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കാർഷിക വികസന
കർഷകക്ഷേമ വകുപ്പ്



സന്ദേശം

കേരളമെങ്ങും ഹരിതപ്രതീക്ഷകളുണർത്തി പുതുവർഷം വീണ്ടും സമാഗതമാവുകയാണ്. കാർഷികകേരളത്തിന് അഭിമാനമുയർത്തുന്ന നേട്ടങ്ങൾ കൈവരിച്ചുകൊണ്ട് സംസ്ഥാനസർക്കാരും കാർഷികവികസന കർഷകക്ഷേമ വകുപ്പും സദ്ഭരണത്തിന്റെ പാതയിൽ മുന്നേറുകയാണ്. അധികാരമേറ്റ് രണ്ടുവർഷം പൂർത്തിയാക്കുന്ന ഈ വേളയിൽ ദേശീയതലത്തിൽത്തന്നെ ശ്രദ്ധേയമായ നിരവധി കർഷകക്ഷേമ കാർഷിക-പരിസ്ഥിതിസൗഹൃദ പദ്ധതികൾ പൊതുജന പങ്കാളിത്തത്തോടെ നിർവഹിക്കാൻ കഴിഞ്ഞു എന്നതിൽ ഏറെ ചാരിതാർഥ്യവും അഭിമാനവുമുണ്ട്.

കേരളത്തിന്റെ പ്രധാന കാർഷികവിളകളായ നെല്ല്, തെങ്ങും ഇന്ന് സംസ്ഥാനസർക്കാർ പദ്ധതികളിലൂടെ തിരിച്ചുവരവിന്റെ പാതയിലാണ്. ഇതിന്റെ ഭാഗമായി സർക്കാർ പ്രഖ്യാപിച്ച നെൽവർഷാചരണത്തിന് മികച്ച പ്രതികരണവും പിന്തുണയുമാണ് ലഭിച്ചത്. ഇതിനെ പിന്തുടർന്ന് 1193 ചിങ്ങം ഒന്നുമുതൽ 1194 ചിങ്ങം ഒന്നുവരെ കേരവർഷമായി ആചരിച്ച് കൃഷിവകുപ്പ് വിവിധപദ്ധതികൾ നടപ്പിലാക്കുകയാണ്. തൈ നടീൽ മുതൽ മൂല്യവർധനവുവരെ വിവിധ ഘടകങ്ങൾക്ക് ഊന്നൽ നൽകുന്ന വർഷാചരണം നാളികേരമേഖലയുടെ നഷ്ടപ്രതാപം വീണ്ടെടുക്കാനുള്ള കൂട്ടായപ്രവർത്തനമാണ്.

അട്ടപ്പാടിയിലെ ആദിവാസികർഷകരുടെ ഉന്നമനത്തിനായി നടപ്പാക്കുന്ന അട്ടപ്പാടി മില്ലറ്റ് വില്ലേജ് പ്രോഗ്രാം ഈ മേഖലയിലെ പരമ്പരാഗത ചെറുധാന്യ കൃഷി പരിപോഷിപ്പിക്കാനും വിപണനസൗകര്യം മെച്ചപ്പെടുത്തുന്നതിനും ലക്ഷ്യമിടുന്നു. ആദ്യമായാണ് സർക്കാരിന്റെ ഭാഗത്തുനിന്നും ഇത്തരം ഇടപെടൽ നടക്കുന്നതെന്ന് അഭിമാനാർഹമാണ്.

സംസ്ഥാന വിള ഇൻഷുറൻസ് തുക 21 വർഷത്തിനുശേഷം ഇരട്ടി മുതൽ പത്തിരട്ടി വരെ വർദ്ധിപ്പിച്ചതും ചരിത്രപരമായ നേട്ടമാണ്. പ്രകൃതിക്ഷോഭവും വന്യജീവി ആക്രമണവുംകാരണം വിളനഷ്ടം അനുഭവിക്കുന്ന കർഷകർക്ക് ഈ നടപടിയിലൂടെ ഏറെ ആശ്വാസം പകരാൻ കഴിഞ്ഞു.



മണ്ണും ജലവും മലിനമാകാതെ സുസ്ഥിരവികസനം സാധ്യമാക്കുക എന്ന ലക്ഷ്യത്തോടെ സംസ്ഥാന സർക്കാർ നടപ്പാക്കുന്ന 'ഹരിതകേരളം' പദ്ധതിയും രണ്ടാം വർഷത്തിലേക്ക് വിജയകരമായി കടക്കുകയാണ്. ഹരിതകേരളം പദ്ധതിയുടെ ലക്ഷ്യ പൂർത്തീകരണത്തിനായി കൃഷി വകുപ്പ് സജീവമായി രംഗത്തുണ്ട്. പ്രസ്തുത മിഷന്റെ ഉപദ്രവ്യമായ 'ജൈവകൃഷിക്ക് പ്രാമുഖ്യം നൽകി കൊണ്ടുള്ള കൃഷി വികസനം' - സുജലം സുഹൃദം എന്ന പേരിലാണ് നടപ്പാക്കുന്നത്.

ജൈവകൃഷിയിലും ജൈവോൽപ്പന്നങ്ങളുടെ വിപണനത്തിലും ആഗോള നിലവാരത്തിനനുസരിച്ച് മുന്നേറുന്നതിന് നാം ബഹുദൂരം സഞ്ചരിക്കേണ്ടതുണ്ട്. ഇതുമുന്നിൽക്കണ്ട് ജൈവകൃഷിയും വിഷരഹിത ജൈവോൽപ്പന്നങ്ങൾ വിപണനം ചെയ്യുന്നതിനും നിരവധി കാര്യക്ഷമമായ നടപടികൾക്ക് സർക്കാർ തുടക്കം കുറിച്ചു കഴിഞ്ഞു. ഉത്സവകാലങ്ങളിൽ 'വിഷുക്കണി', 'ഓണസമൃദ്ധി വിപണികൾ', എല്ലാ പഞ്ചായത്തുകളിലും ഗ്രാമീണ കാർഷികച്ചന്തകൾ, കൃഷിഭവനുകളോടനുബന്ധിച്ച് ഇക്കോഷോപ്പുകൾ, ആദ്യമായി കാർഷികവിളകളുടെ ജൈവകൃഷിമുറകൾ ഉൾപ്പെടുത്തി കേരള കാർഷികസർവകലാശാല പുറത്തിറക്കിയ പാക്കേജ് ഓഫ് പ്രാക്ടീസസ്, ആഗോള ജൈവകോൺഗ്രസിൽ കേരളത്തിന്റെ സജീവമായ പങ്കാളിത്തം തുടങ്ങി ജൈവകാർഷിക പ്രവർത്തനങ്ങളിൽ മുന്നേറുകയാണ് കേരളം.

കൃഷി വകുപ്പിന്റെ പ്രവർത്തനങ്ങൾ നേരിട്ട് ജനങ്ങളിലേക്ക് എത്തിക്കുന്നതിനും കർഷകരുടെ ആവശ്യങ്ങളും പ്രതികരണങ്ങളും നേരിട്ടു മനസ്സിലാക്കുന്നതിനും വേണ്ടി എല്ലാമാസവും ആദ്യബുധനാഴ്ച കർഷകരുമായി സംവദിക്കുന്ന 'കൃഷിമന്ത്രി വിളിപ്പുറത്ത്' എന്ന പരിപാടിയും പരമാവധി കർഷകർക്ക് പ്രയോജനമേകുമെന്ന് വിശ്വസിക്കുന്നു.

നെൽകൃഷി തരിശുനിലങ്ങളിൽ വ്യാപിപ്പിക്കുന്നതിനുള്ള തുടർപ്രവർത്തനങ്ങളും മുല്യവർധന കാർഷികസംരംഭകത്വം പ്രോത്സാഹിപ്പിക്കാനുള്ള 'വൈഗ-2017' ഉം കാർഷികമേഖലയ്ക്ക് കരുത്തേകും.

ഫാറംഗേഡ് 2018 കർഷകർക്കും കൃഷിയെ സ്നേഹിക്കുന്നവർക്കും ഒരു ഉത്തമ റഫറൻസ് ഗ്രന്ഥമായി പ്രയോജനപ്പെടുട്ടെ എന്ന് ആശംസിക്കുന്നു.



അഡ്വ. വി. എസ്. സുനിൽകുമാർ
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Setting Milestones in Agricultural Extension...

Keralakarshakan

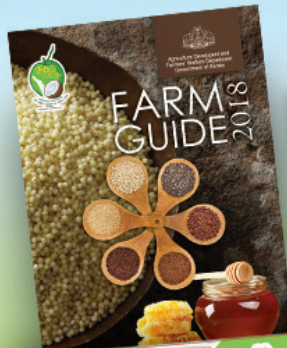
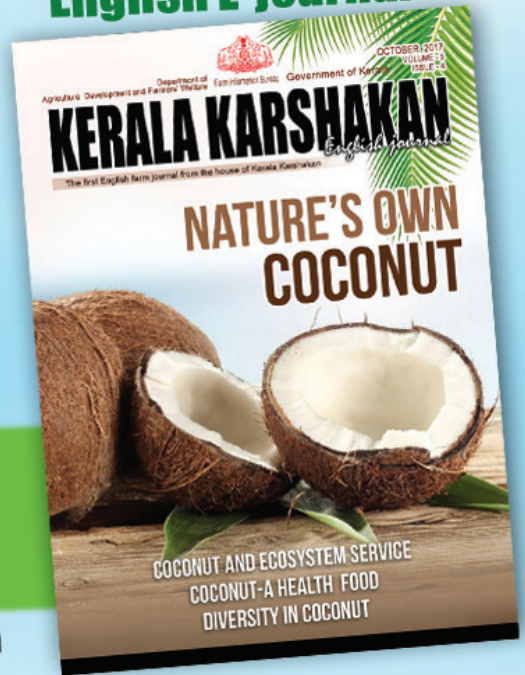


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| Dr. M. Suresh Kumar, Project Co-Ordinator, Animal Disease Control Project | 0471 2556151 | 9447060639 |
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LMTC's

| | | |
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| Dr. V.R. Rajesh, AD, LMTC, Thalayolapparambu | 0482 9234323 | 9947941320 |
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DIRECTORATE OF DAIRY DEVELOPMENT

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|--|--------------------------|---------------------------------|------------|
| Director | Abraham T. Joseph | 0471 - 24457990471 - 2445749 | 9447477799 |
| Joint Director (General) | Biji V. Easo | 0471 - 2445799 | 9447104681 |
| Joint Director (Planning) | Isaac K. Thayyil | 0471 - 2445799 | 9447303885 |
| Joint Director (State Dairy Lab) | Jose Emmanuel | 0471 - 2440074 | 9496836226 |
| Administrative Officer | Geetha S. | 0471 - 2445799 | 8547531516 |
| Finance Officer | Nisha Sreedhar | 0471 - 2440853 | 9696747355 |
| Deputy Director (Planning) | Thampy Mathew | 0471 - 2445799 | 9446074004 |
| Deputy Director (Extension) | Sasi Kumar K. | 0471 - 2445799 | 9446376988 |
| Deputy Director (General) | Suresh Kumar V.P | 0471 - 2445799 | 9447867975 |
| Assistance Director (Technical Cell) | Sunil Kumar M. | 0471 - 2445799 | 9995887381 |
| Assistant Director/SMS (Dairy) | Koshy K. Alex | 0471 - 2445799 | 9447266155 |
| Assistant Director – SDL | Sindhu R. | 0471 -2440074 | 9447439670 |
| Dairy Extension Officer – Tech. Cell | Sajjayan S. | 0471 - 2445799 | 9446526877 |
| Dairy Extension Officer – Tech. Cell | Sreekumar | 0471 - 2445799 | 9446150784 |
| Dairy Extension officer – SDL | Aswathy M.G | 0471 -2440074 | 9995185846 |
| Dairy Extension officer – SDL | Raji Rajan | 0471 -2440074 | 9746185197 |
| Dairy Extension Officer – Project Cell | Gipin G.P | 0471 - 2445799 | 8113893153 |
| Administrative Assistant | Anis K.M | 0471 - 2445799 | 9495226408 |

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Adv. Mathew T Thomas (Minister for Water Resources)

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| Dr. V. Vijayakumar (Chief Evaluation) | 0471-2531394 | |
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| T.E. Santhi (Chief (i/c), Social Service) | 0471-2540609 | |
| Dr. Santhosh Vidyadharan (Chief-Perspective Planning) | 0471-2532750 | |
| Joy N.R. (Chief-(i/c) Industry & Infrastructure) | 0471-2540809 | |
| P. Radhakrishnan (Senior Administrative Officer) | 0471-2541270 | |
| Selinamma T.I. (Plan Publicity Officer) | 0471-2532750 | |
| S. Anoop (Finance Officer) | 0471-2542714 | |
| Ushamma T. (Publication Officer) | 0471-2540208 | |

DISTRICT OFFICERS OF AGRICULTURE DEPARTMENT
PRINCIPAL AGRICULTURAL OFFICERS

| District | Name | Office | Mobile No |
|--------------------|--------------------|---------------|------------------|
| Thiruvananthapuram | Mini K Rajan | 0471-2733334 | 9447792292 |
| Kollam | | 0474-2795082 | |
| Pathanamthitta | Shyla Joseph | 0468-2222597 | 9447453317 |
| Alappuzha | J.Prem Kumar | 0477-2251403 | 9495999451 |
| Kottayam | Jayalalitha | 0481-2562263 | 9496016666 |
| Idukki | Ushakumary.PG | 0486-2222428 | 8289865025 |
| Ernakulam | Sreedevi. M | 0484-2422224 | 9447679179 |
| Thrissur | Abdul Majeed | 0487-2444297 | 9496818888 |
| Malappuram | S.Jayanthi | 0483-2734916 | 9447515122 |
| Palakkad | Jessy K.X. | 0491-2505075 | 9446219798 |
| Kozhikode | Premaja | 0495-2370897 | 9446520967 |
| Kannur | Omana Kurukurathan | 0497-2706154 | 9447893464 |
| Wyanad | K.Asha (i/c) | 0493-6202506 | 9447763776 |
| Kasargod | T.R.Usha Devi | 0499-4255346 | 9447812218 |

PROJECT DIRECTORS - ATMA

| Name of District | Name | Contact | |
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| Kasaragod | K.T Leena | 04994-255346 | 9745929256 |

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Principal Agricultural Officer, Civil Station Building, Alappuzha-688001

Principal Agricultural Officer, Civil Station Building, Kottayam-686001

Principal Agricultural Officer, Mini Civil Station, Thodupuzha, Idukki-685584

Principal Agricultural Officer, Civil Station Building, Kakkanad, Ernakulam-682030

Principal Agricultural Officer, Sakthan Arcade, Sakthan Nagar, Trissur-680001

Principal Agricultural Officer, Civil Station Building, Palakkad-678001

Principal Agricultural Officer, Civil Station Building, Malappuram-676505

Principal Agricultural Officer, Civil Station Building, Kozhikode-673020

Principal Agricultural Officer, Civil Station Building, Kalpetta, Wayanad-673121

Principal Agricultural Officer, Civil Station Building, F block, Kannur-2

Principal Agricultural Officer, Civil Station Building, Kasaragod-671123

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| District | Name | Office | Mobile |
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| Idukki | Dr. George P. Abraham | 0486-2222894 | 9961066603 |
| Pathanamthitta | Dr. Elizabeth Daniel | 0468-2322762 | 9495159031 |
| Ernakulam | Dr. Ummukkulusu (i/c) | 0484-2360648 | 9400927374 |
| Thrissur | Dr. A.S. Vijayakumar | 0487-2361216 | 9447072012 |
| Palakkad | Dr. D. Aravind (i/c) | 0491-2520297 | |
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| Wayanad | Dr. K.R. Geetha | 0493-6202292 | 9048672180 |
| Kannur | Dr. Khaleel C.K. | 0497-2700267 | 9447229166 |
| Kasaragod | Dr. V. Sreenivasan | 0499-4255483 | 9496553529 |

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| District | Name of Officer | Office Phone No. | Mobile No. |
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| Kasargod | Shanty Abraham | 0499 - 4255475 | 9446427010 |
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| Sreelekha L. Joint Director. | 9446006571 | 0471 2461452 |
| Nadeera Begum, Credit Specialist (Joint Registrar of Co-operative Societies). | | 0471 2461452 |
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| Harikumar B., Asst. Director of Agriculture. | 9446006573 | 0471 2461452 |
| V.Sivaramakrishnan, Asst. Director of Agriculture. | 9446006574 | 0471 2461452 |
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| Dr. K. Vidyasagaran (Dean) College of Forestry, Thrissur | 0487-2438401 | 9447770050 |
| Dr. Mary Mathew (Dean, Agri. Engg.) KCAE&T, Thavanur | 0494-2686214 | 9446547714 |
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| Dr. Sudheer Babu (Dean) College of Dairy Science & Technology, Mannuthy | 0487-2370861 | 9447331231 |
| Dr. Koshy John (Associate Dean) College of Veterinary & Animal Sc., Pookkod, Wayanad | 04936-256991 | 9947450202 |
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| Joint Secretary | | 23381757, 23388756 | |
| Dr. B. Rajender | | | |
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| Joint Secretary | | | |

**DEPARTMENT OF ANIMAL HUSBANDRY, DAIRYING & FISHERIES
GOVT. OF INDIA**

A.H. Commissioner

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INDIAN COUNCIL OF AGRICULTURAL RESEARCH**

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KERALA GOVERNMENT OFFICES IN NEW DELHI
Office of the Resident Commissioner,
Govt. of Kerala, 3, Janthar Mantar Road, New Delhi - 110001.

| Name & Designation | Office No. | Mobile |
|---|----------------------|------------|
| Dr. Viswas Mehta Resident Commissioner | 23360342 23360333 | 9446785506 |
| Puneet Kumar Additional Resident Commissioner | 23360332 | |
| Ajayakumar K. Additional Secretary & Liaison Officer | 23360322 23343304 | 8130543364 |
| P. Ramachandran Controller | 23368176 | 8130420402 |
| S. Viswanathan Pillai Protocol Officer | 23360334 | 9868999964 |

GOVERNMENT SECRETARIAT
AGRICULTURE DEPARTMENT

| Name & Designation | Telephone Numbers | |
|---|-------------------|------------|
| | Direct | Mobile |
| Teeka Ram Meena IAS Principal Secretary & Agricultural Production Commissioner | 2333042 | 9447713372 |
| Mini K. Addl. Secretary | 2327339 | 9495825753 |
| Boby Antony Joint Secretary | 2518804 | 9446039456 |
| Meera S. Deputy Secretary | 2518638 | 9446023748 |
| Josephine Deputy Secretary | 2518707 | |
| Sheharbhanu Deputy Secretary | 2518652 | |
| Valsala K. Under Secretary | 257046 | |

| | | |
|---|---------|------------|
| Sudheer Babu Under Secretary | 2518271 | |
| Korulla K. Jacob Under Secretary | 2518239 | 9446330264 |
| Sheeja R.S. Under Secretary | 2518131 | |
| C. Ramankutty Spl. Officer (WTO Cell) | 2327039 | 9995541895 |
| Shajan A. Under Secretary (WTO Cell) | 2517169 | 9645822922 |

SECTION OFFICERS OF AGRICULTURE

| | | |
|----------------------------|---------|------------|
| Vinodini A.O. Agri (PA) | 2518958 | 9495134459 |
| Snehalatha K. (EB) | 2517106 | 9495555813 |
| Retty P. Thomas, Agri (EA) | 2518253 | 9497882660 |
| Maya P., Agri (PB) | 2517340 | 9745533243 |
| Tessy Jose, Agri (IFA) | 2518796 | 9895517463 |
| Sreelekha S., Agri (PU) | 2518528 | 9447782904 |
| Sreelatha S.V., (NCA) | 2518019 | 9495729892 |
| Shylaja V., Agri (PS) | 2518130 | 9446069029 |
| Swapna P. Agri (Farms) | 2517159 | 9447401236 |
| Sudheer K. (Agri) | 2518070 | 9495219642 |

GOVERNMENT SECRETARIAT ANIMAL HUSBANDRY & DAIRY DEVELOPMENT DEPARTMENT

| Name & Designation | Telephone Numbers | | |
|--|-------------------|------|------------|
| | Direct | PABX | Mobile |
| Anil X. IAS Secretary | | | 9446540856 |
| S. Praveen Joint Secretary (AH & Dairy) | 2321101 | 8289 | 9388276326 |
| Sunitha I. Under Secretary (Animal Husbandry & Dairy) | 2518238 | | 9495655920 |
| Section Officers | | | |
| Binuraj S. (Dairy) | 2518728 | | 9656967421 |
| Liya Latheef A. (G) | 2518506 | | 9495228801 |
| Sushama Bhai S. (E) | 2518569 | | 9446184465 |
| Jubair H. (F) | 2518728 | | 9446904267 |

Contact Details of Public Sector Undertakings

| | Office | Email | Website |
|--|---------------|---------------------------------|------------------------------|
| SHM | 0471-2330856 | mdshmkerala@yahoo.co.in | www.hortnet.kerala.nic.in |
| VFPC | 0484-2427560 | vfpcorg@gmail.com | www.vfpc.org |
| KAICO | 0471-2471348 | mdkaictd08@bsnl.in | www.keralaagro.com |
| KAMCO | 0484-2474281 | mail@kamcoindia.com | www.kamcoindia.com |
| KERAFED | 0471-2326107 | kerafed@giasm01.vsnl.net.in | www.kerafed.com |
| KERALA STATE COCONUT DEVELOPMENT CORPORATION | 0495-2461350 | mail.kscdc@gmail.com | www.kscdc.in |
| KLDC | 0471-2319695 | ho@klcdc.org | www.klcdc.org |
| HORTICORP | 0471-2359477 | horticorpo@yahoo.com | www.hortcorpkerala.com |
| KERALA STATE WAREHOUSING CORPORATION | 0484-2376709 | kerwacor@gmail.com | www.kerwacor.com |
| OIL PALM INDIA LTD. | 0481-2582202 | mdopil@yahoo.co.in | www.oilpalmindia.com |
| PLANTATION CORPORATION OF KERALA (PCK) | 0481-2578301 | pckltd@bsnl.in | www.pcklimited.in |
| KERALA PINEAPPLE MISSION | 9605895562 | pineapplemission.kpm@gmail.com | |
| STATE FARMING CORPORATION OF KERALA | 0475-2225089 | sfckpnlr@gmail.com | www.sfckerala.com |
| KERALA STATE SEED DEVELOPMENT AUTHORITY | 0487-2390510 | jdakssda@hotmail.com | |
| SAMETI | 0471-2740440 | sametikerala@gmail.com | www.semety.org |
| SFAC | 0471- 2322109 | sfackerala123@gmail.com | www.sfackerala.org |
| KLDB | 0471-2440920 | klbboardr8@gmail.com | www.livestock.kerala.gov.in |
| KEPCO | 0471-2468585 | kepcopoultry@gmail.com | www.kepco.nic.in. |
| MPI | 0485-2252695 | mpiedayar@gmail.com | www.meatproductsof india.com |
| KERALA FEEDS Ltd | 0480-2720192 | kflinfo@keralafeeds.com | www.keralafeeds.com |
| MILMA | 0471-2555993 | jim@milma.co.in | www.milma.com |
| KERALA DAIRY FARMERS WELFARE FUND BOARD | 0471-2723671 | keraladairyfarmerswfb@yahoo.com | www.kdfwf.org |
| WTO Cell | 0471-2327039 | wtocellkerala@gmail.com | |

GOVERNMENT SECRETARIAT, KERALA

| Name & Designation | Telephone Numbers | | |
|---|---|------|-----------------------|
| | Off. | PABX | Residence |
| Dr. K.M. Abraham | 2333147 | 8181 | 2349145 8606497773 |
| Chief Secretary | Fax : 0471-2327176 E-mail: chiefsecy@kerala.gov.in | | |
| Addl. Chief Secretaries | | | |
| Industries & Power | | | |
| Paul Antony | 2327499 | | |
| Addl. Chief Secretary | E-mail: addlsckerala@gmail.com | | 9496404777 |
| Labour, Skills, Taxes, Water Resource Dept, Coastal Shipping, Inland Navigation Aviation | | | |
| Tom Jose | 2327582 | 8973 | |
| Addl. Chief Secretary | Fax:0471-2327395 E-mail: acs.home@kerala.gov.in | | 9446307006 |
| Health & Family Welfare | | | |
| Rajeev Sadanandan | 2327865 | 8255 | |
| Addl. Chief Secretary | 9868829495 | | |
| Home & Vigilance | | | |
| Subrata Biswas | 2333174 | 8455 | 2316969 9446581100 |
| Addl. Chief Secretary | | | |
| Forest, Wildlife, Fisheries, | | | |
| Dr. James Varghese | 2333164 | 8008 | 2443351 9447156204 |
| Addl. Chief Secretary | E-mail: prisecy.lsg@kerala.gov.in | | |
| Revenue & Housing, Environment, Port Department | | | |
| P.H. Kurian | 2329227 | 8356 | 2534453 9496107100 |
| Addl. Chief Secretary | | | |
| Principal Secretaries | | | |
| Agricultural Development and Farmers' Welfare Department | | | |
| Teeka Ram Meena | 2518398 | 8393 | 2348112 9400156199 |
| Principal Secretary & Agricultural Production Commissioner | | | |

Ayush Department

B. Sreenivas 2328410 8459
Principal Secretary 9496361074

Parliamentary Affairs, P & ARD Department

Dr. Raju Narayanaswami 2327994 7310
Principal Secretary

Public Works Department

G. Kamalavardhana Rao 2335452 8313
Principal Secretary 8129203333

Backward Communities Development, SC/ST, Forest, Wildlife, Tourism Department

Dr. Venu V. 2518232
Principal Secretary 9560407263

GAD, Norka

Bishwanath Sinha 2336602
Principal Secretary 7290002121

Election Department

E.K. Mahji 2305116 2348034
Principal Secretary 9447796763

Finance & Store Purchase Department

Manoj Joshi 2327586 8292 2349145
Principal Secretary 9999311285

Finance- Expenditure, Planning and Economic Affairs Department

Dr. Sharmila Mary Joseph 2326436 8695
Secretary 9446528400

Finance-Resources

Minhaj Alam 2331161 8058
Secretary 9447378239

Food, Civil Supplies & Consumer Affairs

Mini Antony 2518880 8880
Special Secretary 8301928099

Co-operation, I & PRD Department

P. Venugopal 2518444 9447001022
Special Secretary

General Education & Minority Welfare Department

A. Shajahan 2331509 8997
Secretary 9995508800

| | | | |
|---|--|------|------------|
| | Sainik Welfare, Printing & Stationary | | |
| Sumana N. Menon Secretary | 2321572 | 8308 | 8281457160 |
| | Higher Education Department | | |
| Usha Titus Secretary | 2331509 | 8997 | 9868124621 |
| | Information Technology | | |
| M. Sivasankar Secretary | 2327979 | 8653 | 9847797000 |
| | Law Department | | |
| B.G. Harindranath Secretary | 2332955 | 8383 | 9447006066 |
| | LSGD - Rural | | |
| A. Ajithkumar Secretary | 2335466 | 8163 | |
| | LSGD - Urban | | |
| Dr. B. Ashok Secretary | 2517058 | | |
| | Sports & Youth Affairs, Official Languages Department | | |
| T.O. Sooraj Secretary | 2320311 | 8669 | 9847506789 |
| | Animal Husbandary & Dairy Development | | |
| Anil X. IAS Secretary | 2335452 | 8313 | 9446540856 |
| | Devaswom, Transport | | |
| K.R. Jyothilal Secretary | 2320311 | 8669 | 9447744200 |
| | Science & Technology Department | | |
| Dr. Sureshdas Ex. Officio Principal Secretary | 2543557 | 8200 | |
| | Social Justice Department | | |
| Biju Prabhakar Special Secretary | 2517311 | 8200 | |
| | Water Resources | | |
| Tinku Biswal Secretary | 2322056 | 8035 | 9447713067 |
| | Cultural Affairs | | |
| Rani George Secretary | 2339182 | 8005 | 2553565 |
| | 2327270 | 8002 | 9446421100 |
| | | 8220 | 9447753565 |

Note : PABX numbers in the Secretariat can be contacted from outside by prefixing '251' followed by the extension numbers. Source : www.kerala.gov.in

DISTRICT-WISE IMPORTANT TELEPHONE NUMBERS

| Name | Tel (Office) |
|--|------------------------|
| THIRUVANANTHAPURAM | |
| | STD Code : 0471 |
| FARM INFORMATION BUREAU, KOWDIAR | 2318186 |
| PRINCIPAL INFORMATION OFFICER | |
| Website : www.fibkerala.gov.in / e-mail : fibtvm@gmail.com | |
| Kerala Karshakan and Publications | 2314358 |
| Farm News, Press Release, Video, Exhibition & IT Division | 2317314 |
| Agricultural Debt Relief Commission | 2555783, 25557847 |
| Agricultural Urban Whole Sale Market, Venpalavattom | 2558930 |
| All India Radio | 2324406 |
| AGMARK Lab | 2558930 |
| Banana Nursery, Peringamala | 04722846622 |
| Biotechnology Lab and Model Floriculture Unit, Kazhakuttom | 2413739 |
| Central Tuber Crops Research Institute, Sreekaryam | 2598551 |
| Central Soil Plant Health Centre, Parottukonam | 2530578 |
| Coconut Nursery, Kazhakoottam | 2413195 |
| Coconut Nursery, Valiathura | 2508222 |
| College of Agriculture, Vellayani | 2381002 |
| Coconut Research Station, Balaramapuram | 2400621 |
| Cropping Systems Research Centre, Karamana | 2343586 |
| CWRDM, Neyyatinkara | 2222319 |
| Deputy Director (Dairy Dept.) | 2554986 |
| Deputy Director (Fisheries) | 2474179 |
| District Agricultural Farm, Peringamala | 04722846488 |
| District Animal Husbandry Officer | 2330736 |
| District Collector | 2731177, 2731200 |
| District Co-operative Bank | 2451595 |
| District Economics & Statistics Office | 2330573 |
| District Information Officer | 2473267 |
| District Livestock Farm, Kudappanakkunnu | 2732964 |
| District Panchayat President | 2440890 |
| District Planning Officer | 2472317 |
| District Soil Conservation Officer | 2732648 |

| | | |
|--|--------------|---------------|
| District Soil Survey Officer | 2469709 | |
| District Veterinary Hospital | 2302643 | |
| Doordarshan Kendra | 2730143 | |
| Fertilizer Quality Control Laboratory | 2530578 | |
| Govt. Guest House, Thycaud | 2324561 | |
| Govt. Press, Thiruvananthapuram | 2331941 | |
| Haritakeralam Project | 2449939 | |
| ADCP, Thiruvananthapuram | 2556151 | |
| SADEC, Pattom, Thiruvananthapuram | 3256288 | Fax : 2553291 |
| IT Mission | 2726853 | |
| IIITMK, Technopark | 2527567 | |
| IMG, Trivandrum | 2300069 | |
| Instructional Farm, Vellayani | 2383573 | |
| KERAFED | 2320504 | |
| Kerala State Information Commission | 2320920 | |
| Kerala Land Development Corporation | 2320790 | |
| Kerala Land Use Board | 2302231 | |
| Kerala Livestock Development Board | 2518035 | |
| Kerala State Agro Industries Corporation | 2471343 | |
| Kerala State Cooperative Agricultural and Rural Development Bank | 2460528 | |
| Kerala State Co-operative Marketing Federation | 2323248 | |
| Kerala State Horticultural Products Development Corporation | 2359651 | |
| Kerala State Poultry Development Corporation | 2478585 | |
| KISSAN, Kerala | 2700965 | Fax : 2700947 |
| Kudumbashree | 2554714 | |
| Lead Bank(IOB) | 2320154 | |
| Livestock-Disease Control, Project Officer | 2460837 | |
| LMTTC, Kudappanakkunnu (Addl. Director) | 2732918 | |
| N.A.R.P., College of Agriculture, Vellayani | 2382239 | |
| NABARD | 2334940 | |
| National Horticulture Board | 0471 2470505 | |
| National Research Centre for Oilpalm, Palode | 04722840221 | |
| National Seeds Corporation | 2356124 | |
| Nedumangad Rural market | 0472 2813932 | |
| Pesticide Testing Laboratory | 2530867 | |
| Planning Board (Agriculture department) | 2540609 | |
| Press Information Bureau | 2534055 | |

| | | |
|---|-------------------|--------------|
| Prices Board | 2573494 | |
| Principal Soil Chemist, Central Soil Analytical Lab (Soil Survey) | 2467796 | |
| Principal Agricultural Officer | 2733334 | |
| e-mail : paotvpm@gmail.com | Fax: 0471-2733334 | |
| Public Relations Department | 2518908, 2327628 | |
| R.T.T Centre, Vellayani (Research Engineer) | 2381763 | |
| SAMETI | 2740440 | |
| Sanghamythy | 2392668 | |
| Small Farmers Agribusiness Consortium (SFAC) | 2322109 | Fax: 2322110 |
| Soil Testing Laboratory | 2530578 | |
| State Horticulture Mission | 2330857 | |
| State Seed Farm, Chirayinkeezhu | 0470-2643222 | |
| TBGRI, Palode | 0472 2869246 | |
| Veterinary Biologicals Institute, Palode | 04722840262 | |
| Vegetable and Fruit Promotion Council, Kerala | 2334480 | |
| State seed Farm,Ulloor | 2545422 | |

KOLLAM

STD Code : 0474

| | |
|--|---------|
| Agency for Cashew Development | 2760456 |
| Cashew Development Corporation | 2746029 |
| District Animal Husbandry Officer | 2793464 |
| District Collector | 2794900 |
| District Co-operative Bank | 2742303 |
| District Information Officer | 2794911 |
| District Panchayat President | 2793446 |
| District Planning Officer | 2793455 |
| District Soil Conservation Officer | 2798816 |
| District Soil Survey Officer | 2767121 |
| District Veterinary Hospital | 2795076 |
| Dy. Director, Economics and Statistics | 2793418 |
| Dy. Director(YP), FIB District Unit | 2795082 |
| Dy. Director, Dairy Development | 2748098 |
| ETC Kottarakkara | 2454621 |
| Farming Systems Research Station, Kottarakkara | 2663535 |
| Fisheries Office | 2792850 |
| Government Guest House | 2743620 |
| Indian Bank (Lead Bank) | 2742651 |
| Joint Registrar of Co-operative Societies | 2795176 |

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|--|---------------|
| KERAFED | 2748033 |
| Kerala Agro Industries Corporation, Kottarakkara | 2454740 |
| KVK Sadanandapuram | 2663599 |
| KLDMM, Indo Swiss Project, Kulathupuzha | 0475 -2357660 |
| NABARD | 2743524 |
| Oilpalm India Ltd, Bharathipuram | 0475- 2202343 |
| Government Rest House | 2742838 |
| Principal Agricultural Officer | 2795082 |
| e-mail : principalaokollam@gmail.com | Fax: 2795082 |
| Sangha Mytry (Apex Body) | 0476-3091013 |
| State Farming Corporation | 0475- 222253 |
| Vegetable and Fruit Promotion Council Keralam | 0474-210364 |

PATHANAMTHITTA

STD Code : 0468

| | |
|---|--------------|
| Agmark Laboratory, Pandalam | 04734 252801 |
| Assistant Director of Fisheries | 0468 2223134 |
| Asst. Soil Chemist, Pandalam | 04734 256645 |
| Asst. Ex. Engr. Pandalam | 04734 252939 |
| Avian Disease Diagnostic Laboratory, Thiruvalla | 0469 2700413 |
| Dairy Development Department | 0468 2223711 |
| District Information Officer | 0468 2222657 |
| District Animal Husbandry Officer | 0468 2222762 |
| District Collector | 0468 2222505 |
| District Collectorate | 0468 2222515 |
| District Co-operative Bank | 0468 2222271 |
| District Panchayat President | 0468 2223078 |
| District Planning Officer | 0468 2222725 |
| District Soil Conservation Officer | 0468 2224070 |
| District Soil Survey Officer | 0468 2223105 |
| District Forest Officer, Ranni | 04735 227558 |
| District Insurance Office | 0468 2270857 |
| DMO Pathanamthitta | 0469 2222642 |
| District Development Office For SC | 0468 2232272 |
| District Supply Office | 0468 2222612 |
| District Treasury PTA | 0468 2222402 |
| DRDA | 0468 2222696 |
| Economics And Statistics Office | 0468 2322743 |
| Farmers Training Centre, Pandalam | 04734 252244 |

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|--|--------------------|
| Govt. Guest House, Pathanamthitta | 0468 2228073 |
| Ground Water Department | 0468 2231185 |
| Joint Registrar, Co-operative Societies | 0468 2222417 |
| KAU, Konny Research Station | 0460 2242548 |
| KERAFED | 0468 2223458 |
| Kerala Agro Industries Corporation, Thiruvalla | 0469 2701273 |
| Krishi Vigyan Kendra, Pullad | 0469 2662094 |
| KSEB, Pathanamthitta | 0468 2223499 |
| Kudumbasree, Pathanamthitta | 0468 2221807 |
| Lead Bank (SBT) | 0468 2222589 |
| Minor Irrigation | 0468 2271272 |
| NABARD | 0468 2222156 |
| Principal Agricultural Officer | 0468 2222597 |
| e-mail : paopathanamthitta@gmail.com | Fax : 0468-2222597 |
| RAIDCO, Pathanamthitta | 0468 2222098 |
| Pazhakulam Agricultural & social Service Society | 04734 237262 |
| Social Forestry Office Ranni | 04735 2243452 |
| State Seed Farm, Pulladu | 0469 2661917 |
| State Seed Farm, Adoor | 04734 227868 |
| Sugarcane Research Institute, Thiruvalla | 0469 2604181 |
| Sugarcane Seed Farm, Pandalam | 04734 252500 |
| Tribal Development Office Ranni | 04735 227703 |
| VFPC Pandalam | 04734 252030 |

ALAPPUZHA

STD Code : 0477

| | |
|---|--------------|
| Asst.Executive Engineer(Agrl) | 2268098 |
| CPCRI, Kayamkulam | 0479-2442160 |
| Disrict Panchayat President | 2253836 |
| Dist. Agrl Farm, Mavelikkara | 0479-2357690 |
| District Animal Husbandry Officer | 2252431 |
| District Collector | 2251720 |
| District Information Office | 2251349 |
| District Soil Conservation Officer | 2254927 |
| District Soil Survey Office | 2236293 |
| Dy. Director, Dairy Development | 2252358 |
| Dy. Director, Fisheries | 2251103 |
| Executive Engineer(Agrl.) | 2266084 |
| Guest House | 2246503 |
| Joint Registrar, Co-operative Societies | 2251713 |
| Kariland Development Agency, Purakkad | 2272617 |

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|---|--------------|
| KCPM, Mancombu | 2702683 |
| KLDC, Kayamkulam | 0479-2270495 |
| Kerala Agro Industries Corporation | 2270942 |
| Kerala Centre for Pest Management, Moncompu | 2702683 |
| Krishi Vigyan Kendra, Kayamkulam | 0479-2449268 |
| Lead Bank | 2251267 |
| NABARD | 2244033 |
| NSC Unit, Ramankary | 2707173 |
| ORARS, Kayamkulam | 0479-2443192 |
| Principal Agricultural Officer | 2251403 |
| e-mail : paoallappuzha@gmail.com Fax : 0477-2251403 | |
| Punja Special Officer | 2245426 |
| Rice Research Station, Moncompu | 2702245 |
| State Seed Testing Lab | 2268615 |
| Soil Testing Lab | 2266862 |

KOTTAYAM

STD Code : 0481

| | |
|--|--------------------|
| Asst. Ex. Engineer (Agri.) | 2561585 |
| District Panchayat President | 2565966 |
| District Collector | 2562001 |
| District Animal Husbandry Officer | 2563726 |
| DAF, Kozha | 04822-234016 |
| Dy. Director, Dairy Development | 2562768 |
| Joint Registrar of Co-operative Societies | 2562069 |
| Dist. Co-operative Bank | 2563603 |
| District Information Officer | 2562558 |
| District. Soil Conservation Officer | 2568519 |
| District Soil Survey Officer | 2300978 |
| District Veterinary Centre | 2564623 |
| Kerala Agro Industries Corporation, Vaikom | 04829221214 |
| NABARD | 2304688 |
| Oil Palm India Ltd | 2567881 |
| Plantation Corporation, HQ | 2578301 |
| Principal Agricultural Officer | 2562263 |
| e-mail : paoktm@hotmail.com | Fax : 0481-2562263 |
| Punja Special Officer | 2560122 |
| RATTC, Kozha | 04822 - 231351 |
| RARS, Kumarakom, Office | 2524421 |
| Vegetable and Fruit Promotion Council (VFPC) | 2534709 |

IDUKKI

STD Code : 0486

| | |
|---|----------------|
| Asst. Director of Fisheries, Kumily | 04869 222326 |
| All India Radio, Devikulam | 5264259 |
| Asst. Ex. Engineer (Agri.), Thodupuzha | 2228522 |
| Asst. Soil chemist, Arikuzha | 2281162 |
| Cardamom Research Station, Pampadumpara | 8236263 |
| Coffee Board, Vazhavara | 04868 278025 |
| Coffee Board, Vandipperiyar | 04869 252349 |
| Deputy Director, Dairy Development | 2222099 |
| District Agricultural Farm, Areekuzha | 2278599 |
| District Planning Officer | 04862 233010 |
| District Tribal Development Officer | 04862 222399 |
| Deputy Director, Spices Board, Nedumkandam | 04868 234730 |
| District Animal Husbandry Officer | 2222894 |
| District Collector | 233103 |
| RDO Idukki | 04862 232231 |
| RDO Devikulam | 04869 264222 |
| District Information Officer | 2233036 |
| District Panchayat President | 2233069 |
| District Soil Conservation Officer, Moolamattom | 2252650 |
| District Soil Survey Office, Thodupuzha | 04862-228725 |
| Forest IB Munnar | 04865 231587 |
| Govt Guest House, Devikulam | 5264223 |
| Govt. Guest House, Idukki | 2233086 |
| Govt. Guest House, Peerumedu | 9232071 |
| Indian Cardamom Research Institute, Myladumpara | 04868 237207 |
| Joint Registrar of Co-operative Societies | 2232394 |
| Kerala Agro Industries Corporation | 2225117 |
| Kerala State Warehouse Corporation | 2222592 |
| KLD Board, Mattupetty | 5230389 |
| Kudumbasree | 04862 - 232223 |
| NABARD | 2223705 |
| National Informatic Centre | 04862 - 232543 |
| KVK, Santhanpara | 04868 - 247541 |
| Oil Palm India Ltd., Vettimattom | 2276164 |
| PWD Rest House, Thodupuzha | 04862 222205 |

| | |
|------------------------------------|--------------------|
| Principal Agricultural Officer | 2222428 |
| e-mail : paoidukki@gmail.com | Fax: 04862 -227848 |
| RAIDCO, Thodupuzha | 04862 - 223703 |
| State Seed Farm, Karimannoor | 04862 263560 |
| Spices Park, Puttadi | 04868 - 288371 |
| Spices Board, Kattappana | 04868 232989 |
| Spices Board, Cheruthoni | 235984 |
| Spices Board, Peerumedu | 232989 |
| Spices Board, NDKM | 347307 |
| State Vegetable Farm, Vandiperiyar | 04869 253543 |
| Rubber Board, Regional Office | 04862 - 222310 |
| SIDCO, Thodupuzha | 222205 |

ERNAKULAM

STD Code : 0484

| | |
|---|------------------|
| Aromatics and Medicinal Plants Research Station, Odakkali | 2658221 |
| Asst Ex Engineer (Agri.), Vyttila | 2422974 |
| Agri. Rural Wholesale Market Authority, Muvattupuzha | 0485-2813200 |
| Agri. Urban Wholesale Market Authority, Maradu | 2701042 |
| All India Radio, Kochi | 2429113 |
| Cashew Export Promotion council | 2376459 |
| Coir Board | 2351807 |
| Central IPM Centre | 2427114 |
| Central Warehousing Corporation | 2314423 |
| Coconut Development Board | 2377266 |
| Deputy Director of Fisheries | 2394476 |
| Deputy Director, Dairy Devpt Dept | 2422310 |
| Director of Cashewnut & Cocoa Devpt | 2377239 |
| Directorate of Marketing & Inspection | 2424797 |
| District Agricultural Farm, Neriamangalam | 2554416 |
| DRDA | 2422221 |
| District Animal Husbandry Officer | 2360648 |
| District Planning Office | 2422290 |
| District Collector | 2423001 |
| District Veterinary Hospital | 2351264 |
| District Co-operative Bank | 2424613 |
| District Information Officer | 2354208 |
| District Panchayat President | 2425205, 2422520 |

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|--|-------------------|
| District Soil Conservation Office | 2423301 |
| District Soil Testing Lab | 2306169 |
| District Veterinary Hospital | 2351264 |
| District Soil Survey Officer | 2596262 |
| FIB Regional Office, Edappally | 2344935 |
| Fisheries College, Panangad | 2700337 |
| FACT, Udyogamandal | 2545106 |
| Govt Guest House | 2360502 |
| Govt Guest House, Aluva | 2623464 |
| Govt Rest House | 2361265 |
| Hindusthan Insecticides | 2545121 |
| Horticon Regional production Centre | 2427730 |
| IPD Block Muvattupuzha | 2232731 |
| KERAFED | 2306720 |
| Kerala Agro Industries Corporation | 2474267 |
| Krishi Vigyan Kendra, Njarakkal | 2492450 |
| Kerala Press Academy | 2422275 |
| Kerala State Warehousing Corporation | 2375537 |
| KAMCO | 2474301 |
| LMTTC, Aluva | 2624441 |
| MARKETFED | 2204073 |
| Meat Products of India, Koothattukulam | 2352365 |
| NABARD | 2338293 |
| NAFED | 2205843 |
| Principal Agrl. Officer | 2422224 |
| e-mail : paoekm@hotmail.com | Fax: 0484-2422224 |
| Project Office, ICDP, Aluva | 2624441 |
| Pokkali Land Development Agency | 2449682 |
| Press Information Bureau | 2312153 |
| Plant Quarantine Fumigation Station | 2666145 |
| Pineapple Research Station, Vazhakkulam | 2260832 |
| Rice Research Station, Vyttila | 2809963 |
| Rubber Marketing Federation | 2205790 |
| Raidco | 2622923 |
| RATTC, Nettoor | 2703094 |
| Rubber Board Regional Office | 2380101 |
| Regional Poultry Farm, Koovapady | 2523557 |
| Spices Board | 2333610 |
| Tea Board, W. Island | 2666523 |
| Tourist Bungalow, Aluva | 2622637 |
| Vegetable and Fruit Promotion Council (VFPC) | 2427455 |

THRISSUR

STD Code : 0487

| | |
|---|-------------------|
| All India Radio | 2323572 |
| Asst. Exe. Engineer(Agri) | 2385529 |
| Bio-Control Lab, Mannuthy | 2374605 |
| CADA, Water Management Specialist (C.R. Ramesh) | 2332445 |
| CPCRI | 2282029 |
| Deputy Director, Dairy Development | 2321660 |
| District Co-operative Bank | 2420954 |
| District Soil Conservation Officer | 2360426 |
| District Animal Husbandry Officer | 2361216 |
| District Collector | 2361020 |
| District Information Officer | 2360644 |
| District Panchayat President | 2360251 |
| District Soil Survey Officer | 2323965 |
| Joint Registrar of Co-operative Societies | 2360363 |
| Kerala Agro Industries Corporation | 2310983 |
| Kerala State Seed Development Authority | 2360299 |
| KFRI, Peechi | 2699037 |
| Kerala Institute of Local Administration (KILA) | 2201061 |
| Kerala Land Development Corporation | 2331092 |
| Kole Development Agency | 2339353 |
| Lead Bank (Canara Bank) | 2331156 |
| NABARD | 2321718 |
| NBPGR, Vellanikkara | 2370499 |
| Principal Agricultural Officer | 0487-2444297 |
| e-mail : jda.tsr@gmail.com | Fax: 0487-2444297 |
| Ramanilayam Guest House | 2332016 |
| Regional Soil Analytical Lab | 2341590 |

PALAKKAD

STD Code : 0491

| | |
|-------------------------------------|---------|
| CADA, Joint Director of Agriculture | 2535473 |
| District Animal Husbandry Officer | 2520297 |
| District Collector | 2505266 |
| District Co-operative Bank | 2547326 |
| District Information Officer | 2505329 |

| | |
|---|--------------------|
| District Panchayat President | 2505638 |
| District Soil Survey Officer | 2505455 |
| District Soil Conservation Officer | 2505860 |
| Guest House | 2529966 |
| Dy. Director, Dairy Development Dept | 2505137 |
| Dy. Director, Fisheries Dept | 2816061 |
| Horticulture Development Farm, Malampuzha | 2816135 |
| Integrated Seed Development Farm, Eruthiampathy | 04923 236007 |
| Joint Registrar of Co-operative Societies | 2505529 |
| KAMCO, Kanjikode | 2567258 |
| Kerala Agro Industries Corporation | 2547924 |
| KLD & MM Board, Dhoni | 2558547 |
| KVK, Pattambi | 0466 2212279 |
| NABARD | 2880698 |
| Orange and Vegetable Farm, Nelliampathy | 0492 3246225 |
| Project Director AHADS, Agali | 0492-4254518 |
| Principal Agricultural Officer | 2505075 |
| e-mail : paopkd@gmail.com | Fax : 0491-2527075 |
| RATTC, Malampuzha | 2815912 |
| Regional Poultry Farm, Malampuzha | 2555206 |
| State Seed Farm, Kunnannoor | 2572224 |
| VFPCCK, Alathur | 0492- 2222706 |
| Fertilizer Quality Control Lab, Pattambi | 0466 2212048 |

MALAPPURAM

STD Code 0483

| | | |
|-----------------------------------|---------|------------|
| Animal Husbandry Officer | 2734917 | |
| Arya Vaidyasala, Kottakkal | 2742216 | |
| Asst. Ex. Engineer (Agrl.) | | 9847411709 |
| Block Development Office | 2734459 | |
| Canara Bank (Lead Bank) | 2734881 | |
| Cashew Research Station, Anakayam | 2848239 | |
| District Forest Office | 2734803 | |
| District Collector | 2734355 | |
| District Co-operative Bank | 2734928 | |

| | |
|--|---------------------|
| District Fisheries Office, Ponnani | 0494 2666428 |
| District Industries Office | 2734812 |
| District Information Office | 2734387 |
| District Kudumbasree Office | 2733470 |
| District Social Forestry Office | 2734803 |
| District Panchayat President | 2734564 |
| District Soil Conservation Officer, Manjeri | 2767872 |
| District Soil Survey Office | 2739001 |
| Dairy Development Office | 2734944 |
| Kerala Agro Industries Corporation | 04931 247059 |
| Guest House | 2734311 |
| Joint Registrar of Co-op Societies | 2734994 |
| Kelappaji College of Engg. & Technology | 0494 - 2686214 |
| NABARD | 2734084 |
| Precision Farming Development Centre, Thavanur | 0494 3297592 |
| Principal Agricultural Officer | 2734916 |
| e-mail : paomalappuram@gmail.com | Fax : 0483- 2734916 |
| Seed Garden Complex, Munderi | 0493 1240090 |
| VFPCCK, Manjeri | 2768987 |
| Rest House | 2736274 |

KOZHIKODE

STD Code : 0495

| | |
|---------------------------------------|--------------|
| Agri. Urban Wholesale Market, Vengeri | 2376514 |
| All India Radio | 2366027 |
| Asst. Ex. Engineer (Agri.) | 2723766 |
| CWRDM | 2351801 |
| Directorate of Arecanut & Spices | 2369877 |
| Dairy Training Centre | 2414579 |
| District Animal Husbandry Officer | 2768075 |
| District Fisheries Officer | 2380005 |
| District Information Officer | 2370225 |
| District Soil Conservation Officer | 2370790 |
| District Soil Survey Officer | 2371060 |
| District Agri. Farm, Koothali | 0496-2662264 |

| | |
|---|--------------------|
| District Collector | 2371400 |
| District Panchayat President | 2370550 |
| Dy. Director, Dairy Development | 2371254 |
| Economic and Statistics | 2370248 |
| FIB Regional Office | 2370368 |
| FTC, Vengeri | 2373582 |
| Govt. Guest House | 2383920 |
| IISR Farm, Peruvannamoozhi | 0496 2249371 |
| IISR-Chelavoor | 2730294 |
| IMG | 2356095 |
| Joint Registrar of Co-op Societies | 2722334 |
| Kerala Agro Industries Corporation | 2370676 |
| KVK, Peruvannamuzhi | 0496 2662372 |
| Lead Bank | 2701895 |
| Malabar Botanic Garden | 2430939 |
| NABARD | 2741176 |
| Principal Agricultural Officer | 2370897 |
| e-mail : paokzd@gmail.com | Fax : 0495 2370897 |
| Regional Soil Analytical Laboratory (Soil Survey) | 2372040 |
| Spices Board | 2302980 |
| State Seed Farm, Perambra | 0496 2615234 |
| State Seed Farm, Puthuppady | 0496 2512340 |
| VFPC | 2225517 |

WAYANAD

STD Code : 04936

| | |
|-----------------------------------|--------|
| Collectorate | 202251 |
| District Animal Husbandry Officer | 202292 |
| DFO, South Wayanad | 203428 |
| DFO, North Wayanad | 240233 |
| Canara Bank (Lead Bank) | 202255 |
| District Information Officer | 202529 |
| District Panchayat Office | 202490 |
| Dy. Director Panchayath | 202634 |
| District Soil Survey Officer | 246330 |
| District Soil Conservation Office | 203756 |
| Dy. Director, Dairy Development | 202093 |
| District Industries Centre | 202485 |
| ITDP Project Office | 202256 |
| Mining and Geology | 248235 |
| District Treasury | 202639 |

| | |
|---|--------------------|
| SBT Kalpetta | 202063 |
| District Soil Testing Lab,Mananthavady | 04935-242499 |
| District Planning Officer | 202626 |
| District PSC Office | 202539 |
| College of Vet&Animal Science | 256380 |
| Dist. Mission Coordinator, Kudumbasree | 206589 |
| Dist. Co-op. Bank, Kalpetta | 202650 |
| Govt.Guest House, Sulthan Bathery | 220225 |
| Rest House Kalpetta | 202241 |
| Rest House Mananthavady | 04935-240230 |
| DTO KSRTC Kalpetta | 202611 |
| FRIENDS Janasevanakendram | 202580 |
| Joint Registrar of Co-op. Societies | 202267 |
| Hitech Soil Analytical Laboratory | 207750 |
| Kerala Agro Industries Corporation | 220316 |
| KVK, Ambalavayal | 260411 |
| M.S Swaminathan Research Foundation, Kalpetta | 204477 |
| RDO Mananthavady | 04935 240222 |
| Coffee Board | 247306 |
| Coffee Research Station,Chundale | 202256 |
| NABARD | 203573 |
| NIC | 202763 |
| District Sericulture Officer | 203774 |
| District Fisheries Office | 255214 |
| Principal Agricultural Officer | 202506 |
| e-mail : paowayd@gmail.com | Fax : 04936-202506 |
| RARS, Ambalavayal | 260421 |
| Rural Agri Wholesale Market, Sulthanbathery | 223192 |
| RDO, Mananthavady | 04935 - 240222 |
| Spices Board | 202605 |
| Veterinary Hospital | 202729 |
| VFCK | 286012 |

KANNUR

STD Code 0497

| | |
|--|--------------|
| AIR | 2748581 |
| Aralam Farm | 0490-2444740 |
| Assistant Executive Engineer (Agri) Kannur aeeagriknr@gmail.com | 2725229 |
| Asst. Director of Agri. (Mktg) | 2705078 |
| Atma Kannur | 0490-2365154 |
| Coconut Nursery, Palayad cnpalayad@gmail.com | 0490-2345766 |
| CWRDM | 2706300 |

| | |
|--|---------------|
| DAF, Taliparamba | 0460-2203154 |
| Dist Co-Op Bank | 2700001 |
| Deputy Director, Dairy Development | 2707859 |
| Deputy Director, Fisheries | 2731081 |
| District Agricultural Farm, Taliparamba kannurdaf@gmail.com | 0460-2203154 |
| District Animal Husbandry Officer | 2700267 |
| District Collector | 2700243 |
| District Forest Officer | 2704808 |
| District Information Officer | 2700231 |
| District Panchayat Office | 2700205 |
| District Panchayat President | 2700306 |
| District Planning Officer | 2700765 |
| District Soil Conservation Officer | 2768260 |
| District Soil Survey Officer | 2712818 |
| District Soil Testing Lab, Taliparamba dstlknr@gmail.com | 0460-2206812 |
| District Statistical Officer | 2700405 |
| District Treasury Officer | 2700683 |
| DMO | 2700709 |
| DRDA | 2700143 |
| FACT | 2741757 |
| Govt. Press Kannur | 2747306 |
| Govt. Guest House | 2706426 |
| Ground Water Dept | 2709892 |
| Horticorp | 2783730 |
| Joint Registrar of Co-op Societies | 2700413 |
| K.V.K. Panniyoor | 0460-2226087 |
| Kerala Agro Industries Corporation | 2761404 |
| Lead Bank Dist. Manager, Syndicate Bank | 2768994 |
| Mobile Soil Testing Lab ,Kannur mstlascknr@gmail.com | |
| NABARD | 2700030 |
| NIC | 2700761 |
| Pepper Research Station, Panniyoor | 0460-2227287 |
| Press Club Kannur | 2700638 |
| Principal Agricultural Officer jdaknr@gmail.com | 2706154 |
| PWD Rest House, Thalassery | 0490-2320468 |
| Raidco | 2700663 |
| RATTC, Taliparamba ddarattctpba@yahoo.com | 0460- 2203151 |
| RDO Thalassery | 0490-2343500 |
| SAGL Taliparamba saglkannur@gmail.com | 0460-2205773 |
| Soil Conservation Office | 0460 -2768260 |
| State Seed Farm ,Kankole | 0498-5280050 |

| | |
|--------------------------------|--------------|
| ssfankol@gmail.com | |
| State Seed Farm ,Vengad | 0490-2308047 |
| vengadfarm@gmail.com | |
| Sugarcane Research Institute | 2705054 |
| T x D Pollination Unit Chalode | |
| txdchalode@gmail.com | |
| VFPCK | 2708211 |

KASARAGOD

STD Code : 04994

| | |
|-------------------------------------|-------------------------------|
| Asst. Ex. Engineer Agri. | 04994225570 |
| Asst. Soil Chemist | 04994227428 |
| Cashew Development Officer | 04994262272. |
| Coconut Research Station, Nileshwar | 04672 - 280358 |
| College of Agriculture, Padannakkad | 04672 - 280616 |
| CPCRI | 04994232893 |
| | 04994232894 |
| | 04994232895 Fax : 04994232322 |
| District Animal Husbandry Officer | 04994255483 |
| District Collector | 04994256400 |
| District Co-op. Bank | 04994220118 |
| District Information Officer | 04994255145 |
| District Soil Conservation Officer | 04994256658 |
| District Soil Survey Officer | 04994257450 |
| District Veterinary Hospital | 04994230184 |
| Dy. Director, Dairy Development | 04994255475 |
| Dy. Director, Fisheries | 04672 - 202537 |
| Govt. Guest House | 04994230666 |
| Lead Bank (Syndicate Bank) | 04994230170 |
| NABARD | 04994220427 |
| Principal Agricultural Officer | 04994255346 |
| e-mail : paoksd1@gmail.com | Fax : 04994 255346 |
| RARS, Pilicode | 04672-260632 |
| KVK (CPCRI) | 04994232993 |
| Sub centre RARS, Vorkady | 04998 202203 |

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KRISHIBHAVANS & ADA OFFICES**

THIRUVANANTHAPURAM

| Name of Office | Landline Number | Official e-mail id |
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| PAO Office APAO TA | District Office 0471 2733334 9447102925 9496260489 | paotvpm@gmail.com |
| ADA PARASSALA Parassala Karode Chenkai Kulathoor Thirupuram Poovar | 0471-2234421 2201622 2217788 2230922 2217700 2263522 2211922 | adaparassala@gmail.com. kbparrassala@gmail.com agorajapushpam@gmail.com aokbchenkai@gmail.com aokbkulathoor@gmail.com aothirupuram@gmail.com poovarkb@gmail.com |
| ADA ARYANCODE Perumpazhuthoor Perumkadavila Kollayil Kunnathukal Ottasekhara mangalam Aryancode Vellarada Amboori Kallikadu | 0471 2255171 2227322 2275922 2252322 2252122 2256622 0471-2256422 0471-2244222 0471 2246022 0471- 2272422 | asidirary2015@gmail.com aokbperumpazhuthoor@gmail.com kbperumkadavila@gmail.com krishibhavankollayil@gmail.com aokunnathukal@yahoo.com krishibhavanosm@gmail.com aryancodekb@gmail.com kbvellarada@gmail.com amboorikb@gmail.com kballikad@gmail.com |
| ADA NEYYATTINKARA Athiyannoor Karumkulam Kanjiramkulam Kottukal Vizhinjam Venganoor Thiruvallam Neyyattinkara | 0471-2220066 0471-2227122 0471-2260099 0471-2262722 0471-2267122 0471-2482422 0471-2481822 0471-2381822 0471-2227022 | adaneyyattinkara@gmail.com kbathiyannoor@gmail.com kbkarumkulam@gmail.com kbkanjiramkulam@gmail.com kpkottukal@gmail.com kbvizhinjam@gmail.com kbvenganoor@gmail.com kbthiruvallam@gmail.com kbneyyattinkara@gmail.com |
| ADA PALLICHAL Pallichal Vilappil Malayinkeezhu Nemom Maranallor Kalliyoor Balaramapuram Vilavoorkal Thiruvananthapuram Corporation | 0471 -2279009 0471 - 2390541 0471 -2286022 0471 - 2284022 0471 - 2394122 0471 - 2297306 0471 - 2405322 0471 - 2405122 0471 - 2280686 0471 -2320942 | adapallichal@gmail.com kbpallichal@gmail.com vilappilkb@yahoo.co.in nirmalancg@gmail.com aokrishibhavannemom@gmail.com kbmaranallor@gmail.com kpkalliyoor@yahoo.com kbbalaramapuram@gmail.com kbvilavoorkal@gmail.com afotvmcitycorporation@gmail.com |
| ADA VAMANAPURAM Kallara Manickal Nanniyode | 0472-2837172 0472 2821922 0472-2581282 0472-2840023 | adavamana@gmail.com aokallara@gmail.com aomanicka@gmail.com aonanniyode@gmail.com, |

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Pullampara 0472-2829922
Vamanapuram 0472-2835122
Pangode 0472 2868084

ADA NEDUMANGADU

Vembayam 0472-2830847
Anad 0472-2801945
Panavoor 0472-2866422
Nedumangad 0472-2812548
Karakulam 0471-2370094
Aruvikkara 0472-2887633
Kudappanakunnu 0471-2731322
Vattiyookavu 0471-2367622

ADA KATTAKADA

Aryanadu 0472 2854922
Kattakada 0471 2290922
Kuttichal 0472-2854822
Poovachal 0472 2895220
Vellanadu 0472 2883722
Vithura 0472 2858922
Uzhamalakkal 0472 2899222
Tholicode 0472 2859022

ADA KAZHAKUTTOM

Mangalapuram 0471-2420098
Andoorkonam 0471-2754022
Pothencode 04712718026
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Kazhakuttom 0471-2418522
Kadakampally 0471-2740822
Kadinamkulam 0471-2754322
Attipra 0471-2412822
Sreekariyam 0471-2591722

ADA ATTINGAL

Chirayinkeezh 0470-2645422
Attingal 0470-2623121
Azhoor 0470-2635022
Mudakkal 0470-2632090
Vakkom 0470-2653200
Kizhuvilam 0470-2645322
Anchuthengu 0470-2658022
Kadakkavoor 0470-2658122

ADA VARKALA

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Cherunniyur 0470-2610222
Edava 0470-2663122
Elakamon 0470-2668422
Manambur 0470-2620922
Ottoor 0470-2687022
Vettoor 0470-2611322
Varkala 0470-2608022

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ADA PULIMATH

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 Karavaram
 Kilimanoor
 Nagaroor
 Madavoor
 Pallickal
 Pazhayakunnummel
 Pulimath

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Farms & Labs

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 Banana Nursery, Peringamala
 SSF Chirayinkeezhu
 SSF Ulloor
 CN Valiyathura
 CN Kazhakuttom
 STL Parottukonam
 MSTL Parottukonam
 AgMark Lab, Anayara
 Parasite Breeding Station, Parottukonam

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 2530578
 0471 2740622

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 0471 2754022

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KOLLAM**Name of Office****Landline Number****Official e-mail id**

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TA
 DDA(E&T)

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 0474-2797989

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ATMA, Kollam
 Project Director ATMA

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ADA SASTHAMCOTTA

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 West Kallada
 Poruvazhy
 Sooranad South
 Mynagappally
 Kunnathur

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 Mylom
 Pavithreswaram
 Ummannoor
 Vettikkavala

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 Nilamel
 Kadakkal
 Kummil
 Chithara
 Ittiva
 Elamad
 Velinalloor

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 0474-2475114
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 Clappana
 Kulasekharapuram
 Thazhava
 Thodiyoor
 Alappad
 Karunagappally

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 Edamulakkal
 Thenmala
 Yeroor
 Karavaloor
 Anchal
 Alayamon

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 0475-2317234
 0475-2211163
 0475-2207220
 0475-2335355
 0475-2270367
 0475-2221390
 0475-2270710
 0475-2271216

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 kbyeroor@gmail.com
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 kbanchal@gmail.com
 alayamonkb@gmail.com

ADA ERAVIPURAM

Eravipuram
 Vadakkevila
 Kilikolloor
 Kollam
 Sakthikulangara
 Mayyanad
 Thrikkovilvattom
 Kottamkara
 Elampalloor

0474-2719167
 0474-2726157
 0474-2713941
 0474-2710135
 0474-2751212
 0474-2770412
 0474-2530304
 0474-2501597
 0474-2707868
 0474-2580454

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 kbkollam@gmail.com
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 kbthrikkovilvattom@gmail.com
 aokbkottamkara@gmail.com
 aoelampalloor@gmail.com

ADA CHAVARA

Chavara
 Panmana
 Thevalakkara
 Thekkumbhagom
 Neendakara

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 0476-2684917
 0476-2671977
 0476-2872185
 0476-2883563
 0476-2680309

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 kbpanmana@gmail.com
 kbthevalakkara@gmail.com
 kbthekkumbhagom@gmail.com
 kbneendakara@gmail.com

ADA KUNDARA

Munroe Island
East Kallada
Perayam
Kundara
Perinad
Panayam
Thrikkadavur
Thrikkaruva

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0474- 2586545
0474-2542213
0474-2585728
0474-2522015
0474-2520743
0474-2546511
0474-2550732
0474-2700266
0474-2701261

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| DDA(NWDPRA) | 9495647939 | | |
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KANNUR**Name &Address of Office****Phone No.**

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| Office Name | Phone No | Mobile | e- mail ID |
|---|-------------|------------|------------------------------------|
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| Kannapuram | 04972860112 | 8281200019 | aokbkannapuram@gmail.com |
| Madayi | 04972874875 | 8281200129 | kadayikrishibhavan@gmail.com |
| Mattool | 04972843322 | 8281200178 | kbmattul@gmail.com |
| Narath | 04602240335 | 8281200022 | aonarath@gmail.com |
| ADA KANNUR | 04972747086 | 8281200555 | adakannur@gmail.com |

| | | | |
|-------------------------|-------------|------------|----------------------------------|
| Azhikode | 04972772372 | 8281200554 | aoazhikode@gmail.com |
| Chirakkal | 04972775199 | 8281200557 | kbchirakkal.@gmail.com |
| Pallikkunnu | 04972749522 | 8281200553 | kbpallikkunnu@gmail.com |
| Kannur | 04972700693 | | kannurkrishibhavan@gmail.com |
| Pappinissery | 04972788953 | 8281200020 | kbppy123@gmail.com |
| Puzhathi | 04972749622 | 8281200556 | kbpuzhathi@gmail.com |
| Valapattanam | 04972777321 | 8281200558 | kbvalapattanam@gmail.com |
| ADA Iritty | 04902486160 | 8281200300 | adairitty@gmail.com |
| Aralam | 04902456130 | 8281200307 | aokbaralam@gmail.com |
| Ayyankunnu | 04902456059 | 8281200308 | aokbayyankunnu@gmail.com |
| Keezhallur | 04902487220 | 8281200302 | aokbkeeshallur@gmail.com |
| Keezhur Chavassery | 04902433270 | 8281200304 | aokbkeezhurchavassery@ gmail.com |
| koodali | 04902487420 | 8281200303 | aokoodali@gmail.com |
| Mattannur | 04902474007 | | kbmattannur@gmail.com |
| Payam | 04902422455 | 8281200306 | aokbpayam@gmail.com |
| Thillankeri | 04902405270 | 8281200305 | aokbthillankey@gmail.com |
| ADA IRIKKUR | 04602297320 | 8281200201 | adaikr@gmail.com |
| Eruvessy | 04602212155 | 8281200204 | kberuvessy@gmail.com |
| Irikkur | 04602297340 | 8281200248 | kbirikkur@gmail.com |
| Kuttiattur | 04972790037 | 8281200211 | kbktrao@gmail.com |
| Malappattam | 04602235149 | 8281200208 | aokbmpm@gmail.com |
| Mayyil | 04602274066 | 8281200209 | aokbmayyil@gmail.com |
| Padiyoor | 04602278600 | 8281200205 | aokbpadiyoor@gmail.com |
| payyavoor | 04602210095 | 8281200203 | aokbpayyavoor@gmail.com |
| Sreekandapuram | 04602230494 | 8281200207 | aokbskpm@gmail.com |
| Ulikkal | 04602228160 | 8281200206 | ulikkalkb@gmail.com |
| ADA EDAKKAD | 04972824590 | 8281200500 | ada.edakkad@gmail.com |
| Chelora | 04972721318 | 8281200496 | aokbchelora@gmail.com |
| Chembilode | 04972850192 | 8281200531 | kbchembilode@gmail.com |
| Edakkad | 04972835796 | 8281200538 | aoedakkad@gmail.com |
| Elayavoor | 04972728125 | 8281200489 | kbelayavoor@gmail.com |
| Kadambur | 04972821288 | 8281200524 | kbkadambur@gmail.com |
| Kolachery | 04602242500 | 8281200212 | kbkolachery@gmail.com |
| Munderi | 04972857218 | 8281200503 | kbmunderi@gmail.com |
| Peralassery | 04972827182 | 8281200517 | kbperalassery@gmail.com |
| ADA THALASSERY | 04902344607 | 8281200435 | thalasseryada@gmail.com |
| Anjarakandy | 04972853443 | 8281200510 | kbanjarakandy@gmail.com |
| Dharmadam | 04902346066 | 8281200480 | aodharmadam@gmail.com |
| Eranholi | 04902389022 | 8281200466 | kberanholi@gmail.com |
| Kodiyeri | 04902357160 | | kbkodiyeri@gmail.com |
| Muzhappilangad | 04972833791 | 8281200545 | kbmuzhappilangad@gmail.com |
| New-Mahe | 04902333634 | 8281200473 | kbnewmahe@gamil.com |
| Pinarayi | 04902382713 | 8281200459 | kbpinarayi@gmail.com |
| THALASSERY BLOCK | 04902344703 | | kbthalassery@gamil.com |
| Vengad | 04902385237 | 8281200414 | kbvangad@gamil.com |
| Peravoor (M) | 04902443215 | 8281200333 | adapvr@gmail.com |
| Kanichar | 04902446680 | 8281200340 | kbkancr@gmail.com |
| Kelakam | 04902416101 | 8281200330 | aokelamam@gmail.com |
| Kolayad | 04902303384 | 8281200355 | krishibhavankolayad@gmail.com |
| Kottiyoor | 04902431177 | 8281200325 | aokkottiyoor@gmail.com |
| Maloor | 04902401200 | 8281200345 | apmalur@gamil.com |
| Muzhakkunnu | 04902458460 | 8281200320 | kbmuzhakkunnu@gmail.com |
| Peravoor | 04902443080 | 8281200310 | kbperavoor@gmail.com |

| | | | |
|-------------------------|--------------|------------|--------------------------------|
| ADA PANOOR BLOCK | 04902316016 | 8281200607 | adapanoor@gamil.com |
| Chokli | 04902338200 | 8281200438 | aokbchokli@gmail.com |
| Kadirur | 04902388233 | 8281200596 | kbkadirur@gmail.com |
| Kariyad | 04902394701 | 8281200445 | kbkariyad@gmail.com |
| Mokeri | 04902317067 | 8281200393 | aokbmcri@gmail.com |
| Panniyannur | 04902314454 | 8281200428 | aokbpanniannur@gmail.com |
| Panoor | 04902318570 | 8281200421 | aopanoor@gmail.com |
| Peringalam | 04902394260 | 8281200452 | aokbperingalam@gmail.com |
| Koothuparamba | 04902362090 | 8281200362 | aakuthu10@gmail.com |
| Chitariparamba | 04902300132 | 8281200365 | kbchitaariparamba@gmail.com |
| ADA KUTHUPARAMBA | 04902365080 | | kbkuthuparamba@gmail.com |
| Kunnothuparamba | 04902550808 | 8281200400 | kbknp2013@gmail.com |
| Kottayam Malabar | 04902364910 | 8281200379 | kbkottayammalabar@gmail.com |
| Mangattidam | 04902368061 | 8281200372 | aomanagattidam@gmail.com |
| Pattiam | 04902367189 | 8281200388 | kbpattiam@gmail.com |
| Thripangattur | 04902466227 | 8281200407 | agricultureofficertp@gmail.com |
| Aralam Farm | 04902444740 | | |
| AEE | 04972725229 | | |
| ATMA | 04902365154 | | |
| CN Palayad | 04902345766 | | |
| DAF Thaliparamba | 0460-2203154 | | |
| DSTL | 04602206812 | | |

KASARAGOD

| Name and Address of Office | Phone Number | e-mail ID |
|----------------------------|----------------------|-------------------------------|
| PAO Office | 04994- 255346 | paoksd1@gmail.com |
| | 9447812218 | |
| APAO | 9495679058 | |
| TA | 9400284270 | |
| ADA NILESHWAR | 0467-2280357 | adanileshwar@gmail.com |
| Nileshwar | 0467-2280517 | nileshwarkb@gmail.com |
| Kayyur-Cheemeni | 0467-2251301 | kbcheemeni@gmail.com |
| Cheruvathur | 0467-2263434 | kbcheruvathur@gmail.com |
| Padne | 0467-2213805 | kbpadne@gmail.com |
| Pilicode | 0467-2260298 | kbpilicode@gmail.com |
| Valiyaparamba | 0467-2258600 | kbvaliyaparamba@gmail.com |
| Trikaripur | 0467-2214230 | kbtrikarpur@gmail.com |
| ADA KANHANGAD | 0467-2207355 | adakgd@gmail.com |
| Udma | 0467-2237427 | krishibhavanudma@gmail.com |
| Pallikkara | 0467-2272124 | kbpallikkere@gmail.com |
| Ajanur | 0467-2268900 | krishibhavanajanur@gmail.com |
| Pullur-Periya | 0467-2233010 | kbpullurperiya@gmail.com |
| Madikai | 0467-2240644 | madikaikb@gmail.com |
| Kanhangad (M) | 0467-2202877 | kbkhdagri@gmail.com |
| ADA PARAPPA | 0467-2254121 | adaparappa@gmail.com |
| Balal | 0467-2242551 | krishibhavanbalal@gmail.com |
| Kodom Belur | 0467-2346100 | kbkbelur@gmail.com |

| | | |
|-----------------------|---------------------|---------------------------------|
| Panathady | 0467-2227010 | kbpanatadi@yahoo.com |
| Kallar | 0467-2224766 | kallarkrishibhavan@gmail.com |
| Kinanur-Karindalam | 0467-2259297 | krishibhavankkgp@gmail.com |
| West Eleri | 0467-2245599 | kbwesteleri@gmail.com |
| East Eleri | 0467-2222872 | kkbeasteleri@gmail.com |
| ADA KASARAGOD | 04994 226108 | adaksd@yahoo.com |
| Madhur | 04994 231288 | madhurkrishibhavan@gmail.com |
| Mogralputhur | 04994 232006 | kbmogralputhur@gmail.com |
| Chengala | 04994 280065 | aokbchengala@yahoo.com |
| Kasaragod (M) | 04994-230560 | afokbksd@gmail.com |
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| Kumbla | 04998 216802 | aokbkumbla@gmail.com |
| Badiadka | 04998 286696 | aobadiadka@gmail.com |
| ADA KARADKA | 260350 | karadkaada@gmail.com |
| Muliyar | 04994252649 | muliyarkrishibhavan@gmail.com |
| Karadka | 04994260356 | krishibhavankaradka@gmail.com |
| Delampady | 04994270095 | delampadykbb@gmail.com |
| Bedadka | 04994210201 | aokbbedadka@gmail.com |
| Kuttikol | 04994205353 | kuttikolkbb@gmail.com |
| Kumbadaje | 04998 260009 | kbkumbdaje@gmail.com |
| Bellur | 04998 266022 | krishibhavanbellur@yahoo.in |
| ADA MANJESHWAR | 04998 274447 | manjeshwarada@yahoo.com |
| Vorkady | 04998 202321 | vorkadykrishibhavan@yahoo.com |
| Manjeshwar | 04998-273321 | manjeshwarkb@yahoo.com |
| Meenja | 04998 252321 | meenjakb@yahoo.com |
| Mangalpady | 04998 240049 | aokbmangalpady@yahoo.com |
| Paivalike | 04998 205175 | paivalikekrishibhavan@yahoo.com |
| Puthige | 04998 245210 | puthigekrishibhavan@yahoo.com |
| Enmakaje | 04998 225231 | krishibhavanenmakaje@yahoo.in |
| Kumbla | 04998 216802 | aokbkumbla@gmail.com |
| Badiadka | 04998 286696 | aobadiadka@gmail.com |
| ADA KARADKA | | karadkaada@gmail.com |
| Muliyar | 04994252649 | muliyarkrishibhavan@gmail.com |
| Karadka | 04994260356 | krishibhavankaradka@gmail.com |
| Delampady | 04994270095 | delampadykbb@gmail.com |
| Bedadka | 04994210201 | aokbbedadka@gmail.com |
| Kuttikol | 04994205353 | kuttikolkbb@gmail.com |
| Kumbadaje | 04998 260009 | kbkumbdaje@gmail.com |
| Bellur | 04998 266022 | krishibhavanbellur@yahoo.in |
| ADA MANJESHWAR | 04998 274447 | manjeshwarada@yahoo.com |
| Vorkady | 04998 202321 | vorkadykrishibhavan@yahoo.com |
| Manjeshwar | 04998-273321 | manjeshwarkb@yahoo.com |
| Meenja | 04998 252321 | meenjakb@yahoo.com |
| Mangalpady | 04998 240049 | aokbmangalpady@yahoo.com |
| Paivalike | 04998 205175 | paivalikekrishibhavan@yahoo.com |
| Puthige | 04998 245210 | puthigekrishibhavan@yahoo.com |
| Enmakaje | 04998 225231 | krishibhavanenmakaje@yahoo.in |

INSTITUTIONS UNDER DEPARTMENT OF AGRICULTURE

1 DEPARTMENTAL FARMS

| Name of Farm | Planting materials available |
|---|--|
| THIRUVANANTHAPURAM | |
| District Agricultural Farm, Peringamala 0472-2846488 | Cashew graft, Arecanut, Guava Layer, Sapota Layer, Mango graft, Jack graft, Clove seedlings, Cinnamon seedlings, Minor fruit plants, Tuber crops, Ornamental plants, Pepper cuttings, Vegetable seeds. |
| Banana Nursery, Peringamala 0472 2846622 | Banana suckers, Arecanut seedlings, Guava layer, Mango graft, Minor fruit plants, Ornamental plants, Pepper cuttings, Cashew grafts, Sapota. |
| State Seed Farm, Ulloor 0471 2530035 | Paddy seeds, Vegetable seeds |
| State Seed Farm, Chirayinkil 0470 2644291 | Paddy seeds, Vegetable seeds |
| Coconut Nursery, Valiyathura 0471 2508222 | Coconut seedlings, Vegetable seeds |
| Coconut Nursery, Kazhakuttam 0471 2413195 | Coconut seedlings, Vegetable seeds |
| KOLLAM | |
| District Agricultural Farm, Anchal 0475 - 2270447 dafanchal@gmail.com | Pepper cuttings, Cashew grafts, Sapota graft, Mango graft, Jack graft, Banana suckers, Citrus, Pineapple suckers, Cherry layers, Papaya seedlings, Medicinal plants, |
| Cashew Farm, Kottarakkara - 0474 – 2045235 ssfokottarakkara@gmail.com | Cashew graft |
| State Seed Farm, Kottarakkara - 0474-2045235 | Paddy seeds, Vegetables seeds, Tuber Crops, Banana Suckers |
| State Seed Farm, Karunagapally - 0476 – 2620290 scnkarunagappally@gmail.com | Vegetable Seeds. |
| State Seed Farm, Kadakkal - 0474 – 2426666 adassfkadakkal@gmail.com | Paddy seeds, Vegetable seeds, Banana suckers. |
| PATHANAMTHITTA | |
| State Seed Farm, Adoor 04734-227868 | Paddy seeds, Pepper cuttings, Banana suckers, Vegetable seeds, Tubers. |
| State Seed Farm, Pulladu 0469 2661917 | Paddy seeds, Pepper cuttings, Banana suckers, Tuber crops. |
| Sugarcane Seed Farm, Pandalam 04734 252500 | Sugarcane setts, Banana suckers, Arecanut seedlings, Pepper cuttings. |

ALAPPUZHA

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| District Agricultural Farm, Mavelikkara 0479 2357690 | Coconut seedlings, Pepper cuttings, Cashew graft, Guava layer, Sapota graft, Jack graft, Clove seedlings, Nutmeg graft, Ginger & Turmeric Rhizomes, Mango graft, Banana suckers, Pineapple suckers. |
| State Seed Farm, Arunoottimangalam 0479 2358700 | Paddy seeds, Pepper cuttings, Vegetable seeds, Banana suckers. |
| State Seed Farm, Veeyapuram 0479 2318490 | Paddy seeds, Banana suckers, Vegetable seeds. |

KOTTAYAM

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|---|---|
| District Agricultural Farm, Kozha 9496000936, 9947745114 | Pepper cuttings, Guava layer, Sapota graft, Mango graft, Jack graft, Clove seedlings, Cinnamon, Ginger (Rhizome), Turmeric (Rhizome), Banana suckers, Minor fruit plants, Cocoa graft, Mangosteen, Tubers, Vegetable seeds. |
| State Seed Farm, Kozha 9496000934 | Paddy seeds, Vegetable seeds |
| State Seed Farm, Valachira 8281652915 | Paddy seeds, Pepper cuttings |

IDUKKI

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|--|---|
| District Agricultural Farm, Arikuzha 04862 278599 | Coconut seedlings, Pepper cuttings, Vegetable seeds, Cashew graft, Jack grafts, Banana sucker, Ginger, Turmeric, nutmeg graft, minor fruits, cocoa seedlings. |
| State Seed Farm, Karimannoor 04862 263560 | Paddy seeds, Pepper cuttings |
| State Vegetable Farm, Vandiperiyar 04869 253543 | Pepper cuttings, Cool season Vegetable seeds, Ornamental plants, Banana sucker, Ginger & turmeric rhizomes, Coffee seedlings. |

ERNAKULAM

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|--|--|
| District Agrl. Farm, Neriya Mangalam 0485 2554416 | Coconut seedlings, Pepper cuttings, Cashew graft, Arecanut seedlings, Guava layer, Sapota graft, Jack graft, Mango graft, Clove seedlings, Nutmeg graft, Ginger & Turmeric, rhizomes, Cinnamon, Banana suckers |
| State Seed Farm, Aluva 9447465365 | Paddy seeds, Vegetable seeds |
| State Seed Farm, Okkal 9447388326 | Paddy seeds, Banana suckers, Vegetable seeds |
| Coconut Nursery, Vyttila 0484 – 2700779 | Coconut seedlings |

THRISSUR

| | | |
|--|-----------------------------|--|
| District Agricultural Farm, Chelakkara | 9496003614 04884 2526636 | Coconut seedlings, Pepper cuttings, Cashew graft, Banana suckers, Tapioca setts, Minor fruit plants, Vegetable seeds |
| State Seed Farm, Mannuthy | 9496003619 | Paddy seeds, Coconut seedlings, Pepper cuttings, Guava layer, Sapota graft, Mango graft, Jack graft, Cinnamon graft, Minor fruit plants, Vegetable seeds |
| State Seed Farm, Kodassery | 9496003617 9496802620 | Paddy seeds, Mango graft, Vegetable seeds, Pepper cuttings. |
| State Seed Farm, Nadavarambu | 9447829429 | Paddy seeds, Tubers, Pepper cuttings |
| State Seed Farm, Edathuruthy | 9496003618 | Paddy seeds |
| State Seed Farm, Pazhayannor | 04884226260 | Coconut seedlings, Vegetable seeds, Paddy seeds, Pepper cuttings |
| State Seed Farm, Pananchery | 9496003620 | Paddy seeds, Pepper cuttings, Sapota graft, Mango graft, Minor fruit plants, Vegetable, seeds, Tubers |
| Coconut Nursery, Irinjalakuda | 9496003624 | Coconut seedlings, Pepper cuttings, Banana suckers, Vegetable seeds. |
| Model Horticultural Farm, Kannara | | |

PALAKKAD

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|---|---|
| Horticulture Development Farm, Malampuzha 0491 285331, 9446531558 | Pepper cuttings, Vegetable seeds, Ornamental plants, Guava layer, Sapota graft, Mango graft, Jack graft, Clove seedlings, Banana suckers, Minor fruit plants, Tubers, Coconut seedlings, Cinnamon. |
| Orange & Vegetable Farm, Nelliyampathy 0492 -3246225 | Coffee, Acid lime, Vegetable seeds, Ornamentals, Fruit products |
| Integrated Seed Development Farm, Eruthiampathy 0492-3236007 | Cashew graft, Guava layer, Sapota graft, Mango graft, Vegetable and pulses seeds, Tubers, Pepper cuttings. |
| Central Orchard, Pattambi 0466-2212009 | Sapota graft, Mango graft, Tubers, Minor fruit plants, Anthurium, Vegetable seeds |
| State Seed Farm, Alathur 0492-2223313 | Paddy seeds, Vegetable seeds |
| State Seed Farm, Kunnanoor 0491 2572224 | Paddy seeds, Pepper cuttings, Banana suckers, Ornamental plants |
| State Seed Farm, Kongadu 0491-2102121 | Paddy seeds, Vegetable seeds |

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|---|--|
| State Seed Farm, Ananganadi 0466-2243171 | Paddy seeds |
| State Seed Farm, Muthalamada 04923-212125 | Paddy seeds, Vegetable seeds, Cinnamon, Ginger |
| MALAPPURAM | |
| Seed Garden Complex, Munderi 04931-209040, 209044 | Pepper cuttings, Guava layer, Ginger & Turmeric (Rhizome), Banana suckers, Minor fruit plants, Tapioca setts, Ornamentals, Vegetable seeds |
| District Agricultural Farm, Chungathara 04931 230104 | Pepper cuttings, Cashew grafts, Guava layer, Sapota graft, Jack graft, Turmeric & Ginger (Rhizome), Banana suckers, Vegetable seeds, Minor fruit plants. |
| State Seed Farm, Chokkad 04931 212144 | Paddy seeds, Banana suckers, Vegetable seeds, Pepper cuttings. |
| State Seed Farm, Thavannoor 0494 2628061 | Paddy seeds, Banana suckers, Arecanut seedlings. |
| State Seed Farm, Anakkayam 0483 2848126 | Paddy seeds, Pepper cuttings, Banana suckers, Vegetable seeds |
| Coconut Nursery, Parappanangadi 0494 - 2413314 | Coconut seedlings, Vegetable seeds, Pepper cuttings, Cashew grafts, Ginger & Turmeric (rhizomes), Banana suckers |
| KOZHIKODE | |
| District Agricultural Farm, Koothali 0496 2662264 | Pepper cuttings, Cashew grafts, Arecanut seedlings, Guava layer, Sapota graft, Mango graft, Jack graft, Clove seedlings, Nutmeg graft, Banana suckers, Pineapple suckers, Vegetable seeds, Ginger & Turmeric rhizomes, Tubers, Medicinal plants. |
| State Seed Farm, Perambra 0496 2614221 | Paddy seeds, Vegetable seeds, Pepper cuttings |
| State Seed Farm, Pudupadi 0495-2220175 | Paddy seeds, Vegetable seeds, Banana suckers, Pepper cuttings. |
| Coconut Nursery, Thikkodi 0496 2606788 | Coconut seedlings, Pepper cuttings, Vegetable seeds, Banana suckers, Tubers, Ornamental plants. |
| KANNUR | |
| District Agricultural Farm, Taliparamba 0460 2203154 | Pepper cuttings, Cashew graft, Arecanut, Guava layer, Sapota graft, Mango graft, Jack graft, Clove seedlings, Nutmeg graft, Cinnamon, Ginger & Turmeric rhizomes, Banana suckers, Other fruit plants, Vegetable seeds |
| State Seed Farm, Vengad 0490 2308047 | Paddy seeds, Vegetable seeds, Pepper cuttings, Cashew grafts |
| State Seed Farm, Kankole 0498 5280050 | Paddy seeds, Pepper cuttings |
| Coconut Nursery, Palayad 0490-2345766 | Coconut seedlings, Pepper cuttings, Vegetable seeds. |
| T x D Farm, Chalod, Kannur | |

KASARAGOD

State Seed Farm, Kasaragod
04994 230610

State Seed Farm, Pullor
0467 2268808

Cashew Development Office
04994 262272

Paddy seeds, Pepper cuttings, Arecanut seedlings, Banana suckers, Ornamentals, Vegetable seeds

Paddy seeds, Pepper cuttings, Ornamental Plants, Vegetable Seeds, Banana suckers

Cashew graft, Mango graft, Vegetable seeds.

Cashew Progeny Orchard, Aadoor, Gwalimugha, Kasaragod

2. DISTRICT SOIL TESTING LABORATORIES (DSTL) IN KERALA

1. District STL, Parottukonam, Nalanchira.P.O., Thiruvananthapuram - 695 015. Ph: 9446495060
2. DSTL, Mamoottil Kadavu, Kavanadu.P.O., Kollam. Ph: 0474-2797869
3. DSTL, Sanathanapuram, Alappuzha -3. Ph: 0477-2266862
4. DSTL, Kadakkad, Pandalam, Pathanamthitta. Ph: 04734-256645
5. DSTL, Kozha P.O., Kottayam. Ph:0482-2231156
6. DSTL, Areekuzha P.O., Thodupuzha, Idukki. Ph: 04862-281162
7. DSTL, Vyttila, Ernakulam, Kochi-19. Ph: 0484-2703976
8. DSTL, Chempukavu, Thrissur - 20. Ph: 0480-2701630
9. DSTL, Mele Pattambi, Palakkad - 679 306. Ph:9447075482
10. DSTL, Up Hills, Malappuram - 5. 0483-2731390, 9947288069
11. DSTL, Tikkoti, Kozhikode. Ph: 0496-2600250
12. DSTL, Mananthavady, Wayanad. Ph: 04935-242499
13. DSTL, Karimbum P.O., Thaliparambu, Kannur. Ph: 0460-2206812
14. DSTL, Seed Farm Complex (Agri.), A.T. Road, Kasaragod. Ph: 04994-227438

3. CENTRAL SOIL PLANT HEALTH CENTRE (CSPHC)

CSPHC, Parottukonam, Nalanchira P.O., Thiruvananthapuram - 695 015. Phone : 2530578

4. MOBILE SOIL TESTING LABORATORIES (MSTL)

1. MSTL, Parottukonam, Nalanchira P.O., Thiruvananthapuram - 695 015. Ph: 9961797014
2. MSTL, Mamoottil Kadavu, Kavanadu.P.O., Kollam. Ph: 04742797795
3. MSTL, Sanadanapuram, Kalarkodu, Alappuzha. Ph: 0477-2266863 Alappuzha - 3.
4. MSTL, Up Hills, Malappuram - 5. 0483-2731390, 9447202953
5. MSTL, Tikkoti, Sanadanapuram, Kozhikode. Ph: 9446494410
6. MSTL, Karimbum P.O., Thaliparambu, Kannur. Ph: 9496752333

- | | |
|---|--|
| 7. MSTL, Chempukavu, Thrissur - 20. Ph: 9446537419 | 8. MSTL, Kozha.P.O., Kottayam. Ph: 0482-2230030 |
| 9. MSTL, Mele Pattambi, Palakkad - 679 306. Ph: 0466-2212993 | 10. Central STL, Parottukonam, Nalanchira.P.O., Trivandrum. |

5. FERTILIZER QUALITY CONTROL LABORATORIES (FQCL)

- | | |
|---|---|
| 1. FQCL, Parottukonam, Nalanchira P.O., Thiruvananthapuram - 695 015. Email: fqcltvpam.agri@gmail.com Ph: 0471-2530578 | 2. FQCL, Pattambi, Palakkad - 679 306. Email: fqclptb@gmail.com Ph: 0466 2212048 |
|---|---|

6. PESTICIDE TESTING LABORATORY (PTL)

PTL, Parottukonam, Nalanchira P.O., Thiruvananthapuram - 695 015. Ph: 0471-2530867
Email: ddapptl.agri@gmail.com

7. SEED TESTING LABORATORIES (STL)

- | | |
|---|---|
| 1. State Seed Testing Laboratory, Kalarcode, Alappuzha - 688 003 Email: sstlalappuzha@gmail.com 0477 2268615 | 2. Seed Testing Laboratory, Parottukonam, TVM - 15. Email: aosstltvpm@gmail.com |
|---|---|

8. AGMARK GRADING LABORATORIES OF KERALA (SAGL)

- | | |
|---|---|
| 1. SAGL, Agricultural Wholesale Market, Venpalavattom, TVM-695029. Ph:0471 2558930 | 6. SAGL, Vyttila, Thammanam P.O., Ernakulam. Ph: 9495427788 |
| 2. SAGL, Thirumullavaram, Kollam - 12. Ph: 0474 2791410 | 7. SAGL, KAEP Building, Opp. St. Joseph's Womens College, Irinjalakuda P.O., Thrissur. Ph: 9496003624 |
| 3. SAGL, PM 354/12, Illrd Floor, P.P. Road, Pathanamthitta. Ph:04734 252801 | 8. SAGL, Pallimukku, Thathamangalam P.O., Palakkad. Ph: 04923 228015 |
| 4. SAGL, Beach Road, Sea View Ward, Alappuzha - 12. Ph:9447804033 | 9. SAGL, Malaparamba P.O., Kozhikode - 9. Ph: 9495647939 |
| 5. SAGL, Near H.D. Commercial Centre, Kottayam - 1. Ph: 9496000935 | 10. SAGL, Civil Station, F block, Kannur. Ph: 0460 2205773 |

9. STATE BIO-CONTROL LAB, MANNUTHY

Phone : 0487-2374605, 9496003629

The Bio-control Lab, Mannuthy in Thrissur district is functioning under the Department of Agriculture with the aim of producing maximum quantity of bio-control agents and distributing to the farmers at reduced price. Biocontrol agents such as *Trichogramma* (Tricho cards @Rs.45/cc) to control Rice leaf folder, American boll worm, Pink boll worm, Rice yellow stem borer, Tomato fruit borer; *Trichoderma viride* (Rs.105/kg) to control most of the soil and seed borne plant pathogens; *Pseudomonas fluorescens* (Rs.75/kg) to control fungal and bacterial diseases, *chitin enriched Pseudomonas* (Rs.90/kg) to control leaf roller of paddy; *Beauveria bassiana* (Rs.75/kg) to control rice bug, BPH, coleopteran borers etc. *Verticillium lecanii* (Rs. 75/kg) to control soft bodied insects are produced here.

10. BIO-TECHNOLOGY AND MODEL FLORICULTURE CENTRE

KAZHAKUTTAM, THIRUVANANTHAPURAM

Phone : 0471-2413739

The Centre is equipped with a tissue culture laboratory carrying out micro propagation work in Banana, Orchids, Anthurium, Pepper and Vanilla. A sales counter for sale of planting materials and seeds produced in Departmental Farms, a mobile sales unit for sale of Departmental products like Jam, Jelly, Squash etc. apart from planting materials is also functioning here.

11. STATE BIO-FERTILIZER LABORATORY (SBFL)

- | | |
|---|---|
| 1. SBFL, Parottukonam, Nalanchira P.O. Thiruvananthapuram-695 015, Phone : 0471-2530578 | 2. BFL, Mele Pattambi P.O Palakkad Dist. - 679 306 Phone : 0466-2212048 |
|---|---|

12. PARASITE BREEDING STATIONS (PBS)

- | | |
|---|--|
| 1. PBS, Parottukonam, Nalanchira P.O., Trivandrum | 6. PBS, Irinjalakuda, Thrissur Dist. 680 121 |
| 2. PBS, State Agmark Grading Lab, Kollam | 7. PBS, Parappanangadi, Malappuram |
| 3. PBS, Kalarcode, Sanadanapuram P.O. | 8. PBS, Thikkodi, Kozhikode Dist. |
| 4. PBS, Kottayam | 9. PBS, State Seed Farm, Kasaragod-671121 |
| 5. PBS, Vyttila, Ernakulam Dist. | |

13. KERALA CENTRE FOR PEST MANAGEMENT

MANCOMPU, THEKKEKKARA P.O., ALAPPUZHA, Ph: 0477 2702683

The Pest Surveillance Unit under the Department of Agriculture at Mancompu in Alappuzha district is functioning with the aim of making farmers aware of need based plant protection activities. This unit undertakes pest and disease surveillance in paddy fields by adopting scientific techniques such as Light Trap Survey, Fixed Plot Survey and Rapid Rowing Survey.

14. REGIONAL AGRICULTURAL TECHNOLOGY TRAINING CENTRES (RATTC)

- | | |
|--|--|
| (1) Thiruvananthapuram, Kazhakuttom; (9400365101) | (2) Kottayam, Kozha; (04822 231 351) |
| (3) Ernakulam, Vyttila; (0484 2703094) | (4) Palakkad, Malappuzha (0491 2815912) |
| | (5) Kannur, Thaliparamba (0460 2203151). |

15. FARMERS TRAINING CENTRES (FTC)

- | | |
|---|---|
| 1. Farmers Training Centre Pandalam, Pathanamthitta. Phone: 04734-252244 | 2. Farmers Training Centre, Vengeri, Kozhikode, Phone 0495 2373582 |
|---|---|

16. ENGINEERING OFFICES

- | | |
|--|---|
| <p>1. Executive Engineer (Agri) Sanathanapuram P.O. Kalarkode, Alappuzha - 686 668 Ph: 0477 2266084</p> <p>2. Executive Engineer (Agri), Puthiyara P.O, Kozhikode - 673 004 Engineering Workshop- Ph: 0495 2723766</p> | <p>3. Research Engineer Research Testing & Training Centre Vellayani P.O, Thiruvananthapuram Ph: 0471 2381763</p> <p>4. Asst. Exe. Engineer, Agrl. Urban Wholesale Market Compound, Anayara P.O., Thiruvananthapuram Ph: 0471 2743820</p> |
|--|---|

17. AGRICULTURAL WHOLESALE MARKETS

1. Agricultural Urban Wholesale Market, Venpalavattom, Anayara P.O., Thiruvananthapuram-29, Phone : **0471 2558930**
2. Agricultural Rural Wholesale Market, Nedumangad P.O., Thiruvananthapuram, Phone : **0472 2813932**
3. Agricultural Urban Wholesale Market, Maradu, Nellur P.O. Ernakulam - 682 304, Phone : **0484 2701042**
4. Agricultural Rural Wholesale Market, Muvattupuzha, Ernakulam -686 673, Phone : **0484 2813200**
5. Agricultural Urban Wholesale Market, Kadampattuthazham, Vengeri, Kozhikode - 673 010, Phone : **0495 2376514**
6. Agricultural Rural Wholesale Market, Ammayi Palam, Sultan Bathery P.O., Wayanad-673592, Phone: **0493-6223192**

18. PADDY SEED PRODUCTION CENTRES

| Name | Phone | Name | Phone |
|------------------------------------|----------------|--------------------------------|----------------|
| State Seed Farm, Ulloor. | (0471 2530035) | State Seed Farm, Cherayinkizhu | (0470 264429) |
| State Seed Farm, Kottarakkara | (0474 2045235) | State Seed Farm, Kadakkal | (0474 2426666) |
| State Seed Farm, Adoor | (04734 227868) | State Seed Farm, Pullad | (0469 2661917) |
| State Seed farm, Arunoottimangalam | (0479 2358700) | State Seed Farm, Veeyapuram | (0479 2318496) |
| State Seed Farm, Kozha | (9496000934) | State Seed Farm, Valachira | (8281652915) |
| State Seed Farm, Karimannoor | (04862 263560) | State Seed Farm, Aluva | (9447465365) |
| State Seed Farm, Okkal | (997388326) | State Seed Farm, Mannuthy | (9496003619) |
| State Seed farm, Kodassery | (9496802620) | State Seed Farm, Nadavarambu | (9447828429) |
| State Seed Farm, Edathuruthy | (9496003618) | State Seed Farm, Pazhayannor | (0488 4226260) |
| State Seed Farm, Pananchery | (9496003620) | State Seed Farm, Kongadu | (0491 2102121) |
| State Seed Fram, Alathur | (04922223313) | State Seed Farm, Ananganadi | (04662243171) |
| State Seed Farm, Kunnanoor | (04912572224) | State Seed farm, Muthalamada | (04923212125) |
| State Seed Farm, Chokkad | (04931212144) | State Seed Fram, Thavannoor | (0494 2628061) |
| State Seed Farm, Anakayam | (04832848126) | State Seed Farm, Perambra | (04952512340) |
| State Seed Farm, Pudupadi | (04952512340) | State Seed Farm, Vengad | (0490 2308047) |
| State Seed Farm, Kankole | (0498 5280050) | State Seed Farm, Kasargod | (04994230510) |
| State Seed Farm, Pullor | (04672268808) | | |

INSTITUTIONS UNDER THE DEPARTMENT OF SOIL SURVEY & SOIL CONSERVATION

1. Institute of Watershed Development and Management Kerala Chadayamangalam, (IWDM-K)

IWDM-K started functioning during 2011 with the prime objective of enhancing watershed literacy to LSGD elected representatives, farmers, departmental officials, school and college students and stakeholders of Haritha Keralam Mission. The Institute has a full-fledged residential training campus with its own building located at Chadayamangalam in Kollam district. The Institute has been recognized as a Programme Study Centre (PSC) for the conduct of the One year Diploma in Watershed Management (DWM) offered by IGNOU in collaboration with DoLR, six months certificate course on Water harvesting and Management of IGNOU and a post graduate diploma course in Plantation Management (PGDPM).

2. Geomatics Lab, Headquarters

A well equipped Geomatics Lab, with all sophisticated equipments and modern up-to-date GIS softwares, providing the paraphernalia for the generation of an accurate and efficient digital soil information system is functioning at the Headquarters. The lab also imparts training in GIS to development department officials on request and is the study centre for the EDUSAT courses on GIS & Remote Sensing of IIRS, Dehradun.

3. State Soil Museum

State Soil Museum, a documentation and reference centre on the Soils of Kerala aimed to provide an overview on the heterogenous soils of the state is functioning at Parottukonam, Thiruvananthapuram. The museum displays a cross section of all the Benchmark Soils identified in the state along with the description on its occurrence, distribution, identifying characteristics, unique features etc., rock and mineral samples, watershed model, and models of Soil and water Conservation measures practiced in the state. The museum also include a Soil Information centre, a repository of information on soils and a Mini theatre for screening short films on soils and soil and water conservation

4. Soil Analytical Laboratories of the Department

The following Seven Soil Analytical laboratories are functioning under the Department

| Name of lab | Designation | Phone |
|--|-------------------------------------|------------------------|
| Central Soil Analytical Lab, Parottukonam, Thiruvananthapuram | Principal Soil Chemist | 0471- 2541776 (i/c) |
| Regional Soil Analytical Laboratory, Alappuzha | Senior Chemist | 0477- 2236294 |
| Regional Soil Analytical Lab, Palakkal, Thrissur | Senior Chemist | 0487-2327140 |
| Regional Soil Analytical Lab, Kozhikode | Senior Chemist | 0495- 2372040 |
| Hitech Soil Analytical Lab, Wayanad | Senior Chemist | 04936-207750 |
| Soil & Plant Health Clinic, Pathanamthitta | Assistant Director (Soil Survey) | 0468- 2323105 |
| Soil & Plant Health Clinic, Kasaragod | Assistant Director (Soil Survey) | 04994 -257450 |

5. REGIONAL OFFICES

| Designation & Office | Phone |
|--|--------------|
| Deputy Director, Soil Survey, Southern Region, Thiruvananthapuram | 0471 2468237 |
| Deputy Director, Soil Survey, Northern Region, Thrissur | 0487 2321296 |
| Joint Director, Kabini Project, Wayanad | 0493-6205732 |
| Deputy Director of Soil Conservation Institute for Watershed Development & Management-Kerala (IWDM-K), Chadayamangalam | 0474-2475051 |

6. DISTRICT OFFICES

| District | Designation | Name | Phone |
|--------------------|---|--------------------------|---------------|
| Thiruvananthapuram | District Soil Survey Officer | Smt. Omana P. | 0471-2469709 |
| | District Soil Conservation Officer | Sri. Pradeep Kumar | 0471-2732648 |
| | Assistant Director of Soil Conservation, Aruvikkara | Smt. AjayambikaDevi S.J. | 0471-2478030 |
| Kollam | District Soil Survey Officer | Smt. Anitha R | 0474-2767121 |
| | District Soil Conservation Officer | Sri. Ananda Bose D | 0474-2768816 |
| | Assistant Director of Soil Conservation Officer, Sasthamkotta | Sri. Shibu P.P. | 0476-2837080 |
| Pathanamthitta | District Soil Survey Officer | Smt. Sushama S. | 0468- 2323105 |
| | District Soil Conservation Officer Pathanamthitta | Sri. Harilal K. C. | 0468-2224070 |
| Alappuzha | District Soil Survey Officer | Smt. Indu Bhaskar | 0477-2236293 |
| | District Soil Conservation Officer | Smt.Manju S. | 0477-2254927 |
| Kottayam | District Soil Survey Officer | Smt. Baby George | 0481-2300978 |
| | District Soil Conservation Officer | Sri. V.T. Padmakumar | 0481-2568519 |
| Ernakulam | District Soil Survey Officer | Smt. Sheela P.Nair | 0484-2421509 |
| | District Soil Conservation Officer | Smt. Anuradha B.S. | 0484-2423301 |
| Idukki | District Soil Survey Officer | Smt. Baby George (i/c) | 0486-2228725 |
| | District Soil Conservation Officer | Sri. Arun Raj | 0486-2252650 |
| | Assistant Director of Soil Conservation, Kattappana | Sri.P.K.Muralidharan | 0486-8273322 |
| Thrissur | District Soil Survey Officer | Smt. Sreekala N.V. | 0487-2323965 |
| | District Soil Conservation Officer | Smt. Sindhu P.D. | 0487-2360426 |
| Palakkad | District Soil Survey Officer | Smt. Preethi P. (i/c) | 0491-2505455 |
| | District Soil Conservation Officer | Smt. Bindu Menon | 0491-2505860 |
| Malappuram | District Soil Survey Officer | Smt. Preethi P. | 0483-2739001 |
| | District Soil Conservation Officer | Smt. Mariamma K. George | 0483-2767872 |
| Wayanad | District Soil Survey Officer | Smt. Deepa C. B. | 04936-246330 |
| | District Soil Conservation Officer | Sri. P.U. Das | 04936-203756 |
| | Assistant Director, Soil Conservation, Vythiri | Smt. Asha Devadas | 04936-255227 |
| Kozhikode | Assistant Director, Soil Conservation, Mananthavady | Sri. Sathyan | 04935-246885 |
| | Assistant Director, Soil Conservation, Kaniyambatta | Smt. Niranjana N.S. | 04936-247430 |
| | Assistant Director, Soil Conservation, Karakkamala | Sri. ArunKumar S. | 04935-227565 |
| Kannur | Assistant Director, Soil Conservation, EH, Meenangadi | Sri. T. Usman | 04936-247160 |
| | District Soil Survey Officer | Smt. Baby Sujatha | 0495-2371060 |
| | District Soil Conservation Officer | Smt. Ayisha T.P. | 0495-2370790 |
| Kasaragod | District Soil Survey Officer | Smt. Shahila Rose | 0497-2712818 |
| | District Soil Conservation Officer | Sri. Abdussamad K P | 0497-2768260 |
| Kasaragod | District Soil Survey Officer | Smt. Minimol K P | 04994-257450 |
| | District Soil Conservation Officer | Sri. V. M. Ashok Kumar | 04994-256658 |

INSTITUTIONS UNDER DEPARTMENT OF ANIMAL HUSBANDRY

Directorate (1), DAHO Office (14), District Veterinary Centre (14), Veterinary Poly Clinics (48), Veterinary Hospitals (210), Veterinary Dispensaries (896), Mobile Veterinary Hospitals/Dispensaries (9), Motor Boat Veterinary Hospital (1), Mobile Farm Aid Units (10), Intensive Cattle Development Projects (9), Regional Artificial Insemination Centres (38), ICDP Sub Centres (1359), SLBP Head Quarters (1), SLBP Deputy Director's Office (3), Calf Feed Subsidy Scheme Office (5), Institute of Animal Health and Veterinary Biologicals (1), Chief Disease Investigation Office (1), Cattle Sterility Office (1), Avian Disease Diagnostic Lab (1), State Laboratory for Livestock Marine & Agri. Products (1), Livestock Management Training Centres (5), Central Veterinary Stores (3), Livestock Farms (4), Goat Farms (3), Pig breeding farms (1), Pig breeding units (5), Central Hatchery (1), Regional Poultry Farms (7), District Poultry farms (1), Duck Farm (1), Turkey farm (1), Rinderpest Eradication Scheme (1), RP Check posts (18), RP Mobile Units (2), RP Vigilance Units (6), Poultry Training Centre (1), Chick Sexing School (2)

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, PALODE

| Name of Vaccines available | Other Products |
|----------------------------------|---|
| 1. Ranikhet disease vaccine (F1) | |
| 2. Ranikhet disease vaccine (K) | 1. California mastitis reagent |
| 3. R2B | 2. Salmonella pullorum coloured antigen |
| 4. Fowl pox vaccine | 3. Mastitis Kit |
| 5. Anthrax spore vaccine | 4. Antibiotic sensitivity Kit |
| 6. Swine fever vaccine | 5. Diluents |
| 7. PPR | 6. Rose Bengal plate test antigen |
| 8. Duck plague vaccine | |
| 9. BQ | |
| 10. H S (OA) | |
| 11. Duck Pasteurella Vaccine | |

MAJOR DIAGNOSTIC LABORATORIES

1. Chief Disease Investigation Office, Palode, Thiruvananthapuram. - 0472-2840252
2. Avian Disease Diagnostic Laboratory, Thiruvalla.- 0469- 2700413
3. State Laboratory for Livestock, Marine and Agriculture Products (SLMAP) Maradu, Ekm- 0484-2703710
4. Rabies & Leptospirosis Diagnostic Laboratory, Dist. Vetry. Centre, Kollam- 0474-2795076

LIVESTOCK FARMS

- | | |
|---|--------------|
| 1. District Livestock Farm, Kudappanakkunnu, Thiruvananthapuram | 0471-2732962 |
| 2. Jersey Farm, Vithura, Thiruvananthapuram | 0472-2786126 |
| 3. Jersey Farm Extension Unit, Chettachal, Thiruvananthapuram | 0472-2185364 |
| 4. Regional Poultry Farm, Kudappanakkunnu, Thiruvananthapuram | 0471-2730804 |
| 5. Pig Breeding Unit, Parassala, Thiruvananthapuram. | 0471-2201680 |
| 6. Goat Farm, Parassala, Thiruvananthapuram | |
| 7. Goat Breeding Unit, Kudappanakkunnu, Thiruvananthapuram | |
| 8. Buffalo Breeding Farm, Kuriottumala, Kollam | 0475-2227485 |

9. Regional Poultry Farm, Kollam (Turkey Farm)
10. Goat Breeding Unit, Kuriottumala, Kollam
11. Duck Farm, Niranam, Pathanamthitta 0469-2711898
12. Central Hatchery, Chengannur, Alappuzha 0479-2452277
13. Pig Farm, Kappad, Kottayam
14. Regional Poultry Farm, Mannarcaud, Kottayam
15. District Poultry Farm, Kolani, Idukki 04862-221138
16. Regional Poultry Farm, Koovappady, Ernakulam 0484-2523559
17. Pig Breeding Unit, Kunnankulam, Thrissur 04885 210287
18. Goat Farm, Attapadi, Palakkad District. 9446149910
19. Regional Poultry Farm, Malampuzha, Palakkad 0491-2815206
20. District Poultry Farm, Athavanadu, Malappuram 0494-2615103
21. Regional Poultry Farm, Chathamangalam, Kozhikode 0495-2287481
22. Goat Farm, Komeri, Kannur 0490-2302307
23. Regional Poultry Farm, Mundayad, Kannur 0497-2721168

LIVESTOCK MANAGEMENT TRAINING CENTRES (LMTC)

1. LMTC, Kudappanakkunnu, Thiruvananthapuram 0471-2732918
2. LMTC, Aluva, Ernakulam 0484-2631355
3. LMTC, Mundayad, Kannur 0497-2723473
4. LMTC, Malampuzha, Palakkad 0491-2815454
5. LMTC, Thalayolaparambu 04829-234323
6. Poultry Training Institute, Central Hatchery Chengannur, Alappuzha 0479-2457778
7. LMTC, Kottiyam 0474-2535345

ANIMAL WELFARE DIVISION

The prevention of cruelty to Animals Act 1960 (59 to 60) and subsequent amendment rules are in force to prevent the infliction of unnecessary pain or suffering on animals. In 1904, the first SPCA was established at Thiruvananthapuram, followed by another at Kannur. as of now SPCAs have been registered under Societies registration Act in all 14 districts. Government of India has enacted an amendment to the PCA Act 1960-Establishment and Regulation of SPCAs Rules 2001. Every district has to have an SPCA as per the provision in the rule. A separate cell will be constituted at the Directorate of Animal Husbandry by redesignation to provide nodal function and to strengthen the animal welfare activities, for its effective monitoring and reporting of the schemes both by Government of India & Government of Kerala.

AVAILABILITY OF POULTRY LAYERS, BROILERS, HATCHING EGGS

THIRUVANANTHAPURAM

| | | |
|---------------------------------|---|--|
| 04712730804 | RPF Kudappanakunnu KSPDC Kudappanakunnu, Pettah | Day old layer chicks Eggs, chicks. |
| KOLLAM | Turkey Farm, Kollam KSPDC Kottiyam | Turkey poults and eggs. Eggs, chicks, ducklings. |
| ALAPPUZHA 04792452277 | Central Hatchery, Chengannur | Day-old layer chick, hatching and table eggs, poultry equipments. Quails & Quail eggs. |

| | | |
|---------------------------------------|--|---|
| PATHANAMTHITTA 0469 2711898 | Duck Farm, Niranam | Ducklings, hatching duck eggs. |
| KOTTAYAM | Regional Poultry Farm, Manarcaud | Layer, Day old chicks hatching and table eggs. |
| IDUKKI | District Poultry Farm, Kolani, Thodupuzha | Layer & Quail (for meat purpose) |
| ERNAKULAM 0484 -2523559 | District Poultry Farm, Koovapady | Day-old layer chicks and hatching eggs. |
| PALAKKAD 0491 2815206 | Regional Poultry farm, Malampuzha | Day-old layer chicks, table and hatching eggs. |
| MALAPPURAM 0494 2615103 | District Poultry Farm, Athavanad | Layer pullets. |
| KOZHIKODE | Regional Poultry Farm, Chathamangalam | Layer chicks, table eggs, hatching eggs Quails, Broiler Chicks and rabbits |
| KANNUR 0497 2721169 | Regional Poultry Farm, Mundayad | Day-old layer chicks, hatching and table eggs. |

Rabbits

| | | |
|---|--|---|
| Thiruvananthapuram 0471 2732962 | District Livestock Farm, Kudappandakkunnu,. | Breeds available: Angora, White Giant, New Zealand White, Soviet Chinchilla, Grey Giant |
|---|--|---|

ANIMAL HUSBANDRY DISTRICT-WISE IMPORTANT TELEPHONE NUMBERS

THIRUVANANTHAPURAM

| INSTITUTION | TELEPHONE | FAX | E MAIL ID |
|--------------------------|------------------|-------------|-------------------------|
| Director | 04712302283 | 04712302283 | directorah.ker@nic.in |
| Directorate Vikas Bhavan | 04712302683 | 04712301190 | |
| ADCP Hq | 04712556151 | 04712553291 | pcadcp@kerala.nic.in |
| CDIO Palode | 04722840252 | 04722840743 | cdiopalde@yahoo.co.in |
| IAH & VB Palode | 04722840262 | 04722840262 | |
| KLDB Pattom | 04712440920 | 04712440673 | kldb@vsnl.com |
| KSPDC Pettah | 04712374636 | 04712468585 | kepco@sancharnet.in |
| RAHC Aralumoodu | 04712222064 | | apoara@bsnl.co.in |
| RAHC Nedumangad | 04722804709 | | apondd@bsnl.co.in |
| RP Check Post Parassala | 04712129111 | | rpcpparassala@gmail.com |
| RPF Kudappanakunnu | 04712730804 | | rpfkpk@gmail.com |
| TRCMPU Pattom | 04712447109 | 04712446845 | milma@milma.com |

| INSTITUTION | TELEPHONE | INSTITUTION | TELEPHONE |
|-------------------------------|------------------|-----------------------------|------------------|
| Additional Director (SLBP) | 04712305645 | DAHO | 04712330736 |
| Additional Director (AH &Plg) | 04712302381 | Goat Farm Parassala | 04712223099 |
| DLF Kudappanakkunnu | 04712732962 | ICDP Tvm | 04712321080 |
| DVC | 04712302643 | Jersey Farm Vithura | 04722786126 |
| Epidemiology DD Office | 04712476962 | JFEU Chettachal | 04722185364 |
| KCMMF Tvm | 04712555981 | MFAU Paliyode | 04712250780 |
| KSVC Tvm | 04712435246 | Pig Breeding Unit Parassala | 04712201680 |
| LDC Tvm | 04712460837 | SADEC | 04713256288 |
| LMTC Kudappanakkunnu | 04712732918 | SLBP DD Office Tvm | 04712326557 |
| RAHC Attingal | 04702626499 | TRCMPU Ambalathara | 04712382562 |
| RAHC Parassala | 04712201686 | RAHC Tvm | 04712321090 |
| VD Amboori | 04712245918 | VD Pullampara | 04722828118 |
| VD Balaramapuram | 04712401036 | VD Thrikkannapuram | 04712351448 |
| VD Kadakampally | 04712740150 | VD Vakkom | 04702142194 |
| VD Kadinamkulam | 04712752756 | VD Vengode | 04712709040 |
| VD Kalamachal | 04722835111 | VD Venkulam | 04702661011 |
| VD Kallikkadu | 04712271132 | VD Vettoor | 04702157596 |
| VD Kunnathukal | 04712137205 | VD Vilappil | 04712270172 |
| VD Kuttichal | 04722177196 | VH Attingal | 04702628664 |
| VD Kuttiyani | 04722585700 | VH Malayinkeezh | 04712279650 |
| VD Maranallur | 04712297516 | VH Neyyattinkara | 04712226409 |
| VD Ottasekharamangalam | 04712257879 | VH Thakaraparambu | 04702652161 |
| VD Peringamala | 04722182352 | VH Thiruvallam | 04712382253 |
| Veterinarians' Building | 04712321258 | VH Vamanapuram | 04722871688 |

| KOLLAM | | | |
|--------------------|-------------|--------------------|-------------|
| DAHO | 04742793464 | ADCP | 04743255460 |
| DVC Kollam | 04742795076 | VH Ayoor | 04752294646 |
| BBF Kuriyottumala | 04752227485 | VH Kunnathur | 04762857977 |
| ICDP Kottarakkara | 04742454123 | VH Chathannor | 04742596979 |
| RAIC Kottarakkara | 04742459611 | VH Cheruvakkal | 04742670780 |
| RAIC Kottiyam | 04742535345 | VH Kalluvathukkal | 04742577643 |
| RAIC Pathanapuram | 04752353406 | VH Kottarakara | 04742450892 |
| RAIC Sasthamcottah | 04762837150 | VH Kulathupuzha, | 04752317062 |
| RPF Kollam | 04742799222 | VH Kundara | 04742546820 |
| VD Eravipuram | 04742764577 | VH Manapally | 04762865378 |
| VD Alappad | 04762827300 | VH Oachira | 04762697310 |
| VD Arinallur | 04762874293 | VH Pathanapuram | 04752035600 |
| VD Chadayamangalam | 04742477410 | VH Punthalathazham | 04742719867 |
| VD Chengamanad | 04742696065 | VH Sakthikulangara | 04742772289 |
| VD East Kallada | 04762084665 | VH Thevalapuram, | 04742067838 |
| VD Ezhukone | 04742065830 | VH Anchal | 04752270160 |
| VD Inchakkad | 04742045523 | VH Anchalumoodu | 04742551093 |
| VD Kaduvathode | 04752397570 | VH Chavara | 04762681001 |
| VD Kanjavely | 04742706961 | VPC Paravur | 04742518080 |
| VD Kannanellur | 04742501140 | VPC Karunagapally | 04762660713 |
| VD Kannettil | 04762062800 | VD Parakkadavu | 04762854313 |
| VD Karavur | 04752038100 | VD Pattazhi | 04752039195 |
| VD Kulakkada | 04742167725 | VD Poruvazhy | 04762821618 |

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| VD Kulasekharapuram | 04762625069 | VD Punukkannur | 04742520562 |
| VD Kummil | 04762447114 | VD Puthenkulam | 04742517203 |
| VD Kuzhimathikadu | 04742026928 | VD Roaduvila | 04762077939 |
| VD Mangad | 04742713347 | VD Sasthamcottah | 04762837050 |
| VD Maruthamanpally | 04742049853 | VD SooranadSouth | 04762854400 |
| VD Mulavana | 04742520700 | VD Thekkumbhagom | 04762883979 |
| VD Munroe Island | 04742543414 | VD Thenmala | 04752336319 |
| VD Nedumpana | 04742561115 | VD Ummannur | 04742071510 |
| VD Neendakara | 04762684644 | VD Vayakkal | 04742472710 |
| VD Panavelly | 04742470543 | VD Veliyam | 04742465599 |
| VD Panmana | 04762670356 | VD Venchempu | 04752252732 |
| VD Yeroor | 04752278718 | VD West Kallada | 04762084665 |

PATHANAMTHITTA

| | | | |
|-----------------------|-------------|---------------------|-------------|
| DAHO | 04682322762 | 04682322762 | |
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| ADDL Thiruvalla | 04692700413 | | |
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| Duck Farm Niranam | 04692711898 | ADCP | 04682270206 |
| DVC | 04682270908 | RAIC Pathanamthitta | 04682325693 |
| ICDP Pathanamthitta | 04682220418 | RAIC Mallappally | 04692683123 |
| VPC Adoor | 04734223445 | RAIC Ranni | 04735224550 |
| VPC Thiruvalla | 04692607354 | VH Kozhencherry | 04682261448 |
| VPC Ranni | 04735221358 | VH Mallappally | 04692680315 |
| VH Ayroor | 04735230470 | VH Malayalappuzha | 04682303206 |
| VH Kalanjoor | 04734273046 | VH Pandalam | 04734256405 |
| VH Kodumon | 04734280190 | VH Pulikkeezhu | 04692717812 |
| VD Anickad | 04692686459 | VH Pullad | 04692662380 |
| VD Chathanthara | 04735263300 | VH Pallickal | 04734289666 |
| VD Cheneerkkara | 04682257849 | VD Kuttoor | 04692615853 |
| VD Chethomkara | 04735223323 | VD Kaviyur | 04692618361 |
| VD Elanthur | 04682263462 | VD Mannarakulanji | 04682303179 |
| VD Erathu | 04734223439 | VD Nedumpram | 04692642651 |
| VD Ezhamkulam | 04734243600 | VD Naranganam | 04734261442 |
| VD Elamannoor | 04734247826 | VD Othara | 04692657966 |
| VD Kaipattur | 04682351340 | VD Peringara | 04692737363 |
| VD Kallooppa | 04692678728 | VD Pramadam | 04682336995 |
| VD Kidangannur | 04682260252 | VD Puramattom | 04692651809 |
| VD Kottanadu | 04692775857 | VD Ranni Angadi | 04735201983 |
| VD Kottangal | 04692799601 | VD Ranni Perinadu | 04735242011 |
| VD Kulanada | 04734261149 | VD Thattayil | 04734223527 |
| VD Kuriannur | 04692672857 | VD Thelliyur | 04692655759 |
| VD Vayala | 04734244900 | VD Thumpamon | 04734209858 |

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| CFSP Haripad | 04792442949 | DVC | 04772252285 |
| CFSP Mavelikara | 04792302262 | Hatchery Chengannur | 04792452277 |
| MBVH Alappuzha | 04772252285 | RAIC Cherthala | 04782817801 |
| MFAU Pattanakkad | 04782592249 | RAIC Mavelikkara | 04792302262 |

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|-----------------------|-------------|----------------------|-------------|
| VD Ala | 04792367253 | VD Kavalam | 04772747759 |
| VD Anaprambal | 04772122828 | VD Kodamthuruth | 04782561802 |
| VD Arattupuzha | 04792488900 | VD Kuthiyathode | 04782561803 |
| VD Aroor | 04782872052 | VD Mararikulam South | 04772249125 |
| VD Aryad | 04772125952 | VD Muttar | 04772122556 |
| VD Ayaparambu | 04792319545 | VD Neelamperoor | 04772174141 |
| VD Budhanur | 04792466388 | VD Pallippad | 04792487712 |
| VD Chembumpuram | 04772171298 | VD Pandanad | 04792466386 |
| VD Chennithala | 04793214657 | VD Pathiyoor | 04792437030 |
| VD Cheppad | 04792401300 | VD Pattoor | 04792374002 |
| VD Cheriyana | 04792353122 | VD Perumbalam | 04782512045 |
| VD Cherthala | 04782823590 | VD Pulincunnu | 04772702074 |
| VD Chettikulangra | 04792346232 | VD Puliyo | 04792466387 |
| VD Chingoli | 04792487712 | VD Purakkad | 04772127100 |
| VD Chunakkara | 04792379440 | VD Ramankary | 04772703607 |
| VD Devikulangara | 04762697330 | VD Thakazhi | 04772275888 |
| VD Edathua | 04772210472 | VD Thannermukkom | 04782181644 |
| VD Ezhupunna | 04782187420 | VD Thazhakkara | 04792358472 |
| VD Kadakkapally | 04782181889 | VD Thuravoor | 04782618262 |
| VD Kainakary | 04772171607 | VD Vallikunnam | 04792338644 |
| VD Kandallor | 04792431201 | VD Vayalar | 04782595125 |
| VD Kanichukulangara | 04782186276 | VD Veeyapuram | 04792318400 |
| VD Karuvatta | 04792491700 | VD Venmony | 04772270495 |
| VH Thycattusery | 04782532326 | VH Mulakkuzha | 04792468998 |
| VH Ambalappuzha South | 04772270495 | VH Muthukulam | 04792474225 |
| VH Kalavoor | 04772290098 | VH Nooranad | 04792389397 |
| VH Karthikappally | 04792487912 | VH Otappunna | 04782552597 |
| VH Kattanam | 04792331621 | VH Panavally | 04782522091 |
| VH Kayippuram | 04782583328 | VH Pattanakad | 04782595123 |
| VH Kidangara | 04772753733 | VH Punnapra South | 04772288458 |
| VH Krishnapuram | 04792437679 | VH Thamarakkulam | 04792372225 |
| VH Mannar | 04792313811 | VH Vathikulam | 04792327292 |
| VPC Chengannur | 04792450558 | VPC Kayamkulam | 04792442949 |
| VPC Cherthala | 04782816584 | VPC Mankombu | 04772615105 |
| VPC Haripad | 04792418100 | VPC Mavelikkara | 04792340325 |

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| DVC | 04812564623 | ADCP | 04812309770 |
| MVH | 04812568768 | RAIC Vaikom | 04829231267 |
| RPF Manarkadu | 04812373710 | LMTc Thalayolaparambu | 04829234323 |
| RAIC Kanjirappally | 04828202545 | VD Memmury | 04829245090 |
| VD Anicad | 04812551289 | VD Mulakulam | 04829253113 |
| VD Arpookkara | 04812591842 | VD Mundakayam | 04828274518 |
| VD Athirampuzha | 04812594388 | VD Nattakam | 04812432705 |
| VD Ayarkunnam | 04812546123 | VD Neendoor | 04812711477 |
| VD Chengalam | 04812526110 | VD Paika | 04822226633 |
| VD Chennad | 04822279016 | VD Paippad | 04812445669 |
| VD Kadanad | 04822248013 | VD Panachikadu | 04812331810 |
| VD Kallara | 04829268872 | VD Parathanam | 04828287014 |
| VD Kanam | 04812455300 | VD Parathodu | 04828270110 |

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|------------------|-------------|--------------------|-------------|
| VD Koorai | 04828265675 | VD Pothempuzha | 04828246240 |
| VD Kooropada | 04812701965 | VD Puthuvely | 04822245833 |
| VD Kozhuvanal | 04822268081 | VD T V Puram | 04829211852 |
| VD Kumarakom | 04812526114 | VD Teekoy | 04822280849 |
| VD Kumaranalloor | 04812310156 | VD Thalanadu | 04822280848 |
| VD Kurichi | 04812402602 | VD Thekkethukavala | 04828228060 |
| VD Kurichithanam | 04822250638 | VD Thidanadu | 04822272068 |
| VD Madappally | 04812475632 | VD Thodanal | 04822268350 |
| VD Marangoly | 04829264315 | VD Thottapally | 04812703040 |
| VD Mattakara | 04812546505 | VD Thrikodithanam | 04812445648 |
| VD Meenadam | 04812556889 | VD Thuruthy | 04812321006 |
| VD Melampara | 04822237851 | VD Ullanad | 04822248023 |
| VD Melukavu | 04822220608 | VD Uzhavoor | 04822243528 |

IDUKKI

| | | | |
|------------------------|-------------|-------------------|-------------|
| DAHO | 04862222894 | DVC Thodupuzha | 04862221545 |
| ADCP | 04862325992 | DPF Kolani | 04862221138 |
| Check Post Bodimettu | 04868220363 | Check Post Kumily | 04869222623 |
| Check Post Cumbammettu | 04868279731 | VD Kunchithanny | 04865266357 |
| KLDB Mattupetty | 04865242202 | VD Marayoor | 04865252939 |
| KLDB Training Centre | 04865242201 | VD Puthuppariyam | 04862210992 |
| MFAU Adimaly | 04864217053 | VD Rajakkad | 04868241727 |
| VD Cumbammettu | 04868223559 | VD Santhanpara | 04868247676 |
| VD Kanjikuzhy | 04862238192 | VD Thankamony | 04862226336 |
| VD Keezhanthoor | 04865252978 | VD Vellathooval | 04864277061 |
| VD Kodikulam | 04862265205 | VH Muttom | 04862257470 |

ERNAKULAM

| | | | |
|--------------------|-------------|---------------------|-------------|
| DAHO | 04842360648 | Accountant General | 4842402163 |
| ADCP | 04842627495 | DVC | 4842351264 |
| Clinical Lab | 04842351264 | ICDP Aluva | 04842624441 |
| CSO Aluva | 04842624441 | KLDB Muvattupuzha | 04852812763 |
| MPI Koothattukulam | 04852252365 | RAIC Aluva | 04842624441 |
| MFAU Kuruppampady | 04842541078 | RPF Koovappady | 04842523559 |
| MVH Ernakulam | 04842351264 | SLM & AP Maradu Ekm | 04842703710 |
| VD Arakuzha | 04852254064 | VD Manjappetty | 04842590630 |
| VD Aryankavu | 04842746717 | VD Marady | 04852837651 |
| VD Avoly | 04852850779 | VD Nayarambalam | 04842276173 |
| VD Chellanam | 04842249045 | VD Nellad | 04842767332 |
| VD Cheranelloor | 04842430563 | VD Njarakkal | 04842499622 |
| VD Cheruvatoor | 04852549216 | VD Odakkaly | 04842650368 |
| VD Choornikkara | 04842628024 | VD Okkal | 04842698105 |
| VD Edakkattuvayal | 04842738198 | VD Ooramana | 04852870472 |
| VD Edakkunnu | 04842450701 | VD Paingotoor | 04852563370 |
| VD Edavanakkad | 04842507111 | VD Panangad | 04842701440 |
| VD Elamkunnappuzha | 04842499626 | VD Pothanikad | 04842564124 |
| VD Ezhikkara | 04842251087 | VD Thiruvankulam | 04842786840 |
| VD Kodanad | 04842642818 | VD Thrikkakara | 04842427763 |
| VD Kokkunnu | 04842614020 | VD Thuravoor | 04842617921 |
| VD Kombanad | 04842847494 | VD Thuruthy | 04842643011 |
| VD Kunnukara | 04842478757 | VD Varapetty | 04852285147 |
| VD Kuttampuzha | 04852588657 | VD Veliyathunad | 04842672830 |

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| VD Kuzhipilly | 04842507151 | VD Vennikulam | 04842273788 |
| VD Malayatoor | 04842468673 | VH Nedumbassery | 04842477246 |
| VAS Lakshadweep Admn Cochin | 04842666374 | VH Perumbavoor | 04842595846 |
| VH Chendamangalam | 04842519792 | VH Piravom | 04852242743 |
| VH Eloor | 04842546410 | VH Puthencruz | 04842734196 |
| VH Kalady | 04842698082 | VH Valakam | 04852208714 |
| VH Kizhakkambalam | 04842680264 | VH Valayanchirangara | 04842655527 |
| VH Kolenchery | 04842764553 | VPC Mattanchery | 04842210855 |
| VH Koothattukulam | 04852250362 | VPC Mulanthuruthy | 04842742234 |
| VH Kothamangalam | 04852826933 | VPC North Parur | 04842441676 |
| VH Kottappady | 04852842195 | Cochin Pet Hospital | 04844032555 |

THRISSUR

| | | | |
|------------------|------------|--------------------|------------|
| DAHO | 4872361216 | ADCP | 4873256144 |
| DVC | 4872440232 | Museum & Zoo | 4872333056 |
| SLBP | 4872360225 | RSB Chalakudy | 4802701026 |
| ICDP Mala | 4802898422 | RAHC Chalakudy | 4802709067 |
| RAHC Cherpu | 4872340195 | Pig Breeding Unit | 4885210287 |
| RAHC Kodungallur | 4802803440 | VPC Kodungallur | 4802812430 |
| VPC Anthikad | 4872635368 | VPC Kunnankulam | 4885210287 |
| VPC Aloor | 4802726908 | VPC Mala | 4802898244 |
| VPC Chalakudy | 4802705547 | VPC Wadakkanchery | 4884240316 |
| VPC Chavakadu | 4872503630 | VH Mathilakam | 4802641576 |
| VPC Irinjalakuda | 4872832729 | VH Mundur | 4872211915 |
| VH Amballur | 4802744092 | VH Ollur | 4872335134 |
| VH Avinissery | 4802342797 | VH Pananchery | 4872282289 |
| VH Chelakkara | 4884250777 | VH Thiroor | 4872208282 |
| VH Cherpu | 4872345254 | VH Valappadu | 4872400600 |
| VH Kaipamangalam | 4802844274 | VH Vaniyampara | 4872687047 |
| VH Mannamangalam | 4872688739 | VD Machad | 4884395050 |
| VH Kodakara | 4802804922 | VD Mambra | 4802736585 |
| VH Kumbidy | 4802773289 | VD Mayannur | 4884285606 |
| VH Vellangallur | 4802863071 | VD Melur | 4802737571 |
| VD Arimbur | 4872300095 | VD Mullurkara | 4884271468 |
| VD Ashtamichira | 4802897856 | VD Panjaal | 4884274174 |
| VD Athirapilly | 4802769857 | VD Parappukkara | 4802790696 |
| VD Avinissery | 4872352074 | VD Pariyaram | 4802798312 |
| VD Ayyanthole | 4872369058 | VD Perumbilavu | 4885289990 |
| VD Chirakkakode | 4872693559 | VD Pudukkadu | 4802790957 |
| VD Edakulam | 4872205494 | VD Pulacode | 4884250188 |
| VD Engandiyur | 4872292304 | VD Puthur | 4872359773 |
| VD Eriyad | 4802815599 | VD Thalikulam | 4872392316 |
| VD Kakkulissery | 4802776108 | VD Thanikudam | 4872695144 |
| VD Karalam | 4872887356 | VD Thanniyam | 4872275317 |
| VD Karuvannur | 4802887144 | VD Valoor | 4802736586 |
| VD Kattilapoovam | 4872693602 | VD Vatanappally | 4872600633 |
| VD Kattur | 4802874289 | VD Vellikkulangara | 4802742117 |
| VD Kilanuur | 4872205493 | VD Velur | 4885285950 |
| VD Koratty | 4802735666 | VD Venkidangu | 4872265020 |
| VD Kuttur | 4872382325 | VD Vylathur | 4872680676 |
| VD Kundur | 4802776054 | VD Vynthala | 4802773262 |

PALAKKAD

| | | | |
|---------------------------|-------------|------------------------|-------------|
| DAHO | 4912520297 | KLDB Dhoni | 4912555127 |
| DVC | 4912534220 | RAIC Palakkad | 4912556126 |
| JD (R E) | 4912527358 | LMTc Malampuzha | 4912815454 |
| CFSS | 4912500291 | Goat Farm Attapadi | 4924209956 |
| Check Post Chemanampathy | 4923277377 | Check Post Gopalapuram | 4923273102 |
| Check Post Muthalamada | 4923275053 | Check Post Kozhippara | 4923235310 |
| Check Post Meenakshipuram | 4923232175 | Check Post Walayar | 4912803450 |
| VPC Alathur | 4922285184 | RPF Malampuzha | 4912815206 |
| VPC Mannarakad | 4924224162 | RSB Dhoni | 4912558547 |
| VH Sreekrishnapuram | 4662208710 | VH Kumaranellur | 4662276526 |
| VD Elavanchery | 04923266929 | VH Pattambi | 04662201154 |
| VD Malampuzha | 04912508656 | VD Vadavannur | 04922215334 |

MALAPPURAM

| | | | |
|------------------------------|-------------|------------------------|-------------|
| DAHO | 04832734917 | ADCP | 04833096701 |
| District Clinical Laboratory | 04832734815 | MFAU Wandoor | 04931247634 |
| DPF Athavanad | 04942615103 | Check Post Vazhikadavu | 04931274267 |
| DVC | 04832734815 | RAIC Athavanad | 04942615103 |
| MFAU Kottakkal | 04832102727 | RAIC Nilambur | 04931225247 |
| VD Aliparambu | 04933206874 | VD Kalikavu | 04931257065 |
| VD Amarambalam | 04931261980 | VD Kallirattikkal | 04832845863 |
| VD Areacode | 04832850863 | VD Karuvarakundu | 04931280606 |
| VD Athavanad | 04942615103 | VD Kolathur | 04933202388 |
| VD Chaliyar | 04931206768 | VD Moothedam | 04931274261 |
| VD Cherakkaparambu | 04933255120 | VD Parambilpeedika | 04942400190 |
| VD Chokkad | 04931215646 | VD Pookulathur | 04832821330 |
| VD Edakkara | 04931274470 | VD Thenjipalam | 04942406080 |
| VD Edavanna | 04832700292 | VD Thuvur | 04931284606 |
| VD Elamkulam | 04933208003 | VD Uppada | 04931241943 |
| VD Irimbiam | 04942621318 | VD Urungattiri | 04832117155 |
| VD Kadannamanna | 04933220818 | VD Vattamkulam | 04942689902 |
| VD Kalady | 04942685275 | VD Vazhayur | 04832833684 |
| VH Kavannur | 04832131245 | VD Vettathur | 04933247200 |
| VH Kondotty | 04832104750 | VH Perumbadappu | 04942107477 |
| VH Kottakkal | 04832102727 | VH Valanchery | 04942638751 |
| VH Melattur | 04933277342 | VH Vazhikadavu | 04931274267 |
| VH Nilambur | 04931225247 | VH Wandoor | 04931247634 |
| VPC Eswaramangalam | 04942668321 | VPC Perinthalmanna | 04933225313 |
| VPC Manjeri | 04832100760 | VPC Tirur | 04942421725 |

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| ICDP Kozhikode | 04952762456 | RCL | 04952368349 |
| CVS | 04952723408 | CFSS | 04952768155 |
| MVD | 04952368349 | VH Koduvally | 04952448370 |
| VPC Perambra | 04962616401 | VH Kunnamangalam | 04952801209 |
| VPC Vadakara | 04962528552 | VH Kunnummal | 04962624285 |

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|-------------------|-------------|--------------------|-------------|
| VH Balussery | 04962238636 | VH Koyilandy | 04962506384 |
| VH Kavilumpara | 04962565885 | VH Meppayur | 04952510090 |
| VH Kodenchery | 04952236699 | VH Puduppady | 04952510090 |
| VD Anakkampoyil | 04962506384 | VH Tuneri | 04962557555 |
| VD Atholi | 04962674974 | VD Kuruvattoor | 04962552055 |
| VD Ayanchery | 04962593628 | VD Makkada | 04952268380 |
| VD Ayanikkad | 04962606988 | VD Maniyur | 04962230270 |
| VD Chathamangalam | 04952287520 | VD Mankavu | 04952331131 |
| VD Chelannur | 04952552055 | VD Maruthomkara | 04962667206 |
| VD Chemanchery | 04962688992 | VD Mavoor | 04952883975 |
| VD Chengottukavu | 04962620446 | VD Meladi | 04962606999 |
| VD Kakkur | 04952552430 | VD Mundotukalagara | 04952207599 |
| VD Kattipara | 04952270822 | VD Olavanna | 04952431770 |
| VD Kayanna | 04952242178 | VD Ramanattukara | 04952441770 |
| VD Kizhakothe | 04952517950 | VD Thamarassery | 04952225993 |
| VD Koorachundu | 04952661874 | VD Thiruvambady | 04952506384 |
| VD Kunnakody | 04962706785 | VD Thodannur | 04962254829 |
| VD Villiapally | 04962254829 | VD Unnikulam | 04962238636 |

WAYANAD

| | | |
|-----------------|-------------|--------------------------|
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| DVC | 04936202729 | cvodvckalpetta@gmail.com |
| ADCP | 04936324439 | adcpwayanad@gmail.com |
| RAIC Meenangadi | 04936272939 | raicmeenangadi@gmail.com |

KANNUR

| | | | |
|--------------------|-------------|--------------------|-------------|
| DAHO | 04972700267 | ADCP | 04972702952 |
| DVC | 04972700184 | RAIC Iritty | 04902491145 |
| Goat Farm Kommeri | 04902302307 | RSB Kannur | 04972780144 |
| LMTC Mundayad | 04972763473 | SLBP Kannur | 04972711588 |
| RPF Mundayad | 04972721168 | VPC Iritty | 04902493280 |
| VPC Chempanthotti | 04602267616 | VH Alakode | 04602256222 |
| VPC Payyannur | 04985206310 | VH Cheruvanchery | 04902304388 |
| VPC Thalassery | 04902341060 | VH Kuthuparamba | 04902366615 |
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| VD Arayalinkeezhil | 04902400148 | VH Mavilayi | 04972828092 |
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| VD Chittariparamba | 04902301706 | VD Kuttiyeri | 04602201706 |
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| VD Kandonthar | 04985279291 | VD Parassinikadavu | 04972784487 |
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| VD Kommeri | 04902515153 | VD Valapattanam | 04972851562 |
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| VH Kanhangad | 04672200335 | VD Balanthode | 04672228015 |
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| CBS Thumburmuzhy | 04802746065 | Guest House | 04872315825 |
| Dairy Plant | 04872370848 | Hatchery | 04872370117 |
| Dairy Science College | 04872371759 | Instrumentation Centre | 04872374462 |
| Ladies Hostel Annexe | 04872372416 | KFRI Director Peechi | 04872265236 |
| Ladies Hostel Main | 04872371608 | Krishi Vigyana Kendra | 04872375855 |
| Ladies Hostel New | 04872374462 | Poultry Farm | 04872370337 |
| Livestock Farm Mannuthy | 04872370302 | Poultry Science | 04872371178 |
| Meat Technology Unit | 04872370956 | NCC Mannuthy | 04872370813 |
| PG Hostel Men | 04872371585 | UG Hostel Men Annexe | 04872371071 |
| Pig Farm | 04872370378 | UG Hostel Men Mains | 04872370045 |
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14. The Deputy Director, Dairy Development Department, Kasargod, Civil Station, First floor, F Block, Vidyanagar P.O., Kasargod – 671 123 Ph: 0499 - 4255475

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MALAPPURAM

1. DESU, **Vengara**, Block Panchayat Office,
Vengara, Kooriyad P.O, Malappuram 0494 2450979 dairyvengara@gmail.com
2. DESU, **Manjeri** Mini Civil Station, Manjeri P.O.,
Malappuram - 676121 0483-2760082 desumanjeri@gmail.com
3. DESU, **Perinthalmanna**, Mini Civil Station,
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4. DESU, **Nilambur**, Near Milk Chilling Plant,
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6. DESU, **Wandoor**, Block Panchayat Office,
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7. DESU, **Mankada**, Ramapuram P.O,
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8. DESU, **Ponnani**, Block Panchayat Compound,
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11. DESU, **Thanoor**, Block Panchayat Office,
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12. DESU, **Perumpadappu**, Block Panchayat Office,
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Malappuram - 679 585 0494-2676050 desuperumpadappu@gmail.com
13. DESU, **Kuttippuram**, Block Panchayat Office,
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Malappuram 0483 2734944 desumalappuram@gmail.com
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KOZHIKODE

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Civil Station, Kozhikode - 673 020 495 2371254 deokozhikode20@gmail.com
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Badagara P.O., Kozhikode 496 2522521 desuvatakara@gmail.com
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KANNUR

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2. DESU, **Payyannur**, Near Sub Treasury,
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3. DESU, **Thalassery**, Civil Station, Thalassery,
Kannur - 670 101 0490 2342859 desuthalassery@gmail.com

| | | |
|--|--------------|----------------------------|
| 4. DESU, Irikkur , c/o Block Office, Irikkur P.O., Kannur - 670 599 | 0460 2258959 | desuirikkur@gmail.com |
| 5. DESU, Edakkad , Kizhakkekara, Thazhay Chowa P.O., Kannur - 670 016 | ----- | desuedakkad@gmail.com |
| 6. DESU, Thaliparambu , Block Panchayath Office, Karimpam P.O., Kannur - 670 142 | 0460 2208559 | desuthaliparamba@gmail.com |
| 7. DESU, Peravoor , Peravoor Block Office, Peravoor P.O., Kannur Dist. - 670 763 | 0490 2445859 | desuperavoor@gmail.com |
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| | | |
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| 4. DESU, Manjeswaram , Block Office Bldg., Manjeswaram P.O., Kasaragod. | 4998 275051 | desumjr@gmail.com |
| 5. DESU, Karadka Block, MulleriaP Kasaragod Pin-671543 | 9496200776 | desukrdk@gmail.com |
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AGRICULTURE

DEPARTMENT OF AGRICULTURE

The Department of Agriculture in its present set up is functioning from 1987 for the overall development of agriculture sector in the state.

VISION

The vision of the Department is to attain self sufficiency in food production through enhanced agricultural productivity of agricultural commodities so as to make agriculture a sustainable and viable vocation providing livelihood support.

MISSION

The mission of the Department is as follows:

- Safeguard the interest of farmers, ensure food and nutritional security and support Kerala's agricultural economy.
- Achieve targeted growth rate for agriculture sector by successful implementation of various schemes.
- Protect farmers from risk through risk management cover and from unfair and deceptive business practices.
- Set up investment in agriculture.
- Ensure the safety of agricultural products by ensuring supply of quality agricultural inputs.
- Conserve and protect the state's agricultural and natural resources by promoting environmentally safe agricultural practices.

FUNCTIONS

The major functions of the Department of Agriculture are:

- Planning, implementation and monitoring of the state and central scheme for agriculture development, taking Grama Panchayat as the basic unit.
- Agricultural extension and transfer of technology and giving recognition to farmers for their outstanding efforts in producing maximum output from unit area.
- Production and distribution of improved seed and planting materials and organizing a sustainable seed programme and quality control of inputs like seeds, fertilizers and pesticides.
- Promotion of value addition, mechanization and eco friendly practices in agriculture.
- Providing market infrastructure through liaison with national organizations in the field of agriculture and also with different development agencies, Commodity Boards etc.
- Assessment of crop situation from time to time and reporting the crop losses due to natural calamities and disbursement of assistance and providing crop insurance cover to farmers.
- To take adequate steps for the farmers to secure remunerative prices for their produce.
- To evolve a cropping strategy inclusive of multiple cropping and mixed farming for maximum and sustainable use of natural resources aimed at integrated development of farm holdings.
- Ensuring the timely availability of the relevant technology, inputs and credit to farmers and organizing community efforts among them for agricultural operations.

The above functions are mainly catered through 1076 Krishi Bhavans at panchayath level and 152 Assistant Director of Agriculture offices at block level and also through the 14 Principal Agricultural Offices at district level. In addition to the above the training centres, quality control laboratories, soil testing laboratories, Agmark lab, district farms and seed farms etc also supports the activities of the Department.

MAJOR INSTITUTIONS UNDER AGRICULTURE SECTOR

FARM INFORMATION BUREAU

Farm Information Bureau is the one and only nodal agency doing yeoman service in the field of agricultural extension right from 1969 to provide active and complete information support to accelerate the extension and developmental activities of the Departments of Agriculture, Animal Husbandry and Dairy Development. The Bureau takes up the propaganda works of these departments to help the farming community in availing various benefits offered by the Government in time. The Bureau works as an effective link between research stations and farming community by disseminating right scientific knowledge to the right person at the right time and providing feed back to research community.

Head Office of Farm Information Bureau is at Kowdiar, Thiruvananthapuram with two regional offices at Ernakulam and Kozhikode. The Technical Officers of FIB are enlisted below.

| Name & Designation | Phone (Off) | Residence | Mobile |
|--|-----------------------------------|-----------|------------|
| SUMA V. JOINT DIRECTOR OF AGRICULTURE PRINCIPAL INFORMATION OFFICER Email: fibtvm@gmail.com KERALA KARSHAKAN DIVISION | 0471-2318186 Fax: 0471-2318186 | | 9747478616 |
| G.S. Unnikrishnan Nair (Deputy Director, Agriculture) Editor, Kerala Karshakan Email: editorkkfib@gmail.com | 2314358 | | 9446175751 |
| Asst. Editors | | | |
| C.S. Anitha (Agricultural Officer) | 2314358 | 2435494 | 9446058336 |
| Ashok P.I. (Agricultural Officer) | 2314358 | | 9447657417 |
| Kerala Karshakan English e-journal | | | |
| G.S. Unnikrishnan Editor | 0471-2314358 | | 9446175751 |
| C.S. Anitha Asst. Editor | 0471- 2314358 | 2435494 | 9446058336 |
| MEDIA LIAISON DIVISION Email: mediadivisionfib@gmail.com | | | |
| Dr. T.V. Rajendralal Media Liaison Officer (Deputy Director (Agri)) | 2317314 | | 9496100869 |
| Vishnu S.P. Agricultural Officer (Media Liaison) | 2317314 | | 9744444279 |
| Dr. P. Selva Kumar Campaign Officer (Asst. Director (A.H.)) | 2317314 | 2384888 | 9447720794 |
| Dr. Suja Mary Koshy Asst. Director (AH) (Editor, Farm News) | 2317314 | | 9447500788 |

Njattuvela - Radio

Ashok P.I. 9447657417
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Publication Division

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Publication Officer (Asst. Director, Dairy Dept.) 2317314 9495554944
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Information Technology Division

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Video Production Division

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Establishment & Accounts Division

Dr. Geetha Ram T. 2314358 9747968268
Information Officer (Assistant Director (AH))

Accounts Officer

Manu S.P. 2317314 9895858515
Section Officer, Secretariat

Regional Office, Seaport -Airport Road, Kakkanad, Ernakulam

Rose Mary Joice
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Regional Office, Vengeri P.O., Kozhikode - 10

Anitha Paul C. 0495-2370368 8606539927
Assistant Director of Agriculture
E-Mail: adafib@gmail.com

Activities of Farm Information Bureau

1. KERALA KARSHAKAN**email: editorkkfib@gmail.com**

Kerala Karshakan, magazine of Farm Information Bureau is the most effective and largest circulated monthly farm journal in Kerala. It is being published regularly since 1954, still holding prime role amidst similar ventures and turned to be farmers' pet. The journal dishes out highly valuable information on various aspects of farming, recent trends in Agriculture, Animal Husbandry and Dairy Development sectors all dealt by people of eminence in the area concerned. The magazine has entered its 62st year of printing this year.

2. KERALA KARSHAKAN ENGLISH JOURNAL

Kerala's first agricultural english journal, KeralaKarshakan English journal can be accessed free online on www.fibkerala.gov.in. The inaugural issue was released formally on June 2013.

The English journal brought out by the editorial team of Farm Information Bureau have contents on new research findings from across the globe apart from the information on agriculture sector.

The e-journal also carries articles from experts from the National Institutes like National Bureau of Plant Genetic Resources, Indian Institute of Spices Research, Indian Agriculture Research Institute, Indian Horticulture Research Institute, Directorate of Rice Research etc. Around 25,000 hits are received per month revealing the readability of the e-journal in the FIB website.

3. MEDIA LIAISON

A. PRESS RELEASE

Farm Information Bureau is the only authorised agency in Government sector to feed the media with day to day news related to departmental activities and other programmes of the Department of Agriculture, Animal Husbandry and Dairy Development.

B. HARITHADALAM

email: mediadivisionfib@gmail.com

Farm Information Bureau is publishing a fortnightly e-newsletter viz. 'Harithadalam' with relevant and timely news and events taking place in the field of Agriculture, Animal Husbandry & Dairy sector, research highlights etc.

C. ADVERTISEMENTS

email: mediadivisionfib@gmail.com

Advertisements of major activities of agricultural and allied sectors are done through print media, radio & FM channels & Visual Media.

4. PUBLICATIONS

A. FARM GUIDE

Farm Guide is the one and only reference guide being published by Farm Information Bureau which contain all basic data and technical information in farm sector.

B. OTHER INFORMATION MATERIALS

Information material like leaflets, booklets, brochures, posters, technical bulletins, pamphlets etc. are also regularly published by FIB for the benefit of farming community.

5. FARM NEWS OVER RADIO (KARSHIKA MEGHALA VARTHAKAL)

Farm Information Bureau is broadcasting Farm News over radio with the active co-operation of the All India Radio which is being broadcast regularly from Thiruvananthapuram, Alappuzha, Kochi, Thrissur, Kozhikode and Kannur Stations.

6. NJATTUVELA RADIO PROGRAMME

The Department of Agriculture started its first Radio programme, entitled 'Njattuvela' on 19.8.2013. 'Njattuvela' is being broadcast through FM channel of Akashvani on Monday, Tuesday, Wednesday and Thursday every week. The production of 'Njattuvela' is entrusted with Farm Information Bureau. The programmes aired through 'Njattuvela' include success stories, agricultural news, farmers query answering, documentaries, interview, agricultural advisory, market info, radio skit, folksongs, 'Nattarivu' book review, Children's agricorner and a special segment called 'Krishimantriyum Karshakanum' where farmers can directly speak to the Minister of Agriculture about their problems.

7. CAMPAIGNS AND SEMINARS

FIB is participating campaign activities in national and international exhibitions, including IITF New Delhi and organising Kissan Melas at specific locations in rural areas with the active participation of subscribers of KeralaKarshakan and the involvement of developmental departments. This will also give feedback for improving FIB activities.

8. VIDEO PRODUCTION

Farm Information Bureau is producing Video Programme titled "Noorumeni" which is being telecast through Dooradarshan on all Sundays at 09.30 am. It has completed 250 episodes. Repeat telecast is aired in Victers Channel. Selected videos can be downloaded from the FIB website.

9. FARM INFORMATION BUREAU WEBSITE www.fibkerala.gov.in

The website provides information of current activities of the departments of Agriculture, Animal Husbandry and Dairy Development. Website offers free access to electronic versions of various publications of FIB like Kerala Karshakan, Farm Guide, Haritadalam etc. Farm news service which incorporates news and events pertaining to agriculture and allied sectors arising from panchayat to state level is an added attraction of the website.

STATE HORTICULTURE MISSION, KERALA

Sunny Dale, Mead's Lane, University PO., Thiruvananthapuram.
Ph: 2330856

State Horticulture Mission - Kerala is a Society registered under Travancore Cochin Literary Scientific and Charitable Societies Act, 1955 in October 2005 for the implementation of National Horticulture Mission (NHM), a centrally sponsored scheme, which has been restructured as the Mission for Integrated Development of Horticulture (MIDH) from 2014-15 onwards.

The main objective of MIDH is end to end holistic development of the horticulture sector covering fruits, mushroom, medicinal plants, spices, flowers, aromatic plants and plantation crops. The main stakeholders of the programme are farmers, SHGs, KVKs, NGOs, Department of Agriculture, KAU, Commodity Boards, Private entrepreneurs, PSUs, etc.

The Mission programmes are implemented in all the districts. The crops identified for development under the Mission are Mango, Banana, Pineapple, Pepper, Ginger, Turmeric, Nutmeg, Cashew, Cocoa and flower crops. Bee keeping, vegetable seed production and Mushroom cultivation are also included in the programme.

The implementation of the State Horticulture Mission programmes is monitored in the State level by the Executive Committee chaired by the Agricultural Production Commissioner and also the Governing body under the Chairmanship of Hon'ble Minister for Agriculture Development and Farmers' Welfare. At the district level, District level Committee is constituted for implementing and monitoring of SHM programme under the Chairmanship of District Collector. The Deputy Director of Agriculture (H) of districts is the member secretary of the District level committee.

Schemes implemented by SHM-Kerala during 2017-18 are:

Mission for Integrated Development of Horticulture (MIDH)

During 2017-18, SHM-Kerala is implementing MIDH programme for an amount of Rs. 87.51 crore. The important programmes under the Mission include production and productivity improvement, post harvest management and marketing. The components under production and productivity improvement are establishment of nurseries for production of planting materials, establishment of new gardens, rejuvenation of existing plantations, protected cultivation, organic farming, horticulture mechanization, technology dissemination and bee keeping.

The important programmes included under post harvest management are establishment of integrated pack houses, sorting and grading units, cold storage, etc. Under the marketing development,

establishment of rural markets, functional infrastructure for collection and grading, strengthening of wholesale market, market intelligence, extension quality awareness and market led extension activities for fresh and processed foods are envisaged.

Pradhan Manthri Krishi Sinchayee Yojana (PMKSY)

State Horticulture Mission-Kerala has been entrusted with the implementation of On Farm Water Management (OFWM), a centrally sponsored programme, from 2014-15 onwards, which was implemented by the Department of Agriculture from 2005-06 to 2013-14 as Micro irrigation. During 2015-16 also, the On Farm Water Management (OFWM) scheme was implemented. From 2016-17 onwards, Micro irrigation was included under Pradhan Manthri Krishi Sinchayee Yojana (PMKSY). The Action Plan of PMKSY Micro Irrigation 2017-18 has been approved by the State Level Sanctioning Committee. The total outlay of the scheme is Rs. 1133 lakh. The components under PMKSY include Drip irrigation, Sprinkler irrigation and Training. The scheme is ongoing.

National Mission on Medicinal Plants (NMMP)

In Kerala, the National Mission on Medicinal Plants has been approved for implementation through State Horticulture Mission-Kerala. The mission aims at scientific cultivation, processing and marketing of medicinal plants on commercial basis. The National Mission on Medicinal Plants was launched in Kerala during the year 2009. In the State the activities of the mission are implemented through the following agencies: Department of Agriculture, Kerala Agricultural University, Department of Forest, NGO's, SHG's, Coconut Development Board, State Medicinal Plants board, ICAR Institutes, Local Self Government Department, Rubber Board and Cooperative Department.

The schemes implemented by the NMMP- Kerala are given below:

- A. Production of quality planting materials of medicinal plants
- B. Commercial Cultivation of Medicinal Plants

The Scheme has been renamed as NATIONAL AYUSH MISSION implemented by the State AYUSH Societies in the State from 2015-16 onwards.

During 2017-18, the total outlay of NMMP scheme is Rs. 279 lakh. The components include Establishment of nurseries, Cultivation of Medicinal Plants, Flexi component and training. Implementation of NMMP 2017-18 will start as soon as approval from Gol is obtained.

Programmes with the financial assistance of Rashtriya Krishi Vikas Yojana

The State Level Sanctioning Committee held on 28.06.2017 approved two projects for implementation under RKVY during 2017-18 named 'Area Expansion Programme for Enhancing Cashew Production in Kerala' with financial assistance of Rs. 120 lakh in an area of 1000 ha. and 'Area Expansion programme for enhancing Cocoa production in Kerala' with total financial assistance of Rs. 120 lakh in an area of 1000 ha. Administrative Sanction for the same has been obtained vide G.O. (Ms) No. 87/2017/AD dated 18.07.2017 and the projects are ongoing.

Hi-Tech Agriculture scheme

During 2017-18, Administrative Sanction has been accorded for the Scheme 'Hi-tech Agriculture' for an amount of Rs. 100 lakh (Rupees Hundred lakhs only) vide G.O.(Rt) No. 642/2017/AD dated 29.06.2017 of which an amount of Rs. 90 lakhs is set apart for SHM-Kerala, to provide financial assistance for new polyhouses in areas of SAZ on vegetables and flowers for Rs. 80 lakhs and for Capacity building and Technical Support for Rs. 10 lakhs. Balance of Rs. 10 lakhs is set apart for SAMETI for the Human Resource group for Technology Support and Capacity Building through SAMETI.

Assistance to Honey Production

During 2017-18, Administrative sanction has been accorded for the implementation of the project 'Assistance to Honey Production' with a total financial assistance of Rs. 150 lakh under the scheme "Value Addition and Post Harvest Management including Honey Production and Agro Business Company 2017-18" vide G.O (Rt) No.566/2017/AD dated 30-05-2017. The objective of the scheme is to support honey growers and promote production of value added honey products. The programme is being implemented by State Horticulture Mission through HORTICORP which is the State Designated Agency and implementation is in progress. The total cost of the project is Rs. 180 lakh. Rs 30 lakh is the contribution of the beneficiaries. The training programmes under the Scheme scheduled for the month of August and September has been completed.

Telephone numbers - State Horticulture Mission - Kerala

| | | |
|---|---|---------------------------------|
| J. Justin Mohan IFS Mission Director (Addl.Charge) Smt. Preetha K.S. | Telephone (O) 0471-2330856, Fax: 0471-2330857 Email: mdshmkerala@yahoo.co.in, mdshmkerala@gmail.com Website: www.hortnet.kerala.nic.in Mob: 9496002902 | Telephone (R) 9497724200 |
| Deputy Director of Agriculture (H) Smt. Rajasree M.R. | 0471-2330867 9496002903 | 0471-2437246 Mob: 9495186565 |

HARITHA KERALAM PROJECT- SUJALAM SUPHALAM

T.C. 2/3271(3)(4), Haritam, Kuttanad Lane, Pattom Palace P.O., Thiruvananthapuram
Ph. 0471 2449939. Email:haritham@kerala.gov.in

Dr. T.N. Seema
Executive Chairperson

The Haritha Keralam project proposed to be implemented by Government of Kerala has been titled "Sujalam Suphalam" by the Department of Agriculture Development and Farmers Welfare. Important components of the Haritha Keralam project are cleanliness campaign, waste management, agriculture development and water conservation. Neighbourhood groups in every region of the State decide on their needs and requirements pertaining to Agriculture and related sectors and plan programmes are formulated through a bottom up process from Ward, Panchayat, Block to District levels through successive consolidation.

The programme proposed to be implemented on a mission mode with the following objectives

- Achieve more income through more production
- identify regions appropriated for each crop as 'Special Agricultural Zones' and augment production through a participatory approach involving farmers' collectives for practising scientific agriculture for maximizing production
- Agriculture marketing system to be reformed appropriately so that farmers get competitive price for their produce
- Promote safe to eat food production in the State.

- Reduce the use of chemical fertilizer and pesticides to the maximum extent so as to protect the environment
 - Generate maximum employment opportunities in agriculture sector through promotion of remuneration agriculture and value addition
 - Accelerate the contribution of agriculture sector in the Kerala economy
 - Augment irrigation facilities for agriculture activities
 - Operationalise farm machanization to the maximum extent so as to reduce the cost of cultivation
 - Promot convergence of programmes of various departments to realise synergy in activities
 - Conserve traditional varieties and augment the availability of good quality seeds and planting material
 - Implement good agricultural practices (GAP) in an eco-friendly manner compatible with the environment
 - Ensure maximum price to the farmers through improved procurement practices and through value addition
 - Link producers with markets by operationalizing a user friendly market portal
- Process domestic waste into useful organic manure for cultivating crops

KARSHIKA KARMASENA AND AGRO SERVICE CENTRE

Agriculture Research Station, Mannuthy, Thrissur

Dr. U. Jayakumaran
Special Officer of the State

Ph: 9447530673

For the co-ordination and centralised monitoring of the activities of Agro Service Centres and Karshika Karmasenas throughout the State.

KISSAN KERALA PROJECT

KISSAN KERALA (Karshaka Information Systems Services And Networkin) is an integrated, multi model, ICT enabled agricultural extension system of the Department of Agriculture, Govt. of Kerala. The project was conceived, developed, implemented and managed by the Indian Institute of Information Technology and Management – Kerala (IIITM-K) an autonomous institute established by Govt. of Kerala.

Major Services and Activities of KISSAN

A. Kissan Krishideepam : Agricultural based weekly television programme

The media division under the project produces highly informative and authentic agriculture based television programme called “KISSAN-KRISHIDEEPAM”, is being telecast over a leading satellite channel called ASIANET on every Saturday at 7.30am and Sunday 7.30am and on Asianet News on Monday 4.30pm.

B. Kissan Portal based Online services (www.kissankerala.net)

C. Mobile based Agri-advisory and broadcast services

D. KISSAN ONLINE VIDEO CHANNEL

E. KISSAN ONLINE AUDIO PORTAL (Podcast Service)

Chief Project Coordinator
Kissan Kerala Project
Kissan Operations Centre
IIITM-K Building, Technopark Campus
Trivandrum – 695 581
Tel : 0471 – 2700965, 2700947
Fax : 0471 – 2527568
Email : info@kissankerala.net

KERALA STATE SEED DEVELOPMENT AUTHORITY

Ayyanthole, Thrissur – 3

| | Office | Residence |
|---|------------------------|------------|
| Chairman Teeka Ram Meena IAS (Agricultural Production Commissioner Principal Secretary to Government (Agri)) | 0471-2333042 | 7558859444 |
| Addl. Director - A.A. Prasad | 0487-2360299 | 9061478600 |
| Fax : | 0487-2365042 | |
| e-mail : jdakssda@hotmail.com, jdakssda@gmail.com | | |
| Regional offices : Alappuzha | 0477-2268613 | 9061478602 |
| Palakkad | 9061478603, 9061478605 | |

Kerala State Seed Development Authority is a autonomous body functioning under Department of Agriculture & Farmer's Welfare, Government of Kerala. It was registered on 24th May 2000 under Trancore-Cochin Literary Scientific and Charitable Societies registration act 1955. The main objectives of Kerala State Seed Development Authority is to carry out activities for promoting multiplication, production, procurement, processing and marketing of paddy seeds. The seed production programme is carried out with the co-operation of Kerala Agricultural University, State seed farms, Krishibhavans and farmers of Registered Seed Growers Programme at Panchayath level. Currently the scheme is being implemented in Malappuram, Palakkad, Thrissur, Ernakulam and Alappuzha districts in an area of 2500 Ha per year. Presently Kerala State Seed Development Authority is handling 12000 MT of paddy seeds. Kerala State Seed Development Authority also has three godown cum processing plants at Eruthenpathy (Palakkad), Kalarode (Alappuzha) and Pandalam (Pathanamthitta) respetively.

SAMETI- KERALA

(STATE AGRICULTURAL MANAGEMENT AND EXTENSION TRAINING INSTITUTE)

Department of Agriculture, Government of Kerala, Venpalavattom, Anayara.P.O.,
Thiruvananthapuram, Kerala. Pin- 695029

| | |
|---|--------------------------------|
| Chairman: Sri.Teeka Ram Meena IAS | 04712333042 |
| Director: P.S Radhamony | 04712743840, 9496196772 |
| e-mail: directorsametikerala@gmail.com | 04712740440 |
| website: www.sametikerala.com | |

SAMETI is a State level training institute established to impart training to extension functionaries involved in the implementation of ATMA.

The Department of Agriculture under the Central Sector Extension Reform Scheme, ATMA has established at Venpalavattom, Anayara in Kazhakuttom – Kovalam by pass road.

Key Objectives of SAMETI

- i) To function as the nodal State level training institute in the area of Agricultural Management.
- ii) To provide capacity building support in Extension management and related areas to extension functionaries both for public and private sector.
- iii) To provide consultancy services in the areas like project planning, appraisal, implementation etc.
- iv) Organize need based training programme for middle level and grass root level agricultural extension functionaries.
- v) Develop modules on management, communication, participatory methodologies etc.

Organizational Setup of SAMETI

For the smooth functioning of SAMETI, Government has constituted various committees and bodies viz. The General Council, The Executive Council and Technical Support Group.

The Director is the Chief Executive Officer of SAMETI. Director, SAMETI is the Member Secretary / Convener of General Council & Executive Council. Governing Body of the organization is constituted with 10 members including Agricultural Production Commissioner as Chairman and Director of Agriculture as Vice Chairman, with Directors, Additional Secretary etc. As members.

Programmes of SAMETI:

1. Capacity building:

SAMETI has been given training to Extension officers of Department of Agriculture and allied sectors like Animal Husbandry, Dairy and Fisheries. Besides training SAMETI has also conducting workshop on timely important agricultural aspects and off campus programmes on ATMA, ATMA PLUS and LEADS.

2. PGDAEM (Post Graduate Diploma in Agricultural Extension Management)

This program is started during 2007-2008 by MANAGE, Hyderabad. SAMETI is identified as nodal agency in Kerala. This is an one year diploma course based on semester system. The minimum qualification fixed for this course is graduation in Agricultural Sciences. During the year thirty eight candidates were enrolled for this course from Agriculture and allied sectors.

3. PGDPHM (Post Graduate Diploma in Plant Health Management)

This program is started during 2013-14 in collaboration with NIPHM (National Institute of Plant Health Management), Hyderabad. SAMETI act as a nodal agency. This is two year diploma course based on semester system in distant Education mode. The minimum qualification fixed for this course is graduation in Agricultural Sciences. During 2013- 15, 33 candidates were enrolled for this course from the Department of Agriculture and during 2014- 15, 30 candidates have registered.

4. Collaborative trainings & Advanced PG Diploma courses with NIELIT, Kozhikode.

Basic training programmes on ICT & Social Media were conducted for 60 officers of Agricultural Sector in collaboration with National Institute of Electronics & Information Technology (NIELIT), Calicut. These trainings were conducted as 3 batches at SAMETI & NIELIT. Out of the above 60 officers selected by NIELIT based on their performance and 3 months advanced Diploma Course on ICT & Social Media is being conducted for them.

5. Crop Museum

Crop Museum was established during 2009. It has more than 250 fruit plants including rare varieties. Some medicinal plants also planted in this museum. It covers an area of two acres. It is an externally aided project with financial assistance from the state Horticulture Mission, Kerala.

6. LEADS

In order to strengthen the existing agricultural extension service, a new project entitled "Lead Farmer Centered Extension Advisory and Delivery Services" (LEADS) proposed by the Planning Board was approved for implementation through the Department of Agriculture. The project was approved for pilot testing in

the districts of Kollam, Palakkad, Kannur and Wayanad. It is a frontier extension system revolved around "Lead Farmer – Satellite Farmer" concept on an agro-ecological unit basis within a district. The lead farmers are important agents in the chain of transfer of technology.

7. Other facilities:

AGRICULTURAL TRADITIONAL MUSEUM

SAMETI has established an agriculture museum in this premises. It is a collection of agriculture artifacts, age old measuring devices, storage bins, implements etc. These articles has been displayed in a befitting manner to the level of international standard. It is open to public so that the traditional agricultural practices will be known to them especially younger generation.

LIBRARY

Well sophisticated library with books on Management and HRD aspects.

KARSHAKABHAVANAM (Farmers Guest House):

SAMETI also provide accommodation to farmers. For that SAMETI has established Karshakabhavan. It has 26 double bed rooms which includes seven air conditioned rooms.

At a time fifty farmers can be accommodate here. Accommodation also be given to officers who are coming for SAMETI training programmes.

Poly House :- A Polyhouse of 400 Sqm is maintained on demonstration purpose in which crops like Salad Cucumber, Capsicum, Vegetable cowpea and tomato are raised.

Technical staff:

| NAME | CONTACT NO. |
|------------------------------|-------------|
| Beena Maheswari.S.K, DDA | 9447144934 |
| C.F.Salinskumar, DDA | 9495666610 |
| K.P.Sairaj, DDA | 9745423905 |
| G.Sreekantan Nair, DD(Dairy) | 9447864364 |
| Dr.Rani.K.Oommen, DD(AH) | 9446467776 |
| Ambily.R, DDF | 9349482600 |

VEGETABLE AND FRUIT PROMOTION COUNCIL KERALAM (VFPCCK)

Mythri Bhavan, Near Doordarsan Kendra, Kakkanad, Kakkanad, Kochi - 682 037

Phone : 0484-2427560, 2427544, 2427455

Fax : 0484-2427906

Seed production plant : 0492 2222706

E-mail : mail@vfpcck.org, vfpcckorg@gmail.com

Website : www.vfpcck.org

Chairman – **V.S. Sunilkumar,**

Hon'ble Minister for Agriculture Development and Farmers Welfare

Director & Chief Executive Officer – **S.K Suresh,** 0484-2427550, 9447701000, 9447101884

Director (A & F) -9447702000, Director (Projects I)-9447981155, Director (Projects II)-9447989955

The mandate of the Council is to support the commercial fruit and vegetable growers from seed to marketing in a sustainable way. VFPCCK aims to improve the livelihood of farmers by improving vegetable and fruit production and ensuring fair price to their produce through various

extension and financial support. The 11 membered Board of Directors chaired by the Hon'ble minister for Agriculture Development and Farmers Welfare including four farmer representatives acts as the governing body of VFPCCK

The Self Help Groups conceptualised by the Council form the basic units of all interventions like Extension, Rural credit, Group Marketing and Value addition. Seed Processing Plant at Alathur produces 17 items of vegetable seeds through registered seed growers who are trained for seed production. A tissue culture lab also functions in the same premises to ensure quality planting material supply of fruit plants and TC plantlets .

Safe to Eat/Organic farming : Participatory Guarantee System (PGS) of certification is being implemented by forming local groups who are mutual guarantors of organic cultivation. RCOF (Regional Centre for Organic Farming) has accepted VFPCCK as RC (Regional Council). PGS Green Certification have been awarded to eligible farmers.

VFPCCK is promoting homestead cultivation and terrace gardening under Haritha Nagari Scheme in urban and semi urban areas to make each house hold self sufficient in vegetable production. Weather Data Collection : 26 Automated Weather Stations have been installed in different parts of the State to gather weather parameters. The data is transferred to Head Quarters and steps have been taken to utilize the same for weather forecasting in collaboration with Kerala Agricultural University.

Krishi Business Kendra (KBK) : A one stop shop for quality planting materials, seeds and seedlings, organic manures, growth regulators, bio-control agents, farm equipments, grow bags and organic pesticides are arranged for sale at KBKs functioning in Ernakulam, Thiruvananthapuram and Kasargod. Credit facility is made available to lease land farmers under VFPCCK Credit Package by an MoU executed with 10 nationalised commercial banks. Insurance package is also implemented to support the farmers in wake of calamity. Trainings with participatory techniques are duly imparted to farmers and study tours, interactions, exhibitions etc are conducted to empower the farmers to undertake a sustainable production system. Swasraya Karshaka Samithies are formed in production centres to market the produce of farmers directly by avoiding middlemen. Auction procedures followed in marketing leads to the transparency of deal and help in ensuring fair price to farmers. A system for branding VFPCCK products and services is progressing under the brand name 'Thalir'. New Initiatives of VFPCCK including Hitech Plug Nursery, Polyhouses, soil testing labs etc are in progress.

District Office

| District | Contact No | | Email Address |
|---|-------------------|------------|----------------------|
| Thiruvananthapuram | 0471-2335480 | 9446455663 | vfpcck.tvm@gmail.com |
| Kollam | 0474-2160364 | 9447988455 | vfpcck.klm@gmail.com |
| Pathanamthitta | 0473-4252030 | 9447988355 | vfpcck.pta@gmail.com |
| Kottayam | 0481-2534709 | 9447988255 | vfpcck.ktm@gmail.com |
| Idukki | 04864-223502 | 9447988155 | vfpcck.idk@gmail.com |
| Alappuzha | 0479-2380976 | 9446394468 | vfpcck.alp@gmail.com |
| Ernakulam | 0484-2422273 | 9447988055 | vfpcck.ekm@gmail.com |
| Thrissur | 0480-2727950 | 9447982255 | vfpcck.tsr@gmail.com |
| Palakkad | 04922-223826 | 8547600374 | vfpcck.pkd@gmail.com |
| Malappuram | 0483-2768987 | 9447984455 | vfpcck.mlp@gmail.com |
| Calicut | 0495-2225517 | 9447983355 | vfpcck.clt@gmail.com |
| Kannur | 0497-2708211 | 9497715463 | vfpcck.knr@gmail.com |
| Wayanad | 04936-286012 | 9447988655 | vfpcck.wnd@gmail.com |
| Kasargode | 0467-2217410 | 9497715463 | mpakgd@vfpcck.org |
| SPP | 0492-2222706 | 9447988555 | vfpcck.spp@gmail.com |
| Krishi Business Kendra (KBK) Ernakulam | 0484-2881300 | 9497713883 | vfpcck.kbk@gmail.com |

Krishi Business Kendra (KBK)
Thiruvananthapuram 0471-2740480 8289907652 kbktvmvfpck@gmail.com
Krishi Business Kendra (KBK)
Kasargode 04994-257061 9446702061 kbkkasaragod.vfpck@gmail.com

Vazhakulam Agro and Fruit Processing Company Limited

VI/169 A-F, Avoly P.O, Muvattupuzha,
Ernakulam Dist. Kerala – 686 670
0485 – 2261451, 2989095 Fax: 0485 – 2261551
Email: jiveagrofruit@gmail.com

Chairman : **Sri. Babu Paul Ex.** MLA
MD : **Sri. Shibu Kumar L**

Ph:9446397590
Ph: 9388834917

WTO Cell

North Block, Secretariat, Thiruvananthapuram

| | Special Officer & Additional Secretary | 0471 2327039 | 9446967010 |
|--|--|---------------------|-------------------|
| Sri. C. Ramankutty Sri.Harikumar B | Assistant Director of Agriculture & Officer on Special Duty | | 9447364492 |
| Sri.Shajan A | Under Secretary Email: wtocellkerala@gmail.com | 0471 2517169 | 9645822922 |

The WTO Cell was set up in the Agriculture Department of Secretariat in June 2004 based on the recommendation of Dr. M.S. Swaminathan Commission Report on Agricultural Trade to address the trade related concerns of agriculture in the State. The main activity of the cell is to advise the State Government on policy matters related to trade in agriculture in the context of India being a signatory to the WTO and other bilateral Agreements and also to advise the State Government on issues related to Foreign Trade Policy of Government of India with specific reference to the State's agricultural sector. The Cell periodically monitors the crop situation of the State and examines the domestic support and export subsidies provided to agricultural sector in the context of WTO Agreement on Agriculture and suggest measures for enhancing the competitiveness of commodities in the liberalized trade regime. The Cell draws opinion form stakeholders by conducting workshops, seminars and lectures to streamline Agricultural Policy of the State in tune with the changing policy environment. Capacity Building Programmes on WTO and FTAs are also being conducted by the Cell. It also looks into the functioning of EEC aided Wholesale Markets and establishment of Agri malls.

**International Research and Training Centre
for below Sea Level Farming**

Kuttanad, Thottappally P.O., Alappuzha

Dr. K.G. Padmakumar Director
M.P. Mayadevi Kunjamma Deputy Director
P. Devadas Administrative Officer

0477 2297001 **9387882179**

To facilitate a participatory and partnership based research and communication system that promotes sustainable farming in coastal wetlands that reduces vulnerability to climate change, sea water intrusion, acidity, floods, pests, pathogen and such other problems through innovation that safeguards, stabilise and enhance natural resource capital, soil health and biological systems.

PUBLIC SECTOR UNDERTAKINGS

I - AGRICULTURE

SMALL FARMERS AGRI BUSINESS CONSORTIUM, KERALA

1st Floor, Administrative Block AUWM, Anayara P.O, Thiruvananthapuram 695029

Phone: 0471- 2742113

| | Office | Mobile |
|---|---------------|------------|
| President : Teeka Ram Meena IAS (Agricultural Production Commissioner) | 0471-2333042 | 9400156199 |
| Managing Director : K.C. Rugmini Devi e-mail : sfackerala123@gmail.com website: www.sfackerala.org | 0471- 2742113 | 9446303011 |
| Geetha Philip - Project Director | | 9387690725 |
| Sudha Devi K.C. - Project Leader | | 9447475507 |

SFAC is currently implementing schemes for promotion of micro, small and medium Value Addition Projects in the state. SFAC also supports Value Addition Ventures by providing technology support and organizing training programmes and awareness camps.

Karshika Vivara Sanketham – Agricultural Information at Finger Tip

A digitally empowered and most useful ICT enabled Agricultural Information hub in Kerala is being implemented by SFAC. This is a single window system to get A-Z information on Agriculture, Animal Husbandry and Dairy Sector by integrating social media tools. This is a novel, innovative project implemented on digital platform. This project envisages call centre facility for the farmers having access through web portal, voice call (Toll free), mobile apps, e-mails and social media routers like face book, Twitter, Whats app etc.. Three mobile apps namely e – marketing, web portal, karshikakeralam in google playstore are also available in this facility. It is a single window solution to the farmers of Kerala and other Stakeholders on Technical issues, Marketing (buying and selling), National and State programmes on agriculture and allied sectors, adding query and content, information about Availability of all inputs including skilled labour, weather and knowledge updates etc are features of this system.

A new programme entitled 'Krishi Manthri Vilippurathu' is launched on November 1st 2017 wherein Hon'ble Minister for Agriculture Sri. V S Sunil Kumar is communicating directly with the farmers of Kerala through the facilities available at the Karshika Vivara sanketham. This programe is scheduled on the 1st Wednesday of every month from 5.30 pm – 6.30 pm. **Call centre Number--- 1800-425-1661**

DIRECTORATE OF ARECANUT & SPICES DEVELOPMENT

Kozhikode - 673 005

Director - Dr. Homey Cheriyan

e-mail : spicedte@nic.in

website - <http://dasd.gov.in>

0495-2369877

0495-2765501

Fax-0495-2765777

DIRECTORATE OF CASHEWNUT & COCOA DEVELOPMENT

8th & 9th Floor Kerabhavan, Kochi - 682 011

Director - Venkatesh N. Hubballi

e-mail : dccd@nic.in

Website : <http://dccd.gov.in>

0484 2377239, 2377151

Fax-0484-2377239

FERTILISERS AND CHEMICALS TRAVANCORE LTD. (FACT)

P.B. No. 15, Udyogamandal - 683 501

Chairman & Managing Director

S.K. Lohani

email: cmd@factltd.com

0484 2545101

Fax-0484-2546934

KERALA AGRO INDUSTRIES CORPORATION LTD. (KAICO)

Kissan Jyothi, Fort, Thiruvananthapuram - 695 023

MD - P. Suresh Babu

e-mail : mdkaicLtd08@bsnl.in

Website : www.keralaagro.com

2471343

Fax-0471-2463188

9745281822

KERALA AGRO MACHINERY CORPORATION LTD. (KAMCO)

Athani PO., Ernakulam 683 583

MD - P. Suresh Babu

e-mail : mail@kamcoindia.com

Website : www.kamcoindia.com

0484 2474301-(305)

0484 2475041

9496047394

Fax-0484-2474589

KERALA KERAKARSHAKA SAHAKARANA FEDERATION (KERAFED)

KERA Tower, Water Works Compound, Vellayambalam, Thiruvananthapuram - 695 033

Chairman: Adv. J. Venugopalakuruppu

MD - N. Ravikumar

e-mail : kerafed@giasmd01.vsnl.net.in

Website : www.kerafed.com

2320504

2326107, 2321660

Fax-0471-2326298

9446404505

9656220103

KERALA STATE COCONUT DEVELOPMENT CORPORATION

Chairman - M. Narayanan

MD - (ic) Janardhanan

e-mail: mail.kscdc@gmail.com

Website: www.kscdc.in

0495-2461350

0471-2741250

Fax-0495-2460350

KERALA LAND DEVELOPMENT CORPORATION (KLDC)

Regd off: Near Ramanilayam, Chempukavu, Trissur-680020

TC. 11/5701, Museum Bains Compound, Trivandrum-3

Chairman - T.Purushothaman

MD - P.S. Rajeev

email : kldctvm@gmail.com, ho@kldc.org

Website : www.kldc.org

0471-2315001

0471-2319697

Fax-0471-2319596

9744111762

KERALA STATE CO-OPERATIVE AGRIL. & RURAL DEVELOPMENT BANK LTD. (KSCARDB)

P.B. No. 56, Statue, Thiruvananthapuram - 695001

President - Solomon Alex 2460528, 2460595 9447025933
MD - E. Devadasan IAS
GM - Smt. Aparna Prathap 2462121, 2451961 8281452561
e-mail : ho.cardbank@gmail.com Fax-0471-2462671
Website : www.keralalandbank.org

KERALA STATE CO-OPERATIVE RUBBER MARKETING FEDERATION LIMITED (KSCRMF)

P.B. No. 15, Gandhi Nagar, Kochi - 682 020

President T.H. Mushthafa 0484 2205730 9447181999
MD - Unnikrishnan A. 0484 2205087
email :info@rubbermark.com 0484 2677599 9447077746
Website : www.rubbermark.com Fax-0484-2203425

KERALA STATE HORTICULTURAL PRODUCTS DEVELOPMENT CORPORATION (KSHPDC)

(HORTICORP) Udayagiri, Poojappura, Thiruvananthapuram - 695012. Ph: 0471 2359651

0471 2350378
MD - Dr. Babu Thomas 2359477 9447777245
e-mail : hortikorpo@yahoo.com Fax-0471-2359399

KERALA STATE WAREHOUSING CORPORATION

P.B. No. 1727, Kochi - 682 016. Ph: 2375537, 2376269

0484 2375537, 2376295, 2375180
MD - K.N. Ravindran 0484 2376709 9446515252
e-mail : kerwacor@gmail.com Fax-0484-2376339,
Website : www.kerwacor.com 2375567

OIL PALM INDIA LTD.

Regd.Office XIV/130, Kodimatha, Kottayam South PO.,Kottayam - 686 013

Ph. No. 0481 2566882, 0481 2567103

Chairman : Vijayan kunnisery 9847048738
MD - K.K. Sureshkumar 0481-2582202 7907976068
email - mdopil@yahoo.co.in, opilktm@dataone.in Fax-0481-2561442
Website-www.oilpalmindia.com

PLANTATION CORPORATION OF KERALA (PCK)

Muttambalam, Kottayam - 686 004

MD A. Unnikrishnan 0481 -2578301/02/03 9496076001
e-mail : pckltd@bsnl.in Fax-0481- 2578448
Website-www.pcklimited.in

REGIONAL AGRO INDUSTRIES DEVELOPMENT CORPORATION (RAIDCO)

Raidco Tower, PB No. 407, S.P.C.A. Road, Kannur-670 002

Chairman - Valsalan Panoli 0497-2700875, 2700276 9447065977
MD - C.P. Manojkumar 0497-2700875 9446005920
e-mail : info@raidco.in Fax: 0497-2700192
website : www.raidco.in

RAIDCO production Units

Pumpset Mnf. Unit- 0491 2566072 Rubber Roller Mnf. Unit- 0497 2760298
Fruit Canning Unit- 0490 2471302 Curry Powder Factory- 0497 2826794

STATE FARMING CORPORATION OF KERALA

Farm House, PB No: 13 ,Vettithitta P.O., Alimukku, Punalur, Kollam-689696

Chairman - K.K. Asharaf 9847227449
MD - C.F. Robert 0475-2225089 9447782251
email: sfckpnlr@gmail.com Fax-0475-2222245/51/52
www.sfckerala.com

II. ANIMAL HUSBANDRY

KERALA LIVESTOCK DEVELOPMENT BOARD (KLDB)

Gokulam, Pattom, Thiruvananthapuram - 695 004. Ph: 2449138

Chairman - Anil X. IAS
MD - Dr. Jose James 2440920 9446458019
e-mail : kldboard.kldb@kerala.gov.in, kldboard8@gmail.com 9495949057
Website : www.livestock.kerala.gov.in Fax-0471-2440673

The Kerala Livestock Development Board established in 1976 is the descendent of the Indo Swiss Project launched during 1963. The Board is envisaged for the supply of inputs for Cattle, Goat, Pigs and Fodder production in the State. Objectives of KLD Board are supply of frozen semen, Production and supply of fodder seeds, Organizing practical training programmes on various aspects connected with livestock and fodder production etc. KLDB has three semen stations – Mattupatti (Idukki district), Dhoni (Palakkad district), Kulathupuzha (Kollam district) which maintain around 250 adult bulls of different breeds and training centers (located at Mattupatti, Dhoni, Kulathupuzha and Puthur) which offer short term training courses of 1-6 weeks duration for field technicians and professionals.

KERALA FEEDS LIMITED (KFL)

Kallettumkara, Thrissur -680 683, PH: 0480 2713550

Chairman - K. S. Indusekharan Nair 0480 2727102 9447790114
MD - Dr. B. Sreekumar 0480 2721256 9496103200
e-mail: md.kfl@kerala.gov.in, mdsoffice.kfl@kerala.gov.in Fax: 0480 2720194
Website: www.keralafeeds.com

KERALA STATE POULTRY DEVELOPMENT CORPORATION (KSPDC)

TC 30/697, Pettah, Thiruvananthapuram - 695 024

| | | |
|---------------------------------|------------------|------------|
| Chairperson - Chinchu Rani | 2468585 | 9495000911 |
| MD - Dr. Vinod Josh | 2468585 | 9447450617 |
| e-mail : kepcopoultry@gmail.com | Fax-0471-2477676 | |
| Website : www.kepco.nic.in | | |

MEAT PRODUCTS OF INDIA LTD (MPI)

Edayar, Koothattukulam, Ernakulam - 686 662

| | | |
|----------------------------------|-----------------------------|------------|
| Chairman - Adv. T.R. Rameshkumar | 0485-2253075 | 9447350080 |
| MD - Dr. Bijulal | 0485-2253075 | 9496972370 |
| e-mail : mpiedayar@gmail.com | Fax-0485-2252695 9446474333 | |
| www.meatproductsofindia.com | | |

III. DAIRY

1. KERALA DAIRY FARMERS' WELFARE FUND BOARD (KDFWFB)

Head office : KERALA DAIRY FARMERS WELFARE FUND BOARD, TC11/20,

Thumbunkal Manoj Mandir, Plamoodu –PMG Road, Pattom Palace P.O.,

Thiruvananthapuram-695 004, E-mail : keraladairyfarmerswfb@yahoo.in Website- www.kdfwf.org

Phone : 0471-2723671, 9446373671

CHIEF EXECUTIVE OFFICER: S. GEETHA (9446373671)

KDFWFB established by the Government of Kerala aims at providing welfare measures to the dairy farmers who supply milk to Dairy Co-operatives registered under the Department of Dairy Development. Such a venture by any State Government exclusively for the benefit of dairy farmers as a social welfare scheme for them is the first and only one of its kind in India. A dairy farmer above 18 yrs of age who has poured 500 litres of milk in any of the primary milk cooperatives in Kerala is eligible to apply for membership in the Kerala Dairy Farmers Welfare Fund (KDFWF). At present it has more than 2.77 lakh Dairy farmers as members. Prime objective of the fund is to allot monthly pension to those having poured 500 litres of milk for five years in any of the primary milk cooperatives on acquiring 60 years of age. Benefits like Disability Pension, Family Pension to the close relatives of deceased pensioners, marriage assistances, educational Scholarships, assistances for illnesses, accidents and accidental deaths, awards to best farmers etc also are envisaged. The applications along with supporting documents are to be forwarded online to Block level officers of Dairy Development Department for onward transmission to KDFWFB through their District level Officers with necessary authentications.

Taking into account of the large number and volume of data to be handled at each point and the lack of proportionate manpower a comprehensive web-based solution namely KSHEERAJALAKAM which can be accessed through the website viz. <http://www.kdfwf.org> of KDFWFB was developed to automate the functions of KDFWFB from enrollment of members to process of providing benefits to the eligible members. An Aadhar based biometric application namely Ksheera Sachethana also can be accessed through the website which helps pensioners to submit their life certificates by authenticating their finger-print against Aadhar server and thus completely eliminating manual, tapal based Life certificate processing and manual workflows.

The fund required for the activities is raised as contribution from dairy farmers, Milk Co-operatives, Regional Milk Unions and Government Contribution.

THE FUNCTIONS OF THE BOARD IS SUMMED UP AS FOLLOWS:

| SL. No. | ASSISTANCES | ELIGIBILITY | AMOUNT |
|---------|---|--|--|
| 1 | Enrollment | Dairy farmers pouring at least 500 liters milk in a Dairy Co-operative in a Financial Year | Membership registration free Rs.100/- |
| 2 | Pension | KDFWF Member Pouring minimum of 500 L of Milk for 5 years and completed 60 years of age | Rs.1100/- per mensem |
| 3 | Family Pension | Legal Heir of Pensioner | Rs.150/- per mensem |
| 4 | Invalid Pension | KDFWF member & those who become physically invalid and cannot continue cattle rearing | Rs.500/- per mensem |
| 5 | Marriage assistance to Daughter of Dairy Farmer | All members of KDFWF | Rs.5000/- |
| 6 | Cremation Assistance | On the event of death of Dairy Farmer | Rs. 3000/- |
| 7 | Ksheera Suraksha Scheme | Eligible Members of KDFWF | Death due to Accident Rs. 50,000/ - Permanent Total Disability due to stroke & accident Max Rs.10,000/-, Treatment of critical illness like cancer, cardiac diseases, nephritic diseases etc.Rs.15,000/- Treatment of contagious diseases, Zoonotic disease, Snake bite, Anti rabies inoculation, Treatment of Serious injury – Max Rs.2,000/- |
| 8 | Education Scholarship | Children of KDFWF Members | SSLC- Rs.1,000/- Plus 2- Rs.1500/- Degree - Rs.2000/- Professional courses - Rs.2500/- |
| 9 | Awards | Best Dairy Farmer | State level - Rs.5000/ District level - Rs.5000/- |

For further details contact the Primary Co-operative societies in the area/Block Dairy Extension Service units/ District Quality Control Offices of Dairy Development Department.

KERALA CO-OPERATIVE MILK MARKETING FEDERATION (MILMA)

Pattom, Thiruvananthapuram - 695 004

Chairman - P.T. Gopala Kurup

2555991, 2555982 9447047264

MD - Pugazehndi IFS

Fax-0471-2555993 9447702525

e-mail : james@milma.co.in

Website :: www.milma.com

KCMMF has a three-tier structure with the Anand Pattern milk Co-operative societies at the village level, 3 Regional Milk Producers' Unions at the middle level namely TRCMPU, ERCMPU, MRCMPU and KCMMF as apex body at the State level. The farmer memberships of primary milk co-operative societies is estimated as 7.5 lakhs through 3267 milk Co-operatives by March 2017.

Similarly, milk procurement is estimated as over 10.5 lakh litres per day in 2016-17. The average milk sales per day for the year 2016-17 was 13.08 lakh litres

Milma follows the system advocated in Operation Flood by collecting milk from Societies round the year and providing various support systems like supply of compounded cattle feed, veterinary care, support for fodder development activities, organized training in all aspects of cattle management and society management. There are 13 milk processing plants with a combined capacity of 16.85 lakh litres per day. There is a centralized training facility at Thrissur providing training to society staff, farmers and employees of Milma and focuses its efforts towards quality improvement and customer satisfaction.

IV. ICAR INSTITUTIONS

CENTRAL PLANTATION CROPS RESEARCH INSTITUTE (CPCRI)

Kasaragod - 671 124

Director - Dr. P. Chowdappa

e-mail: cpcricri@nic.in, directorcpcricri@gmail.com

Regional Station, Krishnapuram P.O., Kayamkulam

Head: Dr. V. Krishnakumar

Website : www.cpcricri.gov.in

04994-232333

09916355932

Fax: 04994232322

Ph: 0479 2445733

CENTRAL TUBER CROPS RESEARCH INSTITUTE (CTCRI)

Sreekariyam, Thiruvananthapuram - 695 017

Director : Dr. Archana Mukherjee

Phone: 0471- 2598431 (Director),

e-mail: director.ctcri@icar.gov.in, ctcritvm@gmail.com

Website : www.ctcri.org

0471-2598551 to 2598554

Fax : 0471-2590063

INDIAN INSTITUTE OF SPICES RESEARCH (IISR)

P.B.No. 1701, Marikunnu P.O., Kozhikode - 673 012

Director - K. Nirmal Babu

e-mail: director@spices.res.in

e-mail: mail@spices.res.in

Website : www.spices.res.in

0495-2730294

9447331455

Fax : 0495-2731187

V. COMMODITY BOARDS

COCONUT DEVELOPMENT BOARD (CDB)

Kera Bhavan, SRVHS Road, Kochi - 682 011

Chairman : B.N.S. Murthy

Secretary - Dr. Anup Kumar Nandi

e-mail : cdbkochi@gmail.com

Website : www.coconutboard.gov.in

0484 2377266, 2375999

2377737, 2376265 9447177737

Fax-0484-2377902

COFFEE BOARD

No. 1, Dr. Ambedkar Veethi, Bangalore-560 001

e-mail : chairmancoffeeboard@gmail.com

Website : www.indiacoffee.org

Kerala Regional Office [Joint Director, Wayanad, Kerala]

Email: jdekalpetta@gmail.com

Deputy Director (Extn) Kalpetta, wayanad

Email: ddekalpetta@gmail.com

Fax : 080-22255557

04936-203307

9446510118

04936-202446

9446460566

KERALA STATE BIODIVERSITY BOARD

L – 14, Jai Nagar, Medical College P.O., Thiruvananthapuram, Pin – 695011
Phone : 0471 – 2554740, Fax : 0471 – 2448234

Chairman - Dr. S.C. Joshi IFS (Retd)

Member Secretary-Dr.Dinesan Cheruvat

Email- keralabiodiversity@gmail.com

Website: www.keralabiodiversity.org

0471 2554740

0471 2559134

8078020272

KERALA STATE LAND USE BOARD, Vikas Bhavan

Thiruvananthapuram

Land Use Commissioner

Nizamudeen A.

e-mail :landuseboard@yahoo.com

Website : www.kslub.kerala.gov.in

2307833

2302231, 2307830

Fax: 2307838

9446503040

RUBBER BOARD

PB. No. 1122, Sub Jail Road, Kottayam - 686 002

Chairman - Dr. M.K. Shanmuga Sundaram IAS

Director (Training) **P. Sudha**

e-mail : info@rubberboard.org.in

Website : www.rubberboard.org.in

0481-2301231

Fax-0481-2571380

SPICES BOARD

P.B. No. 2277, Kochi - 682 025

Chairman (Addl. Charge)- Dr. A. Jayathilak IAS

Secretary (i/c) - S. Sidharamappa

Website : www.indianspices.com

e-mail : spchairman@gmail.com

0484 2333304

0484 2333607

Fax-0484-2334429

STATE AGRICULTURAL PRICES BOARD

Statue, Thiruvananthapuram - 695 001

Secretary: P. Prabha

e-mail : ksabpstatue@gmail.com

0471 2473411

Fax-0471-2473411

VI. OTHER INSTITUTIONS

NATIONAL CENTRE FOR EARTH SCIENCE STUDIES(CESS)

Akkulam, P.B. No.7250, Thuruvekkal.P.O.,Thiruvananthapuram - 695 031

Director - Dr. N. Purnachandra Rao

e-mail : director.n.cess.@nic.in

Website : www.cess.res.in

0471-2511502

Fax-0471-2442280

CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT (CWRDM)

(An Institution of Kerala State Council for Science, Technology and Environment, Govt. of Kerala)

Kunnamangalam, Kozhikode - 673 571

CWRDM is a premier R & D institution in the water sector established by the Government of Kerala. Recognising the need for catering to the R & D needs in the field of water management, the Centre for Water Resources Development and Management (CWRDM) was established as an autonomous

research organisation by the Government of Kerala, under its Science and Technology Policy in February 1978. The Centre was amalgamated with the Kerala State Council for Science, Technology and Environment (KSCSTE) in its Silver Jubilee Year-2003.

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Phone : (91) 495 2351800,2351801
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Website : www.cwrddm.org

M.S. SWAMINATHAN RESEARCH FOUNDATION, KALPETTA, Wayanad
Community Agro Biodiversity Centre, Puthoorvayal, Meppady PO, Kalpetta- 673577

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Head - Dr. V. Balakrishnan 04936-204477
e-mail : office@mssrfcabrc.res.in Fax : 04936-207019
website : www.mssrfcabrc.res.in

NATIONAL HORTICULTURE BOARD

Ministry of Agriculture and Farmers Welfare, Govt of India
UR - 10, Uppalam Road, Statue, Thiruvananthapuram. - 695001

Sr. Horticulture Officer - Ramesh S.K. Ph: 0471-2470505, 2470506
e-mail : nhbtvm@gmail.com, Website: www.nhb.gov.in 9891150620

NATIONAL SEEDS CORPORATION LTD.

TC 8/1441 (21), AAA RB Plaza, Arayalloor, Thirumala, Thiruvananthapuram-695006

Area Manager - R. Purnima Ph: 0491-2566414 9895013810
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NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY

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Chairman - Adv. V. S Sunilkumar, Hon'ble Minister for Agriculture Development & Farmers Welfare

Vice Chairman - N. Sukumara Pillai 9447484271
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e-mail : onattukylm@gmail.com

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

Jagathy, Thiruvananthapuram- 695014

Director - Prof. M. Radhakrishna Pillai 2347973 2733819
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Website : www.rgcb.res.in Fax-0471-2348096

JAWAHARLAL NEHRU TROPICAL BOTANICAL GARDEN AND RESEARCH INSTITUTE

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director@jntbgri.res.in

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0472-2869246

9446422458

Fax-0472-2869646

KERALA AGRICULTURAL UNIVERSITY

Kerala Agricultural University, established in 1971 by KAU Act (Act 33 of 1971) is the premier and principal Institution providing human resources, skills and technology for agricultural development of the State. It began functional from 1st February 1972.

Governor of Kerala is the Chancellor and Minister of Agriculture is the Pro-Chancellor of the University. Vice Chancellor is the principal executive and Academic Officer of the University. The activities of University are controlled and guided by a General Council and Executive Committee.

KAU P.O., Thrissur

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Fax : 0487-2370019

Website : www.kau.edu

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| Prof & Head, IF, VLY Dr. Babu Mathew | 0471 2383573 | 9447205996 | ifvellayani@kau.in |
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| Prof&Head,RRS, Mancompu Dr. Reena Mathew | 0477 2702245 | 9446494769 | rrsmoncompu@kau.in |
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| Prof&Head,Central Nursery, Vellanikkara Dr. Usha K.E. | 0487 2374332 | 9446381631 | centnursery@kau.in |
| Prof& Head, CPBMB, Vellanikkara Dr.M.R.Shylaja | 04872371994 | 9446364216 | cpbmb@kau.in |
| Prof & Head, CGSAFED, Vellanikkara Dr. P. S. Geethakutty | 04872375611 | 9447801236 | genderstudies@kau.in |
| Prof & PI, IPR Cell Dr. C. R. Elsy | | 9447878968 | iprcell@kau.in |
| Prof & Head, PRC, Vellanikkara Dr. A. K. Babylatha | 0487 2373242 | 9446080370 | prcvka@kau.in |
| Prof & Head, Manjeswar sub Centre, Vorkady Dr. K.AbdulKareem | 04998 202203 | 9995020782 | scmanjeswar@kau.in |
| Sr. Scientist & Head KVK, Kollam Dr. Bindu Podikunju | 0474 2663599 | 9745643733 | kvkkollam@kau.in |
| Sr.Scientist & Head KVK, Kottayam Dr. Jayalaksmi | 0481 2523421 | 8281750541 | kvkkottayam@kau.in |
| Prof & Head KVK, Thrissur Dr. A. Prema | 0487 2375855 | 9446319848 | kvkthrissur@kau.in |
| Prof & Head KVK, Palakkad Dr. Israel Thomas M. | 0466 2212279 | 9443446661 | kvkpalakkad@kau.in |
| Prof & Head KVK, Malappuram Dr. P. V. HabiburRahman | 0494 2687640 | 9895703726 | kvkmalappuram@kau.in |
| Sr.Scientist & Head KVK, Wayanad Dr.Safia N.E | 0493 6260411 | 7561806901 | kvkwayanad@kau.in |
| Sr. Scientist & Head KVK, Kannur Dr. P. Jayaraj | 0460 2226087 | 9446960736 | kvkkannur@kau.in |
| Public Relations Officer Ajit Kumar B | 0487 2370051 | 9400570051 | pro@kau.in |

A. COLLEGES FUNCTIONING UNDER THE UNIVERSