1-10) | 63466 | 84933 | 59880 | 43739 | 62626 |
| 12 | Interest on fixed capital | 4402 | 289 | 192 | 10940 | 1044 |
| 13 | Cost 'B1' (11+12) | 67868 | 85221 | 60072 | 54679 | 63670 |
| 14 | Interest on land value | 312293 | 414733 | 176872 | 89783 | 150826 |
| 15 | Cost 'B' (13+14) | 380161 | 499954 | 236944 | 144462 | 214495 |
| 16 | Imputed value of household labour | 12123 | 5508 | 3457 | 2355 | 6630 |
| 17 | Cost 'C' (15+16) | 392283 | 505462 | 240401 | 146817 | 221126 |

A2.1 District wise Cost of Cultivation per hectare (in Rs) of Autumn Paddy during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-----------|--|---------------|---------|---------------|---------------|---------------|
| 1 | Hired human labour | 27772 | | 36788 | 40422 | 27536 |
| 2 | Animal labour | | | | 56 | 12 |
| 3 | Machine labour | 1762 | | 10767 | 6312 | 8280 |
| 4 | Seed / seedlings | 3481 | | 1557 | 1870 | 3818 |
| 5 | Farmyard manure and chemical fertilizers | 12407 | | 8328 | 9604 | 7591 |
| 6 | Plant protection | 21 | | 3 | | 2493 |
| 7 | Land tax and irrigation cess | 100 | | 222 | 313 | 210 |
| 8 | Repair and maintenance charges of implements, machinery and building | 524 | | 97 | 252 | 179 |
| 9 | Interest on working capital | 4544 | | 5744 | 5826 | 4973 |
| 10 | Other expenses | 14827 | | 10406 | 572 | 12630 |
| 11 | Total cost 'A' (1-10) | 65439 | | 73912 | 65228 | 67722 |
| 12 | Interest on fixed capital | 1304 | | 811 | 2588 | 1648 |
| 13 | Cost 'B1' (11+12) | 66744 | | 74724 | 67817 | 69370 |
| 14 | Interest on land value | 166706 | | 145915 | 137642 | 158043 |
| 15 | Cost 'B' (13+14) | 233450 | | 220638 | 205458 | 227413 |
| 16 | Imputed value of household labour | 13315 | | 20420 | 15083 | 6377 |
| 17 | Cost 'C' (15+16) | 246765 | | 241058 | 220541 | 233790 |

A2.2 District wise Cost of Cultivation per hectare (in Rs.) of Winter Paddy during 2019-20

| Sl No | Components | Thiruvannth apuram | Kollam | Pathanamt hitta | Alappuzha | Kottayam |
|-----------|---|-----------------------|---------------|--------------------|---------------|---------------|
| 1 | Hired human labour | 56643 | 32758 | 52052 | 24104 | 26300 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 11195 | | 1402 | 10435 | |
| 4 | Seed / seedlings | 2502 | 2643 | 3985 | 4002 | 4218 |
| 5 | Farmyard manure and chemical fertilizers | 9618 | 7094 | 7815 | 7315 | 4633 |
| 6 | Plant protection | 515 | 136 | 217 | 2468 | 6705 |
| 7 | Land tax and irrigation cess | 227 | 236 | 16 | 376 | 310 |
| 8 | Repair and maintenance charges of implements, machinery and building | 113 | 427 | 23 | | 43 |
| 9 | Interest on working capital | 8047 | 4263 | 6547 | 4832 | 4186 |
| 10 | Other expenses | 10450 | 29483 | 24566 | 7825 | 20860 |
| 11 | Total cost 'A' (1-10) | 99310 | 77040 | 96623 | 61358 | 67254 |
| 12 | Interest on fixed capital | 414 | 388 | 4764 | 45 | 172 |
| 13 | Cost 'B1' (11+12) | 99724 | 77428 | 101386 | 61403 | 67426 |
| 14 | Interest on land value | 255741 | 145602 | 58009 | 94626 | 177786 |
| 15 | Cost 'B' (13+14) | 355465 | 223030 | 159395 | 156029 | 245212 |
| 16 | Imputed value of household labour | 17595 | 7527 | 6511 | 3211 | 12693 |
| 17 | Cost 'C' (15+16) | 373060 | 230557 | 165906 | 159240 | 257905 |

A2.2 District wise Cost of Cultivation per hectare (in Rs) of Winter Paddy during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-----------|--|---------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 33702 | 37964 | 14734 | 18677 | 33060 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 10764 | 10208 | 17657 | 12781 | 20556 |
| 4 | Seed / seedlings | 2661 | 2241 | 2976 | 3266 | 1972 |
| 5 | Farmyard manure and chemical fertilizers | 9331 | 11105 | 7800 | 3825 | 7890 |
| 6 | Plant protection | 235 | 1972 | 1595 | 2384 | 1232 |
| 7 | Land tax and irrigation cess | 53 | 63 | 167 | 116 | 78 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1132 | 425 | 10 | | 319 |
| 9 | Interest on working capital | 5669 | 6349 | 4476 | 4093 | 6471 |
| 10 | Other expenses | 5396 | 10395 | 14005 | 4513 | 9280 |
| 11 | Total cost 'A' (1-10) | 68943 | 80722 | 63420 | 49656 | 80860 |
| 12 | Interest on fixed capital | 4771 | 3824 | 105 | 9867 | 2656 |
| 13 | Cost 'B1' (11+12) | 73713 | 84547 | 63525 | 59523 | 83516 |
| 14 | Interest on land value | 240611 | 331438 | 271813 | 105201 | 271211 |
| 15 | Cost 'B' (13+14) | 314325 | 415985 | 335338 | 164723 | 354727 |
| 16 | Imputed value of household labour | 15709 | 7519 | 6025 | 4197 | 6523 |
| 17 | Cost 'C' (15+16) | 330034 | 423504 | 341363 | 168920 | 361250 |

A2.2 District wise Cost of Cultivation per hectare (in Rs) of Winter Paddy during 2019-20

| SI No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 28305 | 44382 | 35210 | 32138 | 32158 |
| 2 | Animal labour | 1038 | | | | 23 |
| 3 | Machine labour | 1751 | | 6448 | 9305 | 8687 |
| 4 | Seed / seedlings | 2921 | 4430 | 1657 | 2302 | 3205 |
| 5 | Farmyard manure and chemical fertilizers | 7101 | 8569 | 6938 | 9640 | 7411 |
| 6 | Plant protection | 247 | 292 | 123 | | 1492 |
| 7 | Land tax and irrigation cess | 138 | 382 | 181 | 347 | 191 |
| 8 | Repair and maintenance charges of implements, machinery and building | 161 | 825 | 3 | 1595 | 186 |
| 9 | Interest on working capital | 4136 | 5767 | 5037 | 5339 | 5297 |
| 10 | Other expenses | 12339 | 26980 | 18162 | 1901 | 15751 |
| 11 | Total cost 'A' (1-10) | 58138 | 91627 | 73758 | 62567 | 74401 |
| 12 | Interest on fixed capital | 804 | 879 | 3921 | 13354 | 2335 |
| 13 | Cost 'B1' (11+12) | 58942 | 92506 | 77680 | 75921 | 76736 |
| 14 | Interest on land value | 262789 | 67812 | 163044 | 123552 | 164285 |
| 15 | Cost 'B' (13+14) | 321731 | 160318 | 240723 | 199473 | 241021 |
| 16 | Imputed value of household labour | 9838 | 10694 | 17627 | 29288 | 7645 |
| 17 | Cost 'C' (15+16) | 331568 | 171012 | 258351 | 228761 | 248666 |

A2.3 District wise Cost of Cultivation per hectare (in Rs.) of Summer Paddy during 2019-20

| S1 No | Components | Thiruvannth apuram | Kollam | Pathanamt hitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|-----------------|---------------|---------------|
| 1 | Hired human labour | 65208 | 54662 | 31072 | 17303 | 24260 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 11963 | | 2327 | 11521 | |
| 4 | Seed / seedlings | 2592 | 7294 | 4070 | 4180 | 3468 |
| 5 | Farmyard manure and chemical fertilizers | 8735 | 13797 | 7777 | 7632 | 5542 |
| 6 | Plant protection | 1232 | 171 | 471 | 2469 | 7010 |
| 7 | Land tax and irrigation cess | 508 | 314 | 17 | 239 | 389 |
| 8 | Repair and maintenance charges of implements, machinery and building | 465 | 2052 | 139 | | 84 |
| 9 | Interest on working capital | 8973 | 7592 | 4572 | 4311 | 4028 |
| 10 | Other expenses | 17115 | 9924 | 22493 | 7830 | 20931 |
| 11 | Total cost 'A' (1-10) | 116791 | 95806 | 72937 | 55485 | 65712 |
| 12 | Interest on fixed capital | 790 | 2224 | 3696 | 42 | 73 |
| 13 | Cost 'B1' (11+12) | 117581 | 98030 | 76633 | 55527 | 65785 |
| 14 | Interest on land value | 234278 | 39825 | 62420 | 57886 | 165185 |
| 15 | Cost 'B' (13+14) | 351858 | 137855 | 139053 | 113414 | 230970 |
| 16 | Imputed value of household labour | 26583 | 10196 | 9494 | 3273 | 9762 |
| 17 | Cost 'C' (15+16) | 378442 | 148051 | 148547 | 116686 | 240732 |

A2.3 District wise Cost of Cultivation per hectare (in Rs) of Summer Paddy during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 39345 | 24774 | 16529 | 25929 | 26902 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 6954 | 11497 | 20409 | 13556 | 19929 |
| 4 | Seed / seedlings | 1545 | 2109 | 2943 | 3323 | 2273 |
| 5 | Farmyard manure and chemical fertilizers | 486 | 6345 | 8756 | 3594 | 10653 |
| 6 | Plant protection | | 2063 | 2619 | 1907 | 1022 |
| 7 | Land tax and irrigation cess | 6 | 69 | 2909 | 130 | 67 |
| 8 | Repair and maintenance charges of implements, machinery and building | 66 | 191 | 14 | | 840 |
| 9 | Interest on working capital | 4833 | 4679 | 5126 | 4831 | 6078 |
| 10 | Other expenses | 110 | 7954 | 11231 | 3254 | 13672 |
| 11 | Total cost 'A' (1-10) | 53343 | 59681 | 70536 | 56526 | 81437 |
| 12 | Interest on fixed capital | 2548 | 3032 | 122 | 14437 | 3669 |
| 13 | Cost 'B1' (11+12) | 55891 | 62713 | 70659 | 70963 | 85105 |
| 14 | Interest on land value | 242543 | 251766 | 178262 | 188493 | 159383 |
| 15 | Cost 'B' (13+14) | 298434 | 314479 | 248921 | 259456 | 244489 |
| 16 | Imputed value of household labour | 2321 | 6427 | 4353 | 5669 | 7298 |
| 17 | Cost 'C' (15+16) | 300755 | 320906 | 253273 | 265125 | 251787 |

A2.3 District wise Cost of Cultivation per hectare (in Rs) of Summer Paddy during 2019-20

| SI No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 32175 | 50511 | 34168 | 29468 | 25903 |
| 2 | Animal labour | 252 | | | | 5 |
| 3 | Machine labour | 2014 | | 8919 | 13538 | 8484 |
| 4 | Seed / seedlings | 2907 | 4261 | 1591 | 2031 | 3600 |
| 5 | Farmyard manure and chemical fertilizers | 11572 | 7814 | 2847 | 8265 | 7735 |
| 6 | Plant protection | 391 | 152 | | | 2602 |
| 7 | Land tax and irrigation cess | 43 | 410 | 64 | 310 | 574 |
| 8 | Repair and maintenance charges of implements, machinery and building | 159 | 1748 | | 854 | 238 |
| 9 | Interest on working capital | 4931 | 6274 | 4753 | 5330 | 4833 |
| 10 | Other expenses | 12022 | 24769 | 20029 | 2674 | 14729 |
| 11 | Total cost 'A' (1-10) | 66467 | 95937 | 72371 | 62469 | 68703 |
| 12 | Interest on fixed capital | 934 | 813 | 2598 | 6849 | 1941 |
| 13 | Cost 'B1' (11+12) | 67400 | 96750 | 74969 | 69318 | 70644 |
| 14 | Interest on land value | 169042 | 49943 | 144083 | 181609 | 121608 |
| 15 | Cost 'B' (13+14) | 236443 | 146693 | 219052 | 250926 | 192252 |
| 16 | Imputed value of household labour | 13849 | 18788 | 14048 | 20772 | 8092 |
| 17 | Cost 'C' (15+16) | 250291 | 165481 | 233100 | 271698 | 200344 |

A2.4 District wise Cost of Cultivation per hectare (in Rs.) of Coconut during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 65741 | 41053 | 25924 | 50210 | 47692 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | | 45 | 1240 | 171 | 5791 |
| 5 | Farmyard manure and chemical fertilizers | 15885 | 11890 | 9621 | 13209 | 22820 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 443 | 408 | 194 | 371 | 477 |
| 8 | Repair and maintenance charges of implements, machinery and building | 224 | 774 | 367 | | 328 |
| 9 | Interest on working capital | 8163 | 5299 | 3678 | 6359 | 7630 |
| 10 | Other expenses | 6993 | 1953 | 1625 | 1799 | 4682 |
| 11 | Total cost 'A' (1-10) | 97449 | 61422 | 42648 | 72119 | 89421 |
| 12 | Interest on fixed capital | 572 | 484 | 194 | 281 | 182 |
| 13 | Cost 'B1' (11+12) | 98021 | 61905 | 42842 | 72400 | 89602 |
| 14 | Interest on land value | 439600 | 384161 | 255442 | 248668 | 694148 |
| 15 | Cost 'B' (13+14) | 537622 | 446067 | 298284 | 321068 | 783750 |
| 16 | Imputed value of household labour | 24930 | 10791 | 7296 | 5432 | 11082 |
| 17 | Cost 'C' (15+16) | 562552 | 456858 | 305580 | 326500 | 794832 |

A 2.4 District wise Cost of Cultivation per hectare (in Rs) of Coconut during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 36419 | 44656 | 56530 | 26008 | 73112 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 3435 | 2557 |
| 4 | Seed / seedlings | 348 | | 508 | | 1214 |
| 5 | Farmyard manure and chemical fertilizers | 8063 | 8833 | 13838 | 8394 | 21654 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 60 | 44 | 287 | 293 | 343 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1484 | 63 | 57 | | 809 |
| 9 | Interest on working capital | 4483 | 5349 | 7088 | 3784 | 9854 |
| 10 | Other expenses | 1796 | 2106 | 2758 | 7813 | 4327 |
| 11 | Total cost 'A' (1-10) | 52652 | 61051 | 81065 | 49726 | 113871 |
| 12 | Interest on fixed capital | 5409 | 609 | 2615 | 21400 | 10055 |
| 13 | Cost 'B1' (11+12) | 58061 | 61660 | 83680 | 71126 | 123926 |
| 14 | Interest on land value | 339812 | 1449673 | 663924 | 125035 | 501966 |
| 15 | Cost 'B' (13+14) | 397873 | 1511332 | 747604 | 196161 | 625892 |
| 16 | Imputed value of household labour | 18214 | 5841 | 12852 | 5370 | 6704 |
| 17 | Cost 'C' (15+16) | 416087 | 1517174 | 760456 | 201531 | 632596 |

A 2.4 District wise Cost of Cultivation per hectare (in Rs) of coconut during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-----------|--|---------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 30746 | 38983 | 58026 | 44759 | 48264 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 1014 | 743 |
| 4 | Seed / seedlings | | | | | 715 |
| 5 | Farmyard manure and chemical fertilizers | 7540 | 12100 | 38702 | 34881 | 16860 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 531 | 494 | 492 | 999 | 392 |
| 8 | Repair and maintenance charges of implements, machinery and building | 132 | 1273 | 27 | 1041 | 382 |
| 9 | Interest on working capital | 3829 | 5108 | 9673 | 8065 | 6658 |
| 10 | Other expenses | 1353 | 711 | 6457 | 2081 | 3570 |
| 11 | Total cost 'A' (1-10) | 44130 | 58670 | 113376 | 92841 | 77584 |
| 12 | Interest on fixed capital | 1608 | 931 | 5202 | 11110 | 5136 |
| 13 | Cost 'B1' (11+12) | 45737 | 59601 | 118578 | 103951 | 82720 |
| 14 | Interest on land value | 208195 | 164168 | 232300 | 319095 | 445901 |
| 15 | Cost 'B' (13+14) | 253932 | 223768 | 350879 | 423045 | 528621 |
| 16 | Imputed value of household labour | 4843 | 11619 | 9692 | 17017 | 9872 |
| 17 | Cost 'C' (15+16) | 258775 | 235388 | 360571 | 440062 | 538493 |

A 2.5 District wise Cost of Cultivation per hectare (in Rs.) of Areca nut during 2019-20

| S1 No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 57171 | 46846 | 23058 | 13957 | 22489 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | | | 321 | | 6516 |
| 5 | Farmyard manure and chemical fertilizers | 11346 | 12316 | 5282 | 2455 | 15649 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 129 | 347 | 136 | 318 | 624 |
| 8 | Repair and maintenance charges of implements, machinery and building | 73 | 4544 | 1517 | | 676 |
| 9 | Interest on working capital | 6852 | 5916 | 2866 | 1641 | 4465 |
| 10 | Other expenses | 4046 | 1823 | 937 | 247 | 3131 |
| 11 | Total cost 'A' (1-10) | 79617 | 71793 | 34117 | 18619 | 53549 |
| 12 | Interest on fixed capital | 445 | 2489 | 1041 | 2337 | 1224 |
| 13 | Cost 'B1' (11+12) | 80062 | 74282 | 35158 | 20956 | 54774 |
| 14 | Interest on land value | 452879 | 400759 | 193346 | 398208 | 886235 |
| 15 | Cost 'B' (13+14) | 532940 | 475041 | 228504 | 419164 | 941009 |
| 16 | Imputed value of household labour | 28943 | 9708 | 20793 | 29588 | 43689 |
| 17 | Cost 'C' (15+16) | 561883 | 484750 | 249297 | 448752 | 984698 |

A 2.5 District wise Cost of Cultivation per hectare (in Rs) of Arecanut during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 31650 | 162697 | 73459 | 46644 | 64410 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | 2975 |
| 4 | Seed / seedlings | | | 1544 | | 549 |
| 5 | Farmyard manure and chemical fertilizers | 5582 | 32149 | 32490 | 28322 | 22518 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 82 | 177 | 294 | 371 | 349 |
| 8 | Repair and maintenance charges of implements, machinery and building | 4046 | 135 | 51 | | 2014 |
| 9 | Interest on working capital | 3723 | 19485 | 10749 | 7497 | 9045 |
| 10 | Other expenses | 829 | 13742 | 3036 | 3054 | 4609 |
| 11 | Total cost 'A' (1-10) | 45912 | 228385 | 121623 | 85887 | 106471 |
| 12 | Interest on fixed capital | 13564 | 229 | 9466 | 11880 | 18567 |
| 13 | Cost 'B1' (11+12) | 59476 | 228614 | 131088 | 97767 | 125037 |
| 14 | Interest on land value | 365267 | 848946 | 505004 | 116196 | 495131 |
| 15 | Cost 'B' (13+14) | 424742 | 1077560 | 636093 | 213963 | 620168 |
| 16 | Imputed value of household labour | 18633 | 35803 | 44521 | 11362 | 9114 |
| 17 | Cost 'C' (15+16) | 443375 | 1113363 | 680613 | 225325 | 629282 |

A 2.5 District wise Cost of Cultivation per hectare (in Rs) of Areca nut during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 31741 | 51304 | 90281 | 46167 | 57267 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 3501 | 1234 |
| 4 | Seed / seedlings | | | | | 400 |
| 5 | Farmyard manure and chemical fertilizers | 12248 | 9698 | 29228 | 89964 | 30129 |
| 6 | Plant protection | | | | | |
| 7 | Land tax and irrigation cess | 663 | 494 | 536 | 1848 | 584 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 973 | 67 | 1721 | 1117 |
| 9 | Interest on working capital | 4399 | 6100 | 11951 | 13963 | 8903 |
| 10 | Other expenses | 1708 | 970 | 12580 | 2283 | 3820 |
| 11 | Total cost 'A' (1-10) | 50758 | 69539 | 144645 | 159447 | 103454 |
| 12 | Interest on fixed capital | 296 | 694 | 14611 | 18962 | 10543 |
| 13 | Cost 'B1' (11+12) | 51055 | 70233 | 159255 | 178409 | 113997 |
| 14 | Interest on land value | 187650 | 165097 | 576022 | 619015 | 435621 |
| 15 | Cost 'B' (13+14) | 238705 | 235331 | 735277 | 797424 | 549618 |
| 16 | Imputed value of household labour | 9973 | 8547 | 25596 | 31714 | 20496 |
| 17 | Cost 'C' (15+16) | 248677 | 243877 | 760873 | 829138 | 570114 |

A 2.6 District wise Cost of Cultivation per hectare (in Rs.) of Tapioca during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 114432 | 70554 | 37003 | 74702 | 54943 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 10551 | |
| 4 | Seed / seedlings | 7889 | 3071 | 4870 | 10316 | 2542 |
| 5 | Farmyard manure and chemical fertilizers | 16197 | 22258 | 13208 | 37860 | 26376 |
| 6 | Plant protection | | | | 36 | |
| 7 | Land tax and irrigation cess | 258 | 347 | 163 | 241 | 537 |
| 8 | Repair and maintenance charges of implements, machinery and building | 136 | 1862 | 513 | | 480 |
| 9 | Interest on working capital | 13852 | 9588 | 5508 | 13347 | 8386 |
| 10 | Other expenses | 17272 | 4513 | 10623 | 17886 | 9753 |
| 11 | Total cost 'A' (1-10) | 170036 | 112194 | 71889 | 164939 | 103016 |
| 12 | Interest on fixed capital | 285 | 1015 | 267 | 981 | 233 |
| 13 | Cost 'B1' (11+12) | 170321 | 113209 | 72156 | 165920 | 103250 |
| 14 | Interest on land value | 441416 | 266437 | 296612 | 239790 | 507481 |
| 15 | Cost 'B' (13+14) | 611737 | 379646 | 368768 | 405710 | 610731 |
| 16 | Imputed value of household labour | 40233 | 39115 | 31086 | 64052 | 32492 |
| 17 | Cost 'C' (15+16) | 651970 | 418761 | 399854 | 469762 | 643223 |

A 2.6 District wise Cost of Cultivation per hectare (in Rs) of Tapioca during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 55189 | 76892 | 52280 | 30094 | 54118 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 4433 | 800 | 15693 | 6495 | 8458 |
| 4 | Seed / seedlings | 946 | 15119 | 9530 | 15191 | 5249 |
| 5 | Farmyard manure and chemical fertilizers | 30473 | 26817 | 22897 | 31772 | 18343 |
| 6 | Plant protection | | 264 | 700 | | 661 |
| 7 | Land tax and irrigation cess | 69 | 119 | 89 | 337 | 82 |
| 8 | Repair and maintenance charges of implements, machinery and building | 105 | 99 | 37 | | 1453 |
| 9 | Interest on working capital | 9104 | 11989 | 10110 | 8355 | 8683 |
| 10 | Other expenses | 13674 | 15967 | 18606 | 6353 | 20107 |
| 11 | Total cost 'A' (1-10) | 113991 | 148067 | 129940 | 98596 | 117153 |
| 12 | Interest on fixed capital | 2352 | 141 | 1788 | 12205 | 7236 |
| 13 | Cost 'B1' (11+12) | 116343 | 148208 | 131728 | 110801 | 124388 |
| 14 | Interest on land value | 394706 | 1145503 | 219439 | 107701 | 202651 |
| 15 | Cost 'B' (13+14) | 511049 | 1293711 | 351167 | 218502 | 327040 |
| 16 | Imputed value of household labour | 14215 | 17587 | 19326 | 31221 | 23799 |
| 17 | Cost 'C' (15+16) | 525264 | 1311298 | 370493 | 249723 | 350839 |

A 2.6 District wise Cost of Cultivation per hectare (in Rs) of Tapioca during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 55486 | 80021 | 89687 | 54500 | 61337 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 6493 | 4847 |
| 4 | Seed / seedlings | 6498 | 3600 | 26367 | 10480 | 7641 |
| 5 | Farmyard manure and chemical fertilizers | 17862 | 6768 | 47966 | 27878 | 22752 |
| 6 | Plant protection | | 1927 | | 2262 | 341 |
| 7 | Land tax and irrigation cess | 137 | 494 | 456 | 360 | 227 |
| 8 | Repair and maintenance charges of implements, machinery and building | 50 | 2050 | 40 | 232 | 533 |
| 9 | Interest on working capital | 7985 | 9232 | 16402 | 10161 | 9692 |
| 10 | Other expenses | 10669 | 16090 | 5810 | 3159 | 13888 |
| 11 | Total cost 'A' (1-10) | 98687 | 120181 | 186727 | 115524 | 121258 |
| 12 | Interest on fixed capital | 344 | 1616 | 2055 | 6428 | 2333 |
| 13 | Cost 'B1' (11+12) | 99031 | 121797 | 188782 | 121952 | 123591 |
| 14 | Interest on land value | 170364 | 90195 | 187799 | 199779 | 354017 |
| 15 | Cost 'B' (13+14) | 269394 | 211992 | 376581 | 321731 | 477608 |
| 16 | Imputed value of household labour | 31797 | 55741 | 42123 | 30773 | 30407 |
| 17 | Cost 'C' (15+16) | 301192 | 267734 | 418705 | 352503 | 508015 |

A2.7 District wise Cost of Cultivation per hectare (in Rs.) of Banana during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 156331 | 114558 | 59085 | 76160 | 53576 |
| 2 | Animal labour | | | 23 | | |
| 3 | Machine labour | | | | 834 | |
| 4 | Seed / seedlings | 20723 | 28292 | 27944 | 29129 | 22938 |
| 5 | Farmyard manure and chemical fertilizers | 34240 | 41297 | 27449 | 48273 | 55930 |
| 6 | Plant protection | 153 | 377 | 1367 | 1419 | 1092 |
| 7 | Land tax and irrigation cess | 146 | 378 | 155 | 283 | 553 |
| 8 | Repair and maintenance charges of implements, machinery and building | 193 | 1755 | 463 | | 598 |
| 9 | Interest on working capital | 21145 | 18452 | 11587 | 15582 | 13354 |
| 10 | Other expenses | 26282 | 8910 | 29177 | 30600 | 13618 |
| 11 | Total cost 'A' (1-10) | 259213 | 214020 | 157250 | 202281 | 161660 |
| 12 | Interest on fixed capital | 742 | 995 | 296 | 557 | 263 |
| 13 | Cost 'B1' (11+12) | 259955 | 215015 | 157545 | 202838 | 161923 |
| 14 | Interest on land value | 381338 | 198102 | 246099 | 231668 | 480870 |
| 15 | Cost 'B' (13+14) | 641294 | 413117 | 403645 | 434507 | 642793 |
| 16 | Imputed value of household labour | 83348 | 36655 | 28018 | 52961 | 61226 |
| 17 | Cost 'C' (15+16) | 724642 | 449772 | 431663 | 487468 | 704019 |

A 2.7 District wise Cost of Cultivation per hectare (in Rs) of Banana during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 106535 | 119689 | 70194 | 33264 | 90436 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 3409 | 312 | 12777 | 3250 | 7222 |
| 4 | Seed / seedlings | 31752 | 25752 | 38677 | 21240 | 34043 |
| 5 | Farmyard manure and chemical fertilizers | 35708 | 42918 | 43619 | 129100 | 42630 |
| 6 | Plant protection | 350 | 1238 | 3475 | 1169 | 2199 |
| 7 | Land tax and irrigation cess | 35 | 90 | 192 | 214 | 39 |
| 8 | Repair and maintenance charges of implements, machinery and building | 97 | 254 | 75 | 466 | 1114 |
| 9 | Interest on working capital | 17775 | 18991 | 16874 | 18802 | 17653 |
| 10 | Other expenses | 20154 | 18951 | 78365 | 22677 | 53625 |
| 11 | Total cost 'A' (1-10) | 215816 | 228195 | 264248 | 230184 | 248961 |
| 12 | Interest on fixed capital | 9097 | 3613 | 3977 | 7025 | 14139 |
| 13 | Cost 'B1' (11+12) | 224913 | 231808 | 268226 | 237209 | 263100 |
| 14 | Interest on land value | 417227 | 765093 | 413253 | 89940 | 235862 |
| 15 | Cost 'B' (13+14) | 642141 | 996901 | 681479 | 327150 | 498963 |
| 16 | Imputed value of household labour | 17591 | 11333 | 45269 | 21121 | 49462 |
| 17 | Cost 'C' (15+16) | 659732 | 1008235 | 726748 | 348270 | 548424 |

A 2.7 District wise Cost of Cultivation per hectare (in Rs) of Banana during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 79241 | 89594 | 114331 | 56988 | 83993 |
| 2 | Animal labour | | | | | 2 |
| 3 | Machine labour | | | 3724 | 8887 | 3188 |
| 4 | Seed / seedlings | 32586 | 29640 | 33163 | 25707 | 28575 |
| 5 | Farmyard manure and chemical fertilizers | 32785 | 27836 | 35458 | 69316 | 51777 |
| 6 | Plant protection | 1211 | 5281 | | 4871 | 1558 |
| 7 | Land tax and irrigation cess | 141 | 494 | 277 | 2389 | 281 |
| 8 | Repair and maintenance charges of implements, machinery and building | 13 | 3514 | 48 | 1720 | 563 |
| 9 | Interest on working capital | 14582 | 15235 | 18668 | 16577 | 16909 |
| 10 | Other expenses | 53956 | 12444 | 29696 | 3081 | 32946 |
| 11 | Total cost 'A' (1-10) | 214514 | 184037 | 235364 | 189535 | 219792 |
| 12 | Interest on fixed capital | 451 | 2807 | 13244 | 41703 | 5666 |
| 13 | Cost 'B1' (11+12) | 214964 | 186845 | 248608 | 231238 | 225458 |
| 14 | Interest on land value | 150974 | 62186 | 150323 | 169854 | 307751 |
| 15 | Cost 'B' (13+14) | 365938 | 249031 | 398931 | 401092 | 533209 |
| 16 | Imputed value of household labour | 26500 | 99586 | 34316 | 123371 | 42524 |
| 17 | Cost 'C' (15+16) | 392439 | 348617 | 433248 | 524463 | 575733 |

A 2.8 District wise Cost of Cultivation per hectare (in Rs.) of Pepper during 2019-20

| S1 No | Components | Thiruvananthapuram | Kollam | Pathanamtitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 72921 | 69179 | 42293 | 42699 | 49019 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | | | 540 | | 2003 |
| 5 | Farmyard manure and chemical fertilizers | 4538 | 19191 | 8874 | 25815 | 21347 |
| 6 | Plant protection | | | | 307 | |
| 7 | Land tax and irrigation cess | 202 | 389 | 138 | 400 | 520 |
| 8 | Repair and maintenance charges of implements, machinery and building | 29 | 3650 | 442 | | 523 |
| 9 | Interest on working capital | 7746 | 8837 | 5171 | 6882 | 7237 |
| 10 | Other expenses | 1930 | 1933 | 2607 | 7488 | 2363 |
| 11 | Total cost 'A' (1-10) | 87366 | 103179 | 60065 | 83591 | 83012 |
| 12 | Interest on fixed capital | 679 | 1903 | 272 | 4419 | 453 |
| 13 | Cost 'B1' (11+12) | 88045 | 105082 | 60337 | 88010 | 83465 |
| 14 | Interest on land value | 457847 | 414722 | 105440 | 291008 | 602736 |
| 15 | Cost 'B' (13+14) | 545892 | 519804 | 165777 | 379018 | 686202 |
| 16 | Imputed value of household labour | 24039 | 30807 | 21565 | 71458 | 38661 |
| 17 | Cost 'C' (15+16) | 569931 | 550611 | 187342 | 450476 | 724863 |

A2.8 District wise Cost of Cultivation per hectare (in Rs) of pepper during 2019-20

| S1 No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-----------|--|---------------|----------------|---------------|---------------|---------------|
| 1 | Hired human labour | 39089 | 72813 | 84906 | 28826 | 57196 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 317 | | | 4338 | 575 |
| 4 | Seed / seedlings | 4864 | | 654 | | 744 |
| 5 | Farmyard manure and chemical fertilizers | 9440 | 32350 | 13300 | 16669 | 11611 |
| 6 | Plant protection | | 549 | 2918 | 1962 | 1512 |
| 7 | Land tax and irrigation cess | 86 | 280 | 288 | 443 | 357 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 72 | 17 | | 3388 |
| 9 | Interest on working capital | 5371 | 10571 | 10178 | 5180 | 7164 |
| 10 | Other expenses | 1267 | 5569 | 4067 | 2915 | 3218 |
| 11 | Total cost 'A' (1-10) | 60433 | 122204 | 116329 | 60332 | 85763 |
| 12 | Interest on fixed capital | 10335 | 502 | 816 | 6630 | 40179 |
| 13 | Cost 'B1' (11+12) | 70769 | 122705 | 117145 | 66963 | 125942 |
| 14 | Interest on land value | 287065 | 985449 | 786118 | 115915 | 435334 |
| 15 | Cost 'B' (13+14) | 357834 | 1108155 | 903263 | 182878 | 561276 |
| 16 | Imputed value of household labour | 25261 | 38777 | 47133 | 23774 | 14174 |
| 17 | Cost 'C' (15+16) | 383094 | 1146931 | 950396 | 206652 | 575450 |

A2.8 District wise Cost of Cultivation per hectare (in Rs) of Pepper during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 54560 | 39553 | 93456 | 24264 | 52640 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 2312 | 601 |
| 4 | Seed / seedlings | | 6653 | | | 1210 |
| 5 | Farmyard manure and chemical fertilizers | 25326 | 9595 | 29365 | 46044 | 16311 |
| 6 | Plant protection | | 877 | | 251 | 639 |
| 7 | Land tax and irrigation cess | 534 | 527 | 486 | 689 | 363 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 1716 | 110 | 2344 | 1056 |
| 9 | Interest on working capital | 7989 | 5668 | 12282 | 7287 | 7140 |
| 10 | Other expenses | 6090 | 41 | 3426 | 724 | 2623 |
| 11 | Total cost 'A' (1-10) | 94499 | 64630 | 139125 | 83915 | 82583 |
| 12 | Interest on fixed capital | 306 | 3588 | 15693 | 42331 | 9942 |
| 13 | Cost 'B1' (11+12) | 94805 | 68218 | 154818 | 126246 | 92525 |
| 14 | Interest on land value | 190410 | 174124 | 232944 | 202734 | 334052 |
| 15 | Cost 'B' (13+14) | 285215 | 242342 | 387761 | 328981 | 426577 |
| 16 | Imputed value of household labour | 33841 | 21518 | 25872 | 29490 | 27273 |
| 17 | Cost 'C' (15+16) | 319057 | 263860 | 413633 | 358470 | 453850 |

A 2.9 District wise Cost of Cultivation per hectare (in Rs.) of Ginger during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|----------------|
| 1 | Hired human labour | 129196 | 108187 | 50611 | 134107 | 49526 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | 49563 | 56403 | 49732 | 39014 | 85831 |
| 5 | Farmyard manure and chemical fertilizers | 26148 | 24337 | 8073 | 42580 | 26782 |
| 6 | Plant protection | | | 76 | 464 | |
| 7 | Land tax and irrigation cess | 200 | 415 | 98 | 214 | 620 |
| 8 | Repair and maintenance charges of implements, machinery and building | 306 | 4583 | 1381 | | 327 |
| 9 | Interest on working capital | 20491 | 18893 | 10849 | 21617 | 16214 |
| 10 | Other expenses | 21053 | 6127 | 4081 | 5160 | 7197 |
| 11 | Total cost 'A' (1-10) | 246957 | 218945 | 124901 | 243157 | 186497 |
| 12 | Interest on fixed capital | 1711 | 2906 | 840 | 2295 | 745 |
| 13 | Cost 'B1' (11+12) | 248668 | 221850 | 125742 | 245452 | 187242 |
| 14 | Interest on land value | 402312 | 162555 | 160550 | 212810 | 784655 |
| 15 | Cost 'B' (13+14) | 650980 | 384405 | 286292 | 458262 | 971897 |
| 16 | Imputed value of household labour | 69414 | 68511 | 32770 | 71994 | 64608 |
| 17 | Cost 'C' (15+16) | 720394 | 452916 | 319061 | 530256 | 1036506 |

A2.9 District wise Cost of Cultivation per hectare (in Rs) of Ginger during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 55226 | 42886 | 55859 | 37710 | 71308 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 1678 | | | 4868 | 747 |
| 4 | Seed / seedlings | 49722 | 32685 | 31566 | 19321 | 23178 |
| 5 | Farmyard manure and chemical fertilizers | 7427 | 61765 | 24985 | 12789 | 13855 |
| 6 | Plant protection | | 687 | 861 | 3634 | |
| 7 | Land tax and irrigation cess | 7 | 157 | 261 | 62 | 267 |
| 8 | Repair and maintenance charges of implements, machinery and building | 201 | 281 | 70 | | 1269 |
| 9 | Interest on working capital | 11405 | 13802 | 11327 | 7832 | 10909 |
| 10 | Other expenses | 7182 | 16421 | 8947 | 30003 | 5003 |
| 11 | Total cost 'A' (1-10) | 132849 | 168686 | 133876 | 116219 | 126536 |
| 12 | Interest on fixed capital | 17876 | 544 | 1050 | 13616 | 39426 |
| 13 | Cost 'B1' (11+12) | 150725 | 169230 | 134926 | 129835 | 165962 |
| 14 | Interest on land value | 323577 | 381632 | 528597 | 83620 | 227588 |
| 15 | Cost 'B' (13+14) | 474303 | 550861 | 663523 | 213455 | 393549 |
| 16 | Imputed value of household labour | 65294 | 47192 | 81592 | 13096 | 30961 |
| 17 | Cost 'C' (15+16) | 539596 | 598054 | 745115 | 226551 | 424511 |

A2.9 District wise Cost of Cultivation per hectare (in Rs) of Ginger during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 69207 | 164643 | 109024 | 38802 | 73666 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 10098 | 10996 | 2494 |
| 4 | Seed / seedlings | 102695 | 224671 | 64126 | 72946 | 63120 |
| 5 | Farmyard manure and chemical fertilizers | 44470 | 49019 | 48792 | 48055 | 28677 |
| 6 | Plant protection | 2288 | 4425 | | | 1434 |
| 7 | Land tax and irrigation cess | 330 | 409 | 248 | 381 | 245 |
| 8 | Repair and maintenance charges of implements, machinery and building | 31 | 3317 | 29 | 325 | 839 |
| 9 | Interest on working capital | 21866 | 44276 | 23204 | 17080 | 16939 |
| 10 | Other expenses | 12620 | 26447 | 28403 | 3928 | 16774 |
| 11 | Total cost 'A' (1-10) | 253507 | 517207 | 283923 | 192513 | 204188 |
| 12 | Interest on fixed capital | 654 | 3067 | 469 | 1763 | 5486 |
| 13 | Cost 'B1' (11+12) | 254161 | 520274 | 284393 | 194275 | 209674 |
| 14 | Interest on land value | 143481 | 124389 | 170524 | 229605 | 254551 |
| 15 | Cost 'B' (13+14) | 397642 | 644663 | 454917 | 423881 | 464225 |
| 16 | Imputed value of household labour | 42193 | 54111 | 49902 | 54648 | 46319 |
| 17 | Cost 'C' (15+16) | 439835 | 698773 | 504819 | 478529 | 510544 |

A 2.10 District wise Cost of Cultivation per hectare (in Rs.) of Turmeric during 2019-20

| Sl No | Components | Thiruvanan thapuram | Kollam | Pathanamt hitta | Alappuzha | Kottayam |
|-----------|---|------------------------|---------------|--------------------|---------------|---------------|
| 1 | Hired human labour | 95835 | 57687 | 54956 | 132805 | 40446 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | 11103 | 21220 | 7968 | 21438 | 30460 |
| 5 | Farmyard manure and chemical fertilizers | 45783 | 16454 | 13756 | 35173 | 23395 |
| 6 | Plant protection | | | | 1291 | |
| 7 | Land tax and irrigation cess | 365 | 424 | 91 | 269 | 562 |
| 8 | Repair and maintenance charges of implements, machinery and building | 289 | 4931 | 1570 | | 407 |
| 9 | Interest on working capital | 15272 | 9536 | 7668 | 19071 | 9430 |
| 10 | Other expenses | 12959 | 5257 | 4866 | 17875 | 9358 |
| 11 | Total cost 'A' (1-10) | 181606 | 115510 | 90875 | 227922 | 114058 |
| 12 | Interest on fixed capital | 1438 | 3051 | 794 | 3696 | 973 |
| 13 | Cost 'B1' (11+12) | 183044 | 118561 | 91669 | 231618 | 115031 |
| 14 | Interest on land value | 281069 | 220168 | 144892 | 225233 | 679752 |
| 15 | Cost 'B' (13+14) | 464113 | 338728 | 236561 | 456851 | 794783 |
| 16 | Imputed value of household labour | 80272 | 43086 | 44737 | 75584 | 109116 |
| 17 | Cost 'C' (15+16) | 544384 | 381815 | 281297 | 532436 | 903900 |

A2.10 District wise Cost of Cultivation per hectare (in Rs) of Turmeric during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 71127 | 62312 | 55286 | 24522 | 69279 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 2633 | | 5744 | 3141 | 1512 |
| 4 | Seed / seedlings | 32462 | 22735 | 20774 | 17802 | 11417 |
| 5 | Farmyard manure and chemical fertilizers | 17172 | 52844 | 13332 | 13703 | 16389 |
| 6 | Plant protection | 348 | | 664 | 837 | |
| 7 | Land tax and irrigation cess | 62 | 221 | 202 | 79 | 569 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 261 | 56 | | 997 |
| 9 | Interest on working capital | 12374 | 13789 | 9580 | 6000 | 9860 |
| 10 | Other expenses | 11692 | 14510 | 8469 | 13075 | 3017 |
| 11 | Total cost 'A' (1-10) | 147870 | 166671 | 114106 | 79159 | 113040 |
| 12 | Interest on fixed capital | 7484 | 635 | 381 | 8871 | 6676 |
| 13 | Cost 'B1' (11+12) | 155354 | 167306 | 114486 | 88030 | 119716 |
| 14 | Interest on land value | 379107 | 304122 | 682667 | 80925 | 214738 |
| 15 | Cost 'B' (13+14) | 534461 | 471428 | 797153 | 168955 | 334454 |
| 16 | Imputed value of household labour | 35374 | 55407 | 49452 | 53665 | 37802 |
| 17 | Cost 'C' (15+16) | 569834 | 526836 | 846605 | 222621 | 372255 |

A2.10 District wise Cost of Cultivation per hectare (in Rs) of Turmeric during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 33491 | 35321 | 72101 | 45796 | 60674 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 782 | | | 11478 | 2426 |
| 4 | Seed / seedlings | 38212 | 38828 | 40732 | 42914 | 21697 |
| 5 | Farmyard manure and chemical fertilizers | 33079 | 34427 | 33550 | 37001 | 24217 |
| 6 | Plant protection | | | | | 240 |
| 7 | Land tax and irrigation cess | 501 | 494 | 506 | 300 | 300 |
| 8 | Repair and maintenance charges of implements, machinery and building | 104 | 18006 | 155 | 583 | 1040 |
| 9 | Interest on working capital | 10556 | 10858 | 14638 | 13719 | 10925 |
| 10 | Other expenses | 3387 | | 7774 | 2366 | 8146 |
| 11 | Total cost 'A' (1-10) | 120113 | 137934 | 169457 | 154157 | 129665 |
| 12 | Interest on fixed capital | 1203 | 12988 | 1961 | 4852 | 2687 |
| 13 | Cost 'B1' (11+12) | 121316 | 150922 | 171417 | 159010 | 132352 |
| 14 | Interest on land value | 182071 | 130478 | 157325 | 171677 | 348304 |
| 15 | Cost 'B' (13+14) | 303387 | 281399 | 328742 | 330687 | 480656 |
| 16 | Imputed value of household labour | 66680 | 124179 | 103700 | 53866 | 59355 |
| 17 | Cost 'C' (15+16) | 370067 | 405579 | 432442 | 384552 | 540011 |

A 2.11 District wise Cost of Cultivation per hectare (in Rs.) of Pineapple during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|----------------|---------------|
| 1 | Hired human labour | 120698 | 83650 | 17093 | 52700 | 54950 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | 173386 | 43195 | 27979 | 43801 | 92067 |
| 5 | Farmyard manure and chemical fertilizers | 48126 | 16855 | 8072 | | 43595 |
| 6 | Plant protection | | 141 | 1171 | | 9612 |
| 7 | Land tax and irrigation cess | 15 | 508 | 5 | 626 | 180 |
| 8 | Repair and maintenance charges of implements, machinery and building | 221 | 2367 | 128 | | 28 |
| 9 | Interest on working capital | 34221 | 14384 | 5432 | 9650 | 20022 |
| 10 | Other expenses | 20995 | 3984 | 25685 | | 45214 |
| 11 | Total cost 'A' (1-10) | 397663 | 165082 | 85565 | 106777 | 265668 |
| 12 | Interest on fixed capital | 260 | 1248 | 211 | 542 | 51 |
| 13 | Cost 'B1' (11+12) | 397923 | 166330 | 85776 | 107319 | 265719 |
| 14 | Interest on land value | 322767 | 102550 | 154134 | 988000 | 472687 |
| 15 | Cost 'B' (13+14) | 720690 | 268880 | 239910 | 1095319 | 738407 |
| 16 | Imputed value of household labour | 41033 | 15092 | 11844 | | 32244 |
| 17 | Cost 'C' (15+16) | 761723 | 283972 | 251755 | 1095319 | 770651 |

A2.11 District wise Cost of Cultivation per hectare (in Rs) of Pine apple during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-----------|--|---------------|----------------|---------------|---------------|---------------|
| 1 | Hired human labour | 36700 | 43215 | 51495 | 67525 | 46356 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | 6308 | 106 | 7156 | 24416 | 16391 |
| 4 | Seed / seedlings | 28356 | 145671 | 103264 | 161677 | 84247 |
| 5 | Farmyard manure and chemical fertilizers | 6859 | 82689 | 14269 | 41501 | 30841 |
| 6 | Plant protection | 5171 | 9012 | 876 | 469 | 3688 |
| 7 | Land tax and irrigation cess | 15 | 21 | 76 | 462 | 15 |
| 8 | Repair and maintenance charges of implements, machinery and building | 9 | 116 | 174 | | 5443 |
| 9 | Interest on working capital | 8339 | 28069 | 17706 | 29559 | 18152 |
| 10 | Other expenses | 88389 | 116803 | 19368 | 1990 | 22551 |
| 11 | Total cost 'A' (1-10) | 180146 | 425704 | 214385 | 327599 | 227686 |
| 12 | Interest on fixed capital | 135 | 222 | 928 | 4286 | 3480 |
| 13 | Cost 'B1' (11+12) | 180281 | 425925 | 215313 | 331885 | 231166 |
| 14 | Interest on land value | 322501 | 1046932 | 497325 | 252992 | 186727 |
| 15 | Cost 'B' (13+14) | 502782 | 1472857 | 712638 | 584877 | 417893 |
| 16 | Imputed value of household labour | 2358 | 6224 | 4507 | 1813 | 9344 |
| 17 | Cost 'C' (15+16) | 505141 | 1479081 | 717145 | 586690 | 427236 |

A2.11 District wise Cost of Cultivation per hectare (in Rs) of pineapple during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-----------|--|---------------|---------|---------------|---------------|---------------|
| 1 | Hired human labour | 60729 | | 32667 | 53810 | 47719 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 9173 | 13116 | 3397 |
| 4 | Seed / seedlings | 98253 | | 74332 | 106106 | 89838 |
| 5 | Farmyard manure and chemical fertilizers | 25392 | | 20544 | 29148 | 33492 |
| 6 | Plant protection | 3491 | | 232 | 347 | 5649 |
| 7 | Land tax and irrigation cess | 153 | | 10 | 463 | 105 |
| 8 | Repair and maintenance charges of implements, machinery and building | 9 | | 1 | 211 | 148 |
| 9 | Interest on working capital | 18786 | | 13695 | 20253 | 18010 |
| 10 | Other expenses | 24354 | | 23693 | 3466 | 46969 |
| 11 | Total cost 'A' (1-10) | 231167 | | 174348 | 226919 | 245327 |
| 12 | Interest on fixed capital | 68 | | 1727 | 5301 | 536 |
| 13 | Cost 'B1' (11+12) | 231235 | | 176076 | 232220 | 245863 |
| 14 | Interest on land value | 130217 | | 89479 | 204493 | 460919 |
| 15 | Cost 'B' (13+14) | 361452 | | 265555 | 436713 | 706782 |
| 16 | Imputed value of household labour | 5687 | | 1240 | 24206 | 15980 |
| 17 | Cost 'C' (15+16) | 367140 | | 266795 | 460919 | 722762 |

**A 2.12 District wise Cost of Cultivation per hectare (in Rs.) of Bitter Gourd (Autumn) during
2019-20**

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|----------------|
| 1 | Hired human labour | 103967 | 135285 | 50254 | 77665 | 85223 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 441 | |
| 4 | Seed / seedlings | 2986 | 5081 | 10168 | 3444 | 4016 |
| 5 | Farmyard manure and chemical fertilizers | 44846 | 45087 | 10532 | 76482 | 39601 |
| 6 | Plant protection | 1865 | 1110 | 1574 | 3276 | 3917 |
| 7 | Land tax and irrigation cess | 101 | 498 | 80 | 219 | 452 |
| 8 | Repair and maintenance charges of implements, machinery and building | 466 | 5578 | 2131 | | 884 |
| 9 | Interest on working capital | 15366 | 18656 | 7253 | 16131 | 13276 |
| 10 | Other expenses | 70028 | 20291 | 55329 | 49321 | 34676 |
| 11 | Total cost 'A' (1-10) | 239625 | 231586 | 137320 | 226980 | 182045 |
| 12 | Interest on fixed capital | 2957 | 2042 | 2551 | 2125 | 111 |
| 13 | Cost 'B1' (11+12) | 242582 | 233628 | 139871 | 229105 | 182157 |
| 14 | Interest on land value | 362227 | 135956 | 330632 | 144624 | 754027 |
| 15 | Cost 'B' (13+14) | 604809 | 369585 | 470503 | 373728 | 936183 |
| 16 | Imputed value of household labour | 262704 | 71555 | 55257 | 70645 | 104423 |
| 17 | Cost 'C' (15+16) | 867513 | 441139 | 525760 | 444373 | 1040606 |

**A2.12 District wise Cost of Cultivation per hectare (in Rs) of bitter gourd(Autumn) during
2019-20**

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappura m |
|-------|--|--------|-----------|----------|----------|-------------|
| 1 | Hired human labour | 26662 | 29756 | 29769 | 57053 | |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | 11702 | 8444 | | |
| 4 | Seed / seedlings | 11847 | 4898 | 13359 | 6159 | |
| 5 | Farmyard manure and chemical fertilizers | 40066 | 10049 | 12236 | 13591 | |
| 6 | Plant protection | 8323 | 1684 | 2646 | 2853 | |
| 7 | Land tax and irrigation cess | 11110 | 245 | 123 | 69 | |
| 8 | Repair and maintenance charges of implements, machinery and building | 566 | 134 | | 1035 | |
| 9 | Interest on working capital | 8690 | 5809 | 6645 | 7966 | |
| 10 | Other expenses | 55928 | 55453 | 22930 | 26412 | |
| 11 | Total cost 'A' (1-10) | 163192 | 119730 | 96152 | 115137 | |
| 12 | Interest on fixed capital | 3315 | 646 | 18010 | 1137 | |
| 13 | Cost 'B1' (11+12) | 166507 | 120376 | 114162 | 116274 | |
| 14 | Interest on land value | 269993 | 491356 | 94187 | 225788 | |
| 15 | Cost 'B' (13+14) | 436500 | 611732 | 208350 | 342062 | |
| 16 | Imputed value of household labour | 34981 | 62437 | 13659 | 77885 | |
| 17 | Cost 'C' (15+16) | 471481 | 674169 | 222009 | 419947 | |

| A2.12 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd(Autumn)during 2019-20 | | | | | | |
|--|--|-----------|---------|--------|----------|--------|
| SI No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
| 1 | Hired human labour | | | 41708 | | 53424 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 17219 | | 5318 |
| 4 | Seed / seedlings | 7410 | | 6897 | | 8551 |
| 5 | Farmyard manure and chemical fertilizers | 108680 | | 42145 | | 25081 |
| 6 | Plant protection | 19760 | | 522 | | 2857 |
| 7 | Land tax and irrigation cess | | | 136 | | 1121 |
| 8 | Repair and maintenance charges of implements, machinery and building | 1235 | | 77 | | 823 |
| 9 | Interest on working capital | 13585 | | 10849 | | 9523 |
| 10 | Other expenses | 54340 | | 73117 | | 39123 |
| 11 | Total cost 'A' (1-10) | 205010 | | 192671 | | 145821 |
| 12 | Interest on fixed capital | 4000 | | 667 | | 7092 |
| 13 | Cost 'B1' (11+12) | 209010 | | 193338 | | 152913 |
| 14 | Interest on land value | 148200 | | 175678 | | 294611 |
| 15 | Cost 'B' (13+14) | 357210 | | 369017 | | 447524 |
| 16 | Imputed value of household labour | 114608 | | 47453 | | 61248 |
| 17 | Cost 'C' (15+16) | 471818 | | 416469 | | 508772 |

A 2.13 District wise Cost of Cultivation per hectare (in Rs.) of Bitter Gourd (Winter) during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 101737 | 111037 | 39255 | 79487 | 88984 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | 5937 | 6488 | 9830 | 3947 | 5654 |
| 5 | Farmyard manure and chemical fertilizers | 1894 | 1071 | 1022 | 3161 | 3507 |
| 6 | Plant protection | 44886 | 31563 | 9727 | 73796 | 42884 |
| 7 | Land tax and irrigation cess | 87 | 339 | 131 | 187 | 522 |
| 8 | Repair and maintenance charges of implements, machinery and building | 219 | 6279 | 1103 | | 387 |
| 9 | Interest on working capital | 15445 | 15016 | 5983 | 16039 | 14103 |
| 10 | Other expenses | 116309 | 29719 | 50690 | 48839 | 32292 |
| 11 | Total cost 'A' (1-10) | 286515 | 201514 | 117742 | 225456 | 188333 |
| 12 | Interest on fixed capital | 1778 | 3604 | 5074 | 1784 | 588 |
| 13 | Cost 'B1' (11+12) | 288292 | 205118 | 122816 | 227240 | 188920 |
| 14 | Interest on land value | 304656 | 114147 | 176128 | 98506 | 540823 |
| 15 | Cost 'B' (13+14) | 592948 | 319265 | 298944 | 325746 | 729743 |
| 16 | Imputed value of household labour | 231346 | 69976 | 63943 | 78031 | 100766 |
| 17 | Cost 'C' (15+16) | 824294 | 389241 | 362887 | 403777 | 830510 |

**A2.13 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd(Winter) during
2019-20**

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 51461 | 35025 | 53948 | 24838 | 50369 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 409 | 6240 | |
| 4 | Seed / seedlings | 4698 | 3232 | 9471 | 11669 | 9589 |
| 5 | Farmyard manure and chemical fertilizers | 2075 | 4840 | 2866 | 2813 | 8040 |
| 6 | Plant protection | 8293 | 50802 | 16568 | 9614 | 28252 |
| 7 | Land tax and irrigation cess | 99 | 97 | 179 | 94 | |
| 8 | Repair and maintenance charges of implements, machinery and building | 274 | 946 | 368 | | 1134 |
| 9 | Interest on working capital | 6653 | 9390 | 8326 | 5517 | 9625 |
| 10 | Other expenses | 49345 | 30007 | 28977 | 20863 | 38525 |
| 11 | Total cost 'A' (1-10) | 122897 | 134339 | 121112 | 81648 | 145534 |
| 12 | Interest on fixed capital | 8973 | 8066 | 15430 | 17498 | 3315 |
| 13 | Cost 'B1' (11+12) | 131870 | 142405 | 136542 | 99146 | 148849 |
| 14 | Interest on land value | 250856 | 474930 | 424097 | 87343 | 174364 |
| 15 | Cost 'B' (13+14) | 382726 | 617334 | 560639 | 186490 | 323213 |
| 16 | Imputed value of household labour | 55090 | 45717 | 84417 | 17798 | 39083 |
| 17 | Cost 'C' (15+16) | 437816 | 663052 | 645056 | 204288 | 362296 |

**A2.13 District wise Cost of Cultivation per hectare (in Rs) of Bitter gourd(Winter)during
2019-20**

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 21499 | | 68245 | 45984 | 54839 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 5778 | 14395 | 2311 |
| 4 | Seed / seedlings | 13811 | 5866 | 4659 | 4768 | 8608 |
| 5 | Farmyard manure and chemical fertilizers | 3705 | 9386 | | | 3690 |
| 6 | Plant protection | 19287 | 18476 | 36619 | 41895 | 26300 |
| 7 | Land tax and irrigation cess | 51 | 494 | 261 | 2599 | 186 |
| 8 | Repair and maintenance charges of implements, machinery and building | 4322 | 36309 | 156 | 3551 | 895 |
| 9 | Interest on working capital | 5830 | 3373 | 11530 | 10704 | 9575 |
| 10 | Other expenses | 24124 | 21860 | 40163 | 24165 | 38392 |
| 11 | Total cost 'A' (1-10) | 92631 | 95763 | 167411 | 148063 | 144796 |
| 12 | Interest on fixed capital | 847 | 43625 | 12466 | 99437 | 9720 |
| 13 | Cost 'B1' (11+12) | 93478 | 139388 | 179877 | 247500 | 154516 |
| 14 | Interest on land value | 170842 | 60639 | 219661 | 194552 | 221717 |
| 15 | Cost 'B' (13+14) | 264319 | 200027 | 399539 | 442052 | 376233 |
| 16 | Imputed value of household labour | 54340 | 271700 | 52193 | 182446 | 64736 |
| 17 | Cost 'C' (15+16) | 318659 | 471727 | 451731 | 624499 | 440969 |

A 2.14 District wise Cost of Cultivation per hectare (in Rs.) of Bitter Gourd (Summer) during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 109726 | 99425 | 39282 | 131351 | 67562 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | | |
| 4 | Seed / seedlings | 3999 | 7650 | 8717 | 5123 | 4940 |
| 5 | Farmyard manure and chemical fertilizers | 44007 | 34893 | 15829 | 84086 | 27279 |
| 6 | Plant protection | 1067 | 631 | 893 | 4959 | 4841 |
| 7 | Land tax and irrigation cess | 52 | 402 | 56 | 256 | |
| 8 | Repair and maintenance charges of implements, machinery and building | 302 | 7175 | 3077 | | |
| 9 | Interest on working capital | 15880 | 14260 | 6472 | 22552 | 10462 |
| 10 | Other expenses | 58631 | 27427 | 31261 | 34689 | 17313 |
| 11 | Total cost 'A' (1-10) | 233664 | 191863 | 105586 | 283016 | 132398 |
| 12 | Interest on fixed capital | 1837 | 4547 | 3123 | 3944 | 29 |
| 13 | Cost 'B1' (11+12) | 235501 | 196409 | 108709 | 286960 | 132427 |
| 14 | Interest on land value | 348732 | 51705 | 132815 | 171136 | 170519 |
| 15 | Cost 'B' (13+14) | 584233 | 248114 | 241524 | 458095 | 302946 |
| 16 | Imputed value of household labour | 302176 | 67929 | 82488 | 99682 | 180891 |
| 17 | Cost 'C' (15+16) | 886409 | 316043 | 324012 | 557778 | 483837 |

A2.14 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd(Summer)during 2019-20

| SI No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | | 20770 | 34524 | 30628 | 51480 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | 1417 | | | 1639 |
| 4 | Seed / seedlings | | 3266 | 9646 | 8744 | 6765 |
| 5 | Farmyard manure and chemical fertilizers | | 36913 | 18675 | 5467 | 15392 |
| 6 | Plant protection | | 6726 | 1691 | 1544 | 3545 |
| 7 | Land tax and irrigation cess | | 119 | 229 | 290 | 106 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 859 | 387 | | 5935 |
| 9 | Interest on working capital | | 6909 | 6454 | 4638 | 7882 |
| 10 | Other expenses | | 71646 | 36556 | 21168 | 38012 |
| 11 | Total cost 'A' (1-10) | | 148626 | 108162 | 72479 | 130756 |
| 12 | Interest on fixed capital | | 1783 | 15583 | 8500 | 18022 |
| 13 | Cost 'B1' (11+12) | | 150409 | 123745 | 80979 | 148778 |
| 14 | Interest on land value | | 229737 | 275203 | 170214 | 263803 |
| 15 | Cost 'B' (13+14) | | 380146 | 398948 | 251193 | 412581 |
| 16 | Imputed value of household labour | | 29231 | 116817 | 43968 | 59504 |
| 17 | Cost 'C' (15+16) | | 409377 | 515765 | 295162 | 472085 |

A2.14 District wise Cost of Cultivation per hectare (in Rs) of Bitter Gourd(summer)during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | 7333 | 22230 | 75851 | 24854 | 58825 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 12883 | 731 |
| 4 | Seed / seedlings | 10742 | 9880 | 6793 | 5412 | 6593 |
| 5 | Farmyard manure and chemical fertilizers | 20232 | 23280 | 34490 | 41210 | 30831 |
| 6 | Plant protection | 4889 | 5187 | | | 2767 |
| 7 | Land tax and irrigation cess | 51 | 494 | | 2439 | 210 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 46930 | | 5431 | 2406 |
| 9 | Interest on working capital | 4320 | 6058 | 11713 | 8436 | 9975 |
| 10 | Other expenses | 25549 | 14203 | 67139 | 24144 | 44492 |
| 11 | Total cost 'A' (1-10) | 73115 | 128261 | 195987 | 124809 | 156830 |
| 12 | Interest on fixed capital | 974 | 98375 | 21409 | 96400 | 9320 |
| 13 | Cost 'B1' (11+12) | 74090 | 226636 | 217396 | 221209 | 166150 |
| 14 | Interest on land value | 163457 | 48165 | 126195 | 416493 | 220528 |
| 15 | Cost 'B' (13+14) | 237547 | 274801 | 343590 | 637703 | 386678 |
| 16 | Imputed value of household labour | 107779 | 224770 | 162751 | 219207 | 120538 |
| 17 | Cost 'C' (15+16) | 345327 | 499571 | 506341 | 856910 | 507216 |

A 2.15 District wise Cost of Cultivation per hectare (in Rs.) of Cowpea (Autumn) during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|----------------|
| 1 | Hired human labour | 88229 | 113878 | 42370 | 90488 | 65478 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 475 | |
| 4 | Seed / seedlings | 2704 | 4536 | 5744 | 6620 | 5158 |
| 5 | Farmyard manure and chemical fertilizers | 51741 | 45170 | 9132 | 38046 | 35178 |
| 6 | Plant protection | 2054 | 1173 | 1636 | 5734 | 2979 |
| 7 | Land tax and irrigation cess | 207 | 437 | 85 | 255 | 699 |
| 8 | Repair and maintenance charges of implements, machinery and building | 472 | 4324 | 2105 | | 1262 |
| 9 | Interest on working capital | 14473 | 16476 | 5888 | 14136 | 10879 |
| 10 | Other expenses | 65694 | 24048 | 43429 | 85420 | 28341 |
| 11 | Total cost 'A' (1-10) | 225573 | 210043 | 110389 | 241175 | 149973 |
| 12 | Interest on fixed capital | 2441 | 2488 | 2614 | 4355 | 643 |
| 13 | Cost 'B1' (11+12) | 228014 | 212531 | 113003 | 245530 | 150617 |
| 14 | Interest on land value | 316232 | 104110 | 288565 | 101005 | 1007635 |
| 15 | Cost 'B' (13+14) | 544246 | 316641 | 401568 | 346535 | 1158252 |
| 16 | Imputed value of household labour | 206653 | 71923 | 58931 | 89653 | 98388 |
| 17 | Cost 'C' (15+16) | 750899 | 388564 | 460499 | 436187 | 1256640 |

A2.15 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Autumn)during 2019-20

| SI No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | | 88601 | 38377 | 28600 | 46478 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 10736 | 8128 | 255 |
| 4 | Seed / seedlings | | 6441 | 2581 | 4536 | 3145 |
| 5 | Farmyard manure and chemical fertilizers | | 61320 | 13256 | 11465 | 9753 |
| 6 | Plant protection | | 3134 | 2760 | 2850 | 1599 |
| 7 | Land tax and irrigation cess | | 133 | 226 | 105 | 41 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 345 | 194 | | 987 |
| 9 | Interest on working capital | | 15950 | 6771 | 5558 | 6123 |
| 10 | Other expenses | | 9521 | 59870 | 16979 | 18375 |
| 11 | Total cost 'A' (1-10) | | 185445 | 134770 | 78221 | 86756 |
| 12 | Interest on fixed capital | | 1907 | 657 | 31733 | 1722 |
| 13 | Cost 'B1' (11+12) | | 187351 | 135427 | 109954 | 88479 |
| 14 | Interest on land value | | 475860 | 419737 | 120069 | 257152 |
| 15 | Cost 'B' (13+14) | | 663211 | 555164 | 230023 | 345630 |
| 16 | Imputed value of household labour | | 38059 | 52916 | 17236 | 58139 |
| 17 | Cost 'C' (15+16) | | 701271 | 608080 | 247259 | 403770 |

A2.15 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Autumn) during 2019-20

| SI No | Components | Kozhikode | Wayanad | Kannur | Kasargod | State |
|-------|--|-----------|---------|--------|----------|--------|
| 1 | Hired human labour | | | 56066 | | 58572 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 27404 | | 5935 |
| 4 | Seed / seedlings | 7410 | | 7083 | | 4671 |
| 5 | Farmyard manure and chemical fertilizers | 74100 | | 11817 | | 24168 |
| 6 | Plant protection | 11856 | | 6 | | 2268 |
| 7 | Land tax and irrigation cess | | | 93 | | 273 |
| 8 | Repair and maintenance charges of implements, machinery and building | | | 40 | | 1035 |
| 9 | Interest on working capital | 9337 | | 10238 | | 9561 |
| 10 | Other expenses | 39520 | | 62307 | | 36806 |
| 11 | Total cost 'A' (1-10) | 142223 | | 175054 | | 143289 |
| 12 | Interest on fixed capital | 4000 | | 484 | | 8691 |
| 13 | Cost 'B1' (11+12) | 146223 | | 175538 | | 151980 |
| 14 | Interest on land value | 148200 | | 110602 | | 348267 |
| 15 | Cost 'B' (13+14) | 294423 | | 286140 | | 500247 |
| 16 | Imputed value of household labour | 138320 | | 28047 | | 64371 |
| 17 | Cost 'C' (15+16) | 432743 | | 314187 | | 564618 |

A 2.16 District wise Cost of Cultivation per hectare (in Rs.) of Cowpea (Winter) during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamtitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 105357 | 101790 | 48909 | 101670 | 52213 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 363 | |
| 4 | Seed / seedlings | 3166 | 7134 | 5878 | 8215 | 4343 |
| 5 | Farmyard manure and chemical fertilizers | 48945 | 32503 | 9928 | 51101 | 36430 |
| 6 | Plant protection | 2551 | 1189 | 1665 | 4866 | 3435 |
| 7 | Land tax and irrigation cess | 56 | 335 | 85 | 287 | 600 |
| 8 | Repair and maintenance charges of implements, machinery and building | 341 | 6730 | 1580 | | 946 |
| 9 | Interest on working capital | 16002 | 14262 | 6638 | 16621 | 9642 |
| 10 | Other expenses | 74637 | 25460 | 45822 | 56598 | 30319 |
| 11 | Total cost 'A' (1-10) | 251055 | 189403 | 120506 | 239721 | 137928 |
| 12 | Interest on fixed capital | 1961 | 3824 | 3201 | 3012 | 709 |
| 13 | Cost 'B1' (11+12) | 253016 | 193227 | 123707 | 242733 | 138637 |
| 14 | Interest on land value | 359350 | 111367 | 218272 | 77151 | 670965 |
| 15 | Cost 'B' (13+14) | 612366 | 304593 | 341979 | 319884 | 809602 |
| 16 | Imputed value of household labour | 162269 | 77066 | 58591 | 100057 | 132614 |
| 17 | Cost 'C' (15+16) | 774635 | 381660 | 400570 | 419941 | 942216 |

A2.16 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Winter)during 2019-20

| SI No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | 41988 | 35780 | 48054 | 32736 | 30278 |
| 2 | Animal labour | | | | 330 | |
| 3 | Machine labour | 3849 | | 7045 | 5364 | |
| 4 | Seed / seedlings | 4844 | 10964 | 3408 | 4469 | 6010 |
| 5 | Farmyard manure and chemical fertilizers | 6107 | 51015 | 18198 | 11572 | 16037 |
| 6 | Plant protection | 1599 | 3361 | 2097 | 3306 | 3263 |
| 7 | Land tax and irrigation cess | 85 | 91 | 189 | 66 | 4 |
| 8 | Repair and maintenance charges of implements, machinery and building | 962 | 217 | 188 | | 2804 |
| 9 | Interest on working capital | 5839 | 10112 | 7880 | 5778 | 5559 |
| 10 | Other expenses | 20883 | 15116 | 29279 | 34018 | 23706 |
| 11 | Total cost 'A' (1-10) | 86156 | 126657 | 116340 | 97639 | 87661 |
| 12 | Interest on fixed capital | 9449 | 5304 | 6562 | 38826 | 6531 |
| 13 | Cost 'B1' (11+12) | 95606 | 131961 | 122902 | 136466 | 94192 |
| 14 | Interest on land value | 248123 | 209835 | 406225 | 79270 | 264144 |
| 15 | Cost 'B' (13+14) | 343729 | 341796 | 529126 | 215736 | 358336 |
| 16 | Imputed value of household labour | 69250 | 47321 | 80144 | 17669 | 59297 |
| 17 | Cost 'C' (15+16) | 412978 | 389118 | 609270 | 233405 | 417633 |

A 2.16 District wise Cost of Cultivation per hectare (in Rs.) of Cowpea (Winter) during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasaragod | State |
|-----------|--|---------------|---------------|---------------|---------------|---------------|
| 1 | Hired human labour | 11644 | 57901 | 98512 | 52546 | 58441 |
| 2 | Animal labour | | | | | 51 |
| 3 | Machine labour | | | 16134 | 12506 | 3396 |
| 4 | Seed / seedlings | 8625 | 11847 | 6353 | 7592 | 5729 |
| 5 | Farmyard manure and chemical fertilizers | 15055 | 20096 | 35440 | 43838 | 26110 |
| 6 | Plant protection | | 3860 | | | 2470 |
| 7 | Land tax and irrigation cess | | 494 | 260 | 2527 | 278 |
| 8 | Repair and maintenance charges of implements, machinery and building | 196 | 6606 | 111 | 3074 | 1462 |
| 9 | Interest on working capital | 3532 | 9370 | 15644 | 11648 | 9620 |
| 10 | Other expenses | 17643 | 14717 | 36672 | 14505 | 33883 |
| 11 | Total cost 'A' (1-10) | 56696 | 124891 | 209127 | 148237 | 141440 |
| 12 | Interest on fixed capital | 789 | 8876 | 14851 | 64673 | 12148 |
| 13 | Cost 'B1' (11+12) | 57486 | 133768 | 223978 | 212910 | 153588 |
| 14 | Interest on land value | 154081 | 59452 | 105517 | 215841 | 262224 |
| 15 | Cost 'B' (13+14) | 211566 | 193220 | 329495 | 428750 | 415812 |
| 16 | Imputed value of household labour | 45675 | 166869 | 66742 | 113179 | 83263 |
| 17 | Cost 'C' (15+16) | 257242 | 360088 | 396237 | 541929 | 499075 |

A 2.17 District wise Cost of Cultivation per hectare (in Rs.) of Cowpea (Summer) during 2019-20

| Sl No | Components | Thiruvananthapuram | Kollam | Pathanamthitta | Alappuzha | Kottayam |
|-----------|--|--------------------|---------------|----------------|---------------|---------------|
| 1 | Hired human labour | 88865 | 100469 | 47360 | 74535 | 48631 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | | 13382 | |
| 4 | Seed / seedlings | 3042 | 5976 | 6501 | 3702 | 4066 |
| 5 | Farmyard manure and chemical fertilizers | 47798 | 27388 | 11340 | 60078 | 30542 |
| 6 | Plant protection | 1803 | 667 | 1644 | 2284 | 3182 |
| 7 | Land tax and irrigation cess | 88 | 438 | 85 | 251 | 485 |
| 8 | Repair and maintenance charges of implements, machinery and building | 510 | 6427 | 3321 | | 818 |
| 9 | Interest on working capital | 14151 | 13450 | 6685 | 15398 | 8642 |
| 10 | Other expenses | 49380 | 23802 | 41754 | 25892 | 24404 |
| 11 | Total cost 'A' (1-10) | 205635 | 178617 | 118689 | 195522 | 120770 |
| 12 | Interest on fixed capital | 2396 | 3860 | 7713 | 1942 | 481 |
| 13 | Cost 'B1' (11+12) | 208031 | 182477 | 126402 | 197464 | 121251 |
| 14 | Interest on land value | 281234 | 121607 | 173664 | 77323 | 220411 |
| 15 | Cost 'B' (13+14) | 489265 | 304083 | 300066 | 274787 | 341662 |
| 16 | Imputed value of household labour | 239572 | 88686 | 77315 | 137504 | 153089 |
| 17 | Cost 'C' (15+16) | 728836 | 392770 | 377381 | 412291 | 494751 |

A2.17 District wise Cost of Cultivation per hectare (in Rs) of Cowpea (Summer)during 2019-20

| Sl No | Components | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram |
|-----------|--|--------|-----------|----------|----------|------------|
| 1 | Hired human labour | | 28158 | 62870 | 28542 | 25184 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | 3705 | | | 311 |
| 4 | Seed / seedlings | | 11362 | 5797 | 3754 | 4971 |
| 5 | Farmyard manure and chemical fertilizers | | 29344 | 7499 | 9680 | 15265 |
| 6 | Plant protection | | 7163 | 1605 | 2717 | 2305 |
| 7 | Land tax and irrigation cess | | | 204 | 439 | 86 |
| 8 | Repair and maintenance charges of implements, machinery and building | | 1186 | 109 | | 4729 |
| 9 | Interest on working capital | | 7973 | 7777 | 4469 | 4804 |
| 10 | Other expenses | | 3853 | 20510 | 15643 | 23828 |
| 11 | Total cost 'A' (1-10) | | 92744 | 106371 | 65245 | 81483 |
| 12 | Interest on fixed capital | | 3250 | 8177 | 7417 | 23850 |
| 13 | Cost 'B1' (11+12) | | 95994 | 114548 | 72662 | 105333 |
| 14 | Interest on land value | | 261622 | 241195 | 235235 | 265031 |
| 15 | Cost 'B' (13+14) | | 357616 | 355743 | 307897 | 370365 |
| 16 | Imputed value of household labour | | 56761 | 78053 | 24769 | 76299 |
| 17 | Cost 'C' (15+16) | | 414377 | 433796 | 332666 | 446663 |

A 2.17 District wise Cost of Cultivation per hectare (in Rs.) of Cowpea (Summer) during 2019-20

| Sl No | Components | Kozhikode | Wayanad | Kannur | Kasaragod | State |
|-------|--|-----------|---------|--------|-----------|--------|
| 1 | Hired human labour | 4424 | 46198 | 84398 | 47828 | 59371 |
| 2 | Animal labour | | | | | |
| 3 | Machine labour | | | 14114 | 5576 | 2079 |
| 4 | Seed / seedlings | 8627 | 10463 | 9588 | 6658 | 5949 |
| 5 | Farmyard manure and chemical fertilizers | 21198 | 15011 | 28430 | 40621 | 25700 |
| 6 | Plant protection | 2064 | 2401 | | | 1856 |
| 7 | Land tax and irrigation cess | 55 | 494 | 66 | 1313 | 323 |
| 8 | Repair and maintenance charges of implements, machinery and building | 111 | 6335 | | 4173 | 2406 |
| 9 | Interest on working capital | 3631 | 7407 | 13653 | 10068 | 9495 |
| 10 | Other expenses | 17696 | 18022 | 65102 | 8878 | 28619 |
| 11 | Total cost 'A' (1-10) | 57805 | 106332 | 215351 | 125115 | 135798 |
| 12 | Interest on fixed capital | 2148 | 6441 | 3788 | 44820 | 8571 |
| 13 | Cost 'B1' (11+12) | 59954 | 112773 | 219139 | 169935 | 144369 |
| 14 | Interest on land value | 172900 | 58520 | 125920 | 211015 | 186113 |
| 15 | Cost 'B' (13+14) | 232854 | 171293 | 345059 | 380950 | 330482 |
| 16 | Imputed value of household labour | 88072 | 140310 | 65268 | 91102 | 115878 |
| 17 | Cost 'C' (15+16) | 320926 | 311602 | 410327 | 472052 | 446360 |

A 2.18 District wise Cost of Cultivation per hectare (in Rs.) of Cardamom during

2019-20

| Sl No | Components | Idukki | Palakkad | Wayanad | State |
|-------|--|--------|----------|---------|--------|
| 1 | Hired human labour | 77539 | 34444 | 78692 | 57314 |
| 02 | Animal labour | | | | |
| 3 | Machine labour | | | | |
| 4 | Seed / seedlings | | | | |
| 5 | Farmyard manure and chemical fertilizers | 39455 | 85822 | 30325 | 58009 |
| 6 | Plant protection | 38129 | 1944 | 25055 | 15441 |
| 7 | Land tax and irrigation cess | 113 | 494 | 494 | 451 |
| 8 | Repair and maintenance charges of implements, machinery and building | 4077 | | 8099 | 3754 |
| 9 | Interest on working capital | 15512 | 12221 | 13407 | 13076 |
| 10 | Other expenses | 33189 | 2538 | 18227 | 12391 |
| 11 | Total cost 'A' (1-10) | 208014 | 137463 | 174299 | 160436 |
| 12 | Interest on fixed capital | 5111 | 288 | 19159 | 8506 |
| 13 | Cost 'B1' (11+12) | 213125 | 137751 | 193458 | 168942 |
| 14 | Interest on land value | 129975 | 43775 | 153294 | 98060 |
| 15 | Cost 'B' (13+14) | 343100 | 181526 | 346752 | 267002 |
| 16 | Imputed value of household labour | 45576 | 35073 | 130105 | 74884 |
| 17 | Cost 'C' (15+16) | 388676 | 216599 | 476857 | 341886 |

A 3.1 Percentage of Hired human labour hours to total human labour hours under Autumn Paddy

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 39.57 | 38.37 | 77.94 |
| 2 | Kollam | 49.15 | 37.81 | 86.96 |
| 3 | Pathanamthitta | 40.31 | 43.86 | 84.17 |
| 4 | Alappuzha | 36.35 | 53.4 | 89.75 |
| 5 | Kottayam | 43.07 | 26.64 | 69.71 |
| 6 | Idukki | 34.63 | 34.67 | 69.3 |
| 7 | Eranakulam | 53.3 | 33.62 | 86.92 |
| 8 | Thrissur | 67.55 | 17.01 | 84.56 |
| 9 | Palakkad | 11.02 | 80.18 | 91.2 |
| 10 | Malappuram | 41.98 | 34.19 | 76.17 |
| 11 | Kozhikkode | 28.28 | 40.62 | 68.9 |
| 12 | Wayanad | | | 0 |
| 13 | Kannur | 19.28 | 46.18 | 65.46 |
| 14 | Kasaragod | 16.64 | 59.18 | 75.82 |
| | State | 38.35 | 43.58 | 81.93 |

A 3.2 Percentage of Hired human labour hours to total human labour hours under Winter Paddy

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 39.48 | 38.5 | 77.98 |
| 2 | Kollam | 37.67 | 44.39 | 82.06 |
| 3 | Pathanamthitta | 60.32 | 29.26 | 89.58 |
| 4 | Alappuzha | 27.37 | 38.59 | 65.96 |
| 5 | Kottayam | 36.12 | 30.32 | 66.44 |
| 6 | Idukki | 32.11 | 37.13 | 69.24 |
| 7 | Eranakulam | 39.84 | 41.48 | 81.32 |
| 8 | Thrissur | 52.7 | 19.24 | 71.94 |
| 9 | Palakkad | 19.2 | 65.57 | 84.77 |
| 10 | Malappuram | 50.82 | 29.53 | 80.35 |
| 11 | Kozhikkode | 25.06 | 51.12 | 76.18 |
| 12 | Wayanad | 28.09 | 54.41 | 82.5 |
| 13 | Kannur | 14.98 | 56.46 | 71.44 |
| 14 | Kasaragod | 12.68 | 45.19 | 57.87 |
| | State | 40.24 | 38.31 | 78.55 |

A 3.3 Percentage of Hired human labour hours to total human labour hours under Summer Paddy

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 35.46 | 37.7 | 73.16 |
| 2 | Kollam | 36.2 | 49.1 | 85.3 |
| 3 | Pathanamthitta | 37.02 | 42.03 | 79.05 |
| 4 | Alappuzha | 42.73 | 42.11 | 84.84 |
| 5 | Kottayam | 41.8 | 30.12 | 71.92 |
| 6 | Idukki | 62.85 | 29.79 | 92.64 |
| 7 | Eranakulam | 41.64 | 33.73 | 75.37 |
| 8 | Thrissur | 62.3 | 16.88 | 79.18 |
| 9 | Palakkad | 11.33 | 74.69 | 86.02 |
| 10 | Malappuram | 51.21 | 20.23 | 71.44 |
| 11 | Kozhikkode | 23.16 | 46.8 | 69.96 |
| 12 | Wayanad | 26.91 | 47.85 | 74.76 |
| 13 | Kannur | 11.04 | 63.8 | 74.84 |
| 14 | Kasaragod | 8.38 | 57.88 | 66.26 |
| | State | 37.87 | 39.35 | 77.22 |

A3.4 Percentage of Hired human labour hours to total human labour hours under Coconut

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|------------|--------------|
| 1 | Thiruvananthapuram | 71.7 | 0.39 | 72.09 |
| 2 | Kollam | 79.38 | 0 | 79.38 |
| 3 | Pathanamthitta | 77.83 | 0 | 77.83 |
| 4 | Alappuzha | 83.5 | 0.4 | 83.9 |
| 5 | Kottayam | 74.26 | 4.05 | 78.31 |
| 6 | Idukki | 50.11 | 0 | 50.11 |
| 7 | Eranakulam | 86.33 | 0 | 86.33 |
| 8 | Thrissur | 68.75 | 7.9 | 76.65 |
| 9 | Palakkad | 70.79 | 11.26 | 82.05 |
| 10 | Malappuram | 71.22 | 9.41 | 80.63 |
| 11 | Kozhikkode | 79.51 | 1.97 | 81.48 |
| 12 | Wayanad | 44.12 | 30.37 | 74.49 |
| 13 | Kannur | 61.05 | 22.78 | 83.83 |
| 14 | Kasaragod | 38.69 | 25.67 | 64.36 |
| | State | 69.66 | 8.2 | 77.86 |

A 3.5 Percentage of Hired human labour hours to total human labour hours under Arecanut

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 65.2 | 0.65 | 65.85 |
| 2 | Kollam | 82.36 | 0 | 82.36 |
| 3 | Pathanamthitta | 52.54 | 0 | 52.54 |
| 4 | Alappuzha | 20.38 | 0.55 | 20.93 |
| 5 | Kottayam | 33.25 | 0 | 33.25 |
| 6 | Idukki | 43.63 | 0 | 43.63 |
| 7 | Eranakulam | 73.83 | 5.75 | 79.58 |
| 8 | Thrissur | 46.53 | 13.23 | 59.76 |
| 9 | Palakkad | 55.81 | 24.66 | 80.47 |
| 10 | Malappuram | 65.16 | 13.84 | 79 |
| 11 | Kozhikkode | 64.31 | 7.43 | 71.74 |
| 12 | Wayanad | 63.49 | 17.76 | 81.25 |
| 13 | Kannur | 42.86 | 35.19 | 78.05 |
| 14 | Kasaragod | 33.88 | 21.56 | 55.44 |
| | State | 54.04 | 15.15 | 69.19 |

A 3.6 Percentage of Hired human labour hours to total human labour hours under Tapioca

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|--------------|
| 1 | Thiruvananthapuram | 73.84 | 0 | 73.84 |
| 2 | Kollam | 64.46 | 0 | 64.46 |
| 3 | Pathanamthitta | 53.62 | 0.53 | 54.15 |
| 4 | Alappuzha | 49.61 | 2.14 | 51.75 |
| 5 | Kottayam | 62.07 | 0 | 62.07 |
| 6 | Idukki | 52.99 | 28.13 | 81.12 |
| 7 | Eranakulam | 75.66 | 0.58 | 76.24 |
| 8 | Thrissur | 62 | 10.39 | 72.39 |
| 9 | Palakkad | 26.43 | 24.45 | 50.88 |
| 10 | Malappuram | 53.53 | 9.48 | 63.01 |
| 11 | Kozhikkode | 60.63 | 0.67 | 61.3 |
| 12 | Wayanad | 57.27 | 1.54 | 58.81 |
| 13 | Kannur | 51.67 | 17.06 | 68.73 |
| 14 | Kasaragod | 34.49 | 27.65 | 62.14 |
| | State | 58.93 | 6.01 | 64.94 |

A 3.7 Percentage of Hired human labour hours to total human labour hours under Banana

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|--------------|
| 1 | Thiruvananthapuram | 65.07 | 0 | 65.07 |
| 2 | Kollam | 76.09 | 0 | 76.09 |
| 3 | Pathanamthitta | 67.68 | 0 | 67.68 |
| 4 | Alappuzha | 55.72 | 0 | 55.72 |
| 5 | Kottayam | 42.33 | 3.8 | 46.13 |
| 6 | Idukki | 77.98 | 6.51 | 84.49 |
| 7 | Eranakulam | 87.76 | 0.97 | 88.73 |
| 8 | Thrissur | 51.64 | 9.15 | 60.79 |
| 9 | Palakkad | 45.23 | 18.05 | 63.28 |
| 10 | Malappuram | 60.3 | 0 | 60.3 |
| 11 | Kozhikkode | 73.5 | 0 | 73.5 |
| 12 | Wayanad | 47.02 | 0 | 47.02 |
| 13 | Kannur | 37.8 | 42.11 | 79.91 |
| 14 | Kasaragod | 16.61 | 17.69 | 34.3 |
| | State | 58.87 | 6.15 | 65.02 |

A 3.8 Percentage of Hired human labour hours to total human labour hours under Pepper

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|-------------|
| 1 | Thiruvananthapuram | 75.48 | 0 | 75.48 |
| 2 | Kollam | 69.55 | 0 | 69.55 |
| 3 | Pathanamthitta | 65.74 | 0 | 65.74 |
| 4 | Alappuzha | 36.39 | 0.33 | 36.72 |
| 5 | Kottayam | 51.41 | 4.34 | 55.75 |
| 6 | Idukki | 47.58 | 13.59 | 61.17 |
| 7 | Eranakulam | 60.06 | 1.79 | 61.85 |
| 8 | Thrissur | 56.2 | 9.05 | 65.25 |
| 9 | Palakkad | 44.42 | 11.76 | 56.18 |
| 10 | Malappuram | 63.32 | 8.71 | 72.03 |
| 11 | Kozhikkode | 55.15 | 0 | 55.15 |
| 12 | Wayanad | 56.94 | 8.58 | 65.52 |
| 13 | Kannur | 70.89 | 4.26 | 75.15 |
| 14 | Kasaragod | 23.91 | 18.8 | 42.71 |
| | State | 58.33 | 5.47 | 63.8 |

A 3.9 Percentage of Hired human labour hours to total human labour hours under Ginger

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 57.97 | 0 | 57.97 |
| 2 | Kollam | 61.91 | 0 | 61.91 |
| 3 | Pathanamthitta | 60.84 | 0 | 60.84 |
| 4 | Alappuzha | 52.77 | 13.48 | 66.25 |
| 5 | Kottayam | 41.47 | 0.25 | 41.72 |
| 6 | Idukki | 40.73 | 3.72 | 44.45 |
| 7 | Eranakulam | 39.77 | 2.71 | 42.48 |
| 8 | Thrissur | 29.23 | 11.02 | 40.25 |
| 9 | Palakkad | 9.11 | 70.79 | 79.9 |
| 10 | Malappuram | 55.31 | 9.29 | 64.6 |
| 11 | Kozhikkode | 34.38 | 24.54 | 58.92 |
| 12 | Wayanad | 42.41 | 33.86 | 76.27 |
| 13 | Kannur | 48.47 | 21.32 | 69.79 |
| 14 | Kasaragod | 15.24 | 30.06 | 45.3 |
| | State | 38.58 | 24.48 | 63.07 |

A 3.10 Percentage of Hired human labour hours to total human labour hours under Turmeric

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 53.24 | 0 | 53.24 |
| 2 | Kollam | 57.73 | 0 | 57.73 |
| 3 | Pathanamthitta | 46.31 | 9.35 | 55.66 |
| 4 | Alappuzha | 57.54 | 4.79 | 62.33 |
| 5 | Kottayam | 26.37 | 0 | 26.37 |
| 6 | Idukki | 49.35 | 18.49 | 67.84 |
| 7 | Eranakulam | 43.82 | 2.81 | 46.63 |
| 8 | Thrissur | 31.89 | 22.02 | 53.91 |
| 9 | Palakkad | 6.09 | 33.68 | 39.77 |
| 10 | Malappuram | 45.25 | 15.84 | 61.09 |
| 11 | Kozhikkode | 23.13 | 9.21 | 32.34 |
| 12 | Wayanad | 10.32 | 14.04 | 24.36 |
| 13 | Kannur | 33.28 | 8.3 | 41.58 |
| 14 | Kasaragod | 19.05 | 27.91 | 46.96 |
| | State | 37.48 | 12.63 | 50.12 |

A 3.11 Percentage of Hired human labour hours to total human labour hours under Pineapple

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 74.36 | 0 | 74.36 |
| 2 | Kollam | 73.01 | 11.74 | 84.75 |
| 3 | Pathanamthitta | 58.33 | 0 | 58.33 |
| 4 | Alappuzha | 100 | 0 | 100 |
| 5 | Kottayam | 57.75 | 3.4 | 61.15 |
| 6 | Idukki | 84.23 | 9.67 | 93.9 |
| 7 | Eranakulam | 55.77 | 28.57 | 84.34 |
| 8 | Thrissur | 77.99 | 14.15 | 92.14 |
| 9 | Palakkad | 79.04 | 18.31 | 97.35 |
| 10 | Malappuram | 68.2 | 18.05 | 86.25 |
| 11 | Kozhikkode | 42.97 | 48.68 | 91.65 |
| 12 | Wayanad | | | 0 |
| 13 | Kannur | 65.29 | 31.1 | 96.39 |
| 14 | Kasaragod | 33.99 | 35.06 | 69.05 |
| | State | 64.05 | 10.91 | 74.96 |

A 3.12 Percentage of Hired human labour hours to total human labour hours under Bitter Gourd (Autumn)

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 28.8 | 0 | 28.8 |
| 2 | Kollam | 65.73 | 0.25 | 65.98 |
| 3 | Pathanamthitta | 47.87 | 0 | 47.87 |
| 4 | Alappuzha | 38.98 | 8.02 | 47 |
| 5 | Kottayam | 42.61 | 1.04 | 43.65 |
| 6 | Idukki | | | 0 |
| 7 | Eranakulam | 29.42 | 10.91 | 40.33 |
| 8 | Thrissur | 17.62 | 17.81 | 35.43 |
| 9 | Palakkad | 25.86 | 49.1 | 74.96 |
| 10 | Malappuram | 38.58 | 4.17 | 42.75 |
| 11 | Kozhikkode | 0 | 0 | 0 |
| 12 | Wayanad | | | 0 |
| 13 | Kannur | 18.75 | 38.74 | 57.49 |
| 14 | Kasaragod | | | 0 |
| | State | 36.24 | 14.68 | 50.92 |

A 3.13 Percentage of Hired human labour hours to total human labour hours under Bitter Gourd (Winter)

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|--------------|
| 1 | Thiruvananthapuram | 30.89 | 0 | 30.89 |
| 2 | Kollam | 62 | 0.43 | 62.43 |
| 3 | Pathanamthitta | 37.81 | 0 | 37.81 |
| 4 | Alappuzha | 46.65 | 0 | 46.65 |
| 5 | Kottayam | 41.38 | 4.56 | 45.94 |
| 6 | Idukki | 46.82 | 2.23 | 49.05 |
| 7 | Eranakulam | 29.28 | 8.14 | 37.42 |
| 8 | Thrissur | 30.84 | 9.68 | 40.52 |
| 9 | Palakkad | 20.56 | 43.76 | 64.32 |
| 10 | Malappuram | 39.65 | 15.56 | 55.21 |
| 11 | Kozhikkode | 27.39 | 2.13 | 29.52 |
| 12 | Wayanad | 0 | 0 | 0 |
| 13 | Kannur | 47.01 | 9.48 | 56.49 |
| 14 | Kasaragod | 11.22 | 9.4 | 20.62 |
| | State | 35.78 | 12.2 | 47.98 |

A 3.14 Percentage of Hired human labour hours to total human labour hours under Bitter Gourd (Summer)

| S1 No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|--------------|
| 1 | Thiruvananthapuram | 26.81 | 0 | 26.81 |
| 2 | Kollam | 60.39 | 0 | 60.39 |
| 3 | Pathanamthitta | 32.08 | 0 | 32.08 |
| 4 | Alappuzha | 52.33 | 0 | 52.33 |
| 5 | Kottayam | 24.52 | 0 | 24.52 |
| 6 | Idukki | | | 0 |
| 7 | Eranakulam | 27.41 | 11.61 | 39.02 |
| 8 | Thrissur | 15.44 | 8.01 | 23.45 |
| 9 | Palakkad | 37.73 | 3.43 | 41.16 |
| 10 | Malappuram | 33.95 | 11.92 | 45.87 |
| 11 | Kozhikkode | 5.85 | 0 | 5.85 |
| 12 | Wayanad | 8.22 | 0 | 8.22 |
| 13 | Kannur | 23.48 | 4.07 | 27.55 |
| 14 | Kasaragod | 3.94 | 7.8 | 11.74 |
| | State | 29.66 | 2.94 | 32.60 |

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 | 30.45 | 0 | 30.45 |
| 2 | Kollam | 60.36 | 1.59 | 61.95 |
| 3 | Pathanamthitta | 41.58 | 0 | 41.58 |
| 4 | Alappuzha | 41.01 | 4.87 | 45.88 |
| 5 | Kottayam | 36.86 | 2.25 | 39.11 |
| 6 | Idukki | | | 0 |
| 7 | Eranakulam | 60.91 | 0.86 | 61.77 |
| 8 | Thrissur | 16.18 | 30.14 | 46.32 |
| 9 | Palakkad | 15.35 | 56.51 | 71.86 |
| 10 | Malappuram | 42.93 | 1.82 | 44.75 |
| 11 | Kozhikkode | 0 | 0 | 0 |
| 12 | Wayanad | | | 0 |
| 13 | Kannur | 11.97 | 59.59 | 71.56 |
| 14 | Kasaragod | | | 0 |
| | State | 34.41 | 16.89 | 51.3 |

A3.16 Percentage of Hired human labour hours to total human labour hours under Cowpea (Winter)

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|--------------|--------------|
| 1 | Thiruvananthapuram | 37.53 | 0 | 37.53 |
| 2 | Kollam | 58.05 | 0.31 | 58.36 |
| 3 | Pathanamthitta | 45.42 | 0 | 45.42 |
| 4 | Alappuzha | 44.82 | 0.49 | 45.31 |
| 5 | Kottayam | 26.5 | 0 | 26.5 |
| 6 | Idukki | 33.42 | 4.02 | 37.44 |
| 7 | Eranakulam | 30.09 | 7.32 | 37.41 |
| 8 | Thrissur | 21.99 | 18.34 | 40.33 |
| 9 | Palakkad | 11.31 | 62.32 | 73.63 |
| 10 | Malappuram | 25.74 | 9.09 | 34.83 |
| 11 | Kozhikkode | 14.33 | 4.09 | 18.42 |
| 12 | Wayanad | 16.89 | 8.45 | 25.34 |
| 13 | Kannur | 30.63 | 31.71 | 62.34 |
| 14 | Kasaragod | 12.97 | 20.1 | 33.07 |
| | State | 29.38 | 13.13 | 42.51 |

A 3.17 Percentage of Hired human labour hours to total human labour hours under Cowpea (Summer)

| Sl No | District | Male | Female | Total |
|-------|--------------------|--------------|-------------|--------------|
| 1 | Thiruvananthapuram | 27.22 | 0 | 27.22 |
| 2 | Kollam | 53.88 | 0 | 53.88 |
| 3 | Pathanamthitta | 37.38 | 0 | 37.38 |
| 4 | Alappuzha | 29.23 | 0 | 29.23 |
| 5 | Kottayam | 23.37 | 0 | 23.37 |
| 6 | Idukki | | | 0 |
| 7 | Eranakulam | 21.53 | 7.18 | 28.71 |
| 8 | Thrissur | 34.61 | 11.89 | 46.5 |
| 9 | Palakkad | 45.49 | 4.71 | 50.2 |
| 10 | Malappuram | 20.65 | 4.23 | 24.88 |
| 11 | Kozhikkode | 3.79 | 0 | 3.79 |
| 12 | Wayanad | 14.18 | 10.73 | 24.91 |
| 13 | Kannur | 22.58 | 35.47 | 58.05 |
| 14 | Kasaragod | 17.24 | 16.34 | 33.58 |
| | State | 27.94 | 5.78 | 33.72 |

A 3.18 Percentage of Hired human labour hours to total human labour hours under Cardamom

| Sl No | District | Male | Female | Total |
|-------|--------------|--------------|--------------|--------------|
| 1 | Idukki | 34.79 | 29.33 | 64.12 |
| 2 | Palakkad | 31.08 | 17.95 | 49.03 |
| 3 | Wayanad | 9.13 | 32.75 | 41.88 |
| | State | 17.43 | 28.32 | 45.75 |

A4.1 District wise Value of product and by-product per hectare (in Rs.) of Autumn Paddy

| Sl No | District | Product | By Product | Total |
|-------|--------------------|--------------|-------------|---------------|
| 1 | Thiruvananthapuram | 109545 | 40014 | 149560 |
| 2 | Kollam | 76040 | 25344 | 101384 |
| 3 | Pathanamthitta | 111930 | 10365 | 122294 |
| 4 | Alappuzha | 112353 | 1171 | 113524 |
| 5 | Kottayam | 112748 | 2123 | 114871 |
| 6 | Idukki | 78791 | | 78791 |
| 7 | Eranakulam | 124717 | 8376 | 133093 |
| 8 | Thrissur | 46425 | 520 | 46945 |
| 9 | Palakkad | 130734 | 331 | 131065 |
| 10 | Malappuram | 60040 | 14694 | 74734 |
| 11 | Kozhikkode | 62667 | 9724 | 72391 |
| 12 | Wayanad | | | |
| 13 | Kannur | 74711 | 29058 | 103769 |
| 14 | Kasaragod | 77574 | 29194 | 106769 |
| | State | 92662 | 9316 | 101978 |

A4.2 District wise Value of product and by-product per hectare (in Rs.) of Winter Paddy

| Sl No | District | Product | By Product | Total |
|-------|--------------------|---------------|--------------|---------------|
| 1 | Thiruvananthapuram | 101057 | 36621 | 137678 |
| 2 | Kollam | 66468 | 23454 | 89922 |
| 3 | Pathanamthitta | 118710 | 11222 | 129932 |
| 4 | Alappuzha | 123353 | 1760 | 125113 |
| 5 | Kottayam | 135258 | 1682 | 136940 |
| 6 | Idukki | 68690 | 36275 | 104965 |
| 7 | Eranakulam | 99645 | 12393 | 112038 |
| 8 | Thrissur | 109423 | 10263 | 119686 |
| 9 | Palakkad | 128656 | 17572 | 146229 |
| 10 | Malappuram | 99837 | 15491 | 115328 |
| 11 | Kozhikkode | 72582 | 10680 | 83262 |
| 12 | Wayanad | 95611 | 17445 | 113055 |
| 13 | Kannur | 57208 | 28963 | 86171 |
| 14 | Kasaragod | 90614 | 36527 | 127141 |
| | State | 105623 | 13563 | 119186 |

A4.3 District wise Value of product and by-product per hectare (in Rs.) of Summer Paddy

| SI No | District | Product | By Product | Total |
|-------|--------------------|---------------|-------------|---------------|
| 1 | Thiruvananthapuram | 120658 | 41968 | 162626 |
| 2 | Kollam | 87147 | 20427 | 107574 |
| 3 | Pathanamthitta | 107468 | 9067 | 116536 |
| 4 | Alappuzha | 104715 | 1936 | 106650 |
| 5 | Kottayam | 144141 | 1636 | 145777 |
| 6 | Idukki | 34992 | 14057 | 49049 |
| 7 | Eranakulam | 88492 | 10210 | 98702 |
| 8 | Thrissur | 145488 | 7319 | 152807 |
| 9 | Palakkad | 134256 | 17774 | 152030 |
| 10 | Malappuram | 106678 | 12903 | 119581 |
| 11 | Kozhikkode | 86440 | 14286 | 100726 |
| 12 | Wayanad | 94539 | 8855 | 103394 |
| 13 | Kannur | 59463 | 34763 | 94226 |
| 14 | Kasaragod | 194583 | 31682 | 226265 |
| | State | 121326 | 8242 | 129568 |

| A4.4 District wise Value of product and by-product per hectare (in Rs.) of Coconut | | | | |
|---|--------------------|---------------|-------------|---------------|
| Sl No | District | Product | By Product | Total |
| 1 | Thiruvananthapuram | 246817 | 5492 | 252309 |
| 2 | Kollam | 116003 | 183 | 116186 |
| 3 | Pathanamthitta | 100133 | 1258 | 101391 |
| 4 | Alappuzha | 141653 | 274 | 141927 |
| 5 | Kottayam | 136760 | 1076 | 137836 |
| 6 | Idukki | 196024 | | 196025 |
| 7 | Eranakulam | 146808 | 184 | 146992 |
| 8 | Thrissur | 134887 | 1338 | 136225 |
| 9 | Palakkad | 311638 | 4716 | 316354 |
| 10 | Malappuram | 151017 | 8191 | 159208 |
| 11 | Kozhikkode | 83939 | 1659 | 85598 |
| 12 | Wayanad | 98249 | | 98249 |
| 13 | Kannur | 197549 | 2350 | 199898 |
| 14 | Kasaragod | 135700 | 2869 | 138569 |
| | State | 158910 | 2710 | 161620 |

**A4.5 District wise Value of product and by-product per hectare (in Rs.) of
Arecanut, Tapioca and Banana.**

| Sl No | District | Arecanut | Tapioca | Banana |
|-------|--------------------|---------------|---------------|---------------|
| 1 | Thiruvananthapuram | 112409 | 311440 | 594708 |
| 2 | Kollam | 98875 | 227299 | 396123 |
| 3 | Pathanamthitta | 94714 | 347398 | 427599 |
| 4 | Alappuzha | 87871 | 327625 | 470628 |
| 5 | Kottayam | 94013 | 317002 | 544932 |
| 6 | Idukki | 90271 | 304233 | 443447 |
| 7 | Eranakulam | 534314 | 398934 | 486385 |
| 8 | Thrissur | 293156 | 303384 | 643170 |
| 9 | Palakkad | 254472 | 554488 | 594262 |
| 10 | Malappuram | 187278 | 322934 | 469200 |
| 11 | Kozhikkode | 261041 | 326155 | 623242 |
| 12 | Wayanad | 123742 | 198450 | 281614 |
| 13 | Kannur | 302179 | 725304 | 569833 |
| 14 | Kasaragod | 583875 | 311613 | 537936 |
| | State | 260726 | 337498 | 525063 |

A4.6 District wise Value of product and by-product per hectare (in Rs.) of Pepper, Ginger and Turmeric.

| Sl No | District | Pepper | Ginger | Turmeric |
|-------|--------------------|---------------|---------------|---------------|
| 1 | Thiruvananthapuram | 210871 | 974424 | 377755 |
| 2 | Kollam | 350048 | 397086 | 179216 |
| 3 | Pathanamthitta | 197535 | 391878 | 241262 |
| 4 | Alappuzha | 250942 | 402836 | 375207 |
| 5 | Kottayam | 200801 | 407119 | 274357 |
| 6 | Idukki | 134870 | 215018 | 226799 |
| 7 | Eranakulam | 232855 | 526929 | 359571 |
| 8 | Thrissur | 220053 | 334496 | 219610 |
| 9 | Palakkad | 163643 | 962361 | 1073871 |
| 10 | Malappuram | 133580 | 294085 | 163060 |
| 11 | Kozhikkode | 235414 | 461807 | 211669 |
| 12 | Wayanad | 104771 | 577677 | 203405 |
| 13 | Kannur | 200963 | 489501 | 257351 |
| 14 | Kasaragod | 247265 | 703864 | 402295 |
| | State | 192577 | 599480 | 301175 |

| A4.7 District wise Value of product and by-product per hectare of Pineapple | | |
|--|--------------------|---------------|
| Sl No | District | Pineapple |
| 1 | Thiruvananthapuram | 515884 |
| 2 | Kollam | 286529 |
| 3 | Pathanamthitta | 153292 |
| 4 | Alappuzha | 189400 |
| 5 | Kottayam | 397280 |
| 6 | Idukki | 388371 |
| 7 | Eranakulam | 453134 |
| 8 | Thrissur | 366641 |
| 9 | Palakkad | 413580 |
| 10 | Malappuram | 249651 |
| 11 | Kozhikkode | 429749 |
| 12 | Wayanad | |
| 13 | Kannur | 182776 |
| 14 | Kasaragod | 560897 |
| | State | 364160 |

**A4.8 District wise Value of product and by-product per hectare Bitter gourd
(Autumn, Winter and Summer)**

| Sl No | District | Bitter gourd (Autumn) | Bitter gourd (Winter) | Bitter gourd (Summer) |
|-------|--------------------|--------------------------|--------------------------|--------------------------|
| 1 | Thiruvananthapuram | 580215 | 637274 | 641086 |
| 2 | Kollam | 420685 | 431142 | 396009 |
| 3 | Pathanamthitta | 293897 | 313766 | 281580 |
| 4 | Alappuzha | 360817 | 371890 | 432935 |
| 5 | Kottayam | 351725 | 358784 | 358150 |
| 6 | Idukki | | 247598 | |
| 7 | Eranakulam | 131029 | 274814 | 199987 |
| 8 | Thrissur | 280281 | 302381 | 286939 |
| 9 | Palakkad | 586022 | 594766 | 174629 |
| 10 | Malappuram | 212091 | 233505 | 206682 |
| 11 | Kozhikkode | 553280 | 463479 | 322752 |
| 12 | Wayanad | | 394212 | 168454 |
| 13 | Kannur | 252039 | 308798 | 364437 |
| 14 | Kasaragod | | 341356 | 359730 |
| | State | 407637 | 412135 | 350825 |

**A4.9 District wise Value of product and by-product per hectare (in Rs.) of Cowpea
(Autumn, Winter and Summer)**

| Sl No | District | Cowpea(Autumn) | Cowpea(Winter) | Cowpea(Summer) |
|-------|--------------------|----------------|----------------|----------------|
| 1 | Thiruvananthapuram | 460800 | 468318 | 477961 |
| 2 | Kollam | 418638 | 425247 | 389071 |
| 3 | Pathanamthitta | 265386 | 281992 | 279064 |
| 4 | Alappuzha | 404673 | 413888 | 405646 |
| 5 | Kottayam | 381457 | 322875 | 344909 |
| 6 | Idukki | | 298998 | |
| 7 | Eranakulam | 331697 | 312194 | 278073 |
| 8 | Thrissur | 256289 | 273826 | 233721 |
| 9 | Palakkad | 496912 | 446278 | 158903 |
| 10 | Malappuram | 168230 | 160083 | 140291 |
| 11 | Kozhikkode | 456950 | 186450 | 212273 |
| 12 | Wayanad | | 288795 | 169533 |
| 13 | Kannur | 249025 | 276270 | 303155 |
| 14 | Kasaragod | | 272851 | 263298 |
| | State | 370415 | 331754 | 296293 |

A4.10 District wise Value of product and by-product per hectare of Cardamom

| Sl No | District | Cardamom |
|-------|--------------|---------------|
| 1 | Idukki | 709010 |
| 2 | Palakkad | 395143 |
| 3 | Wayanad | 467894 |
| | State | 460312 |



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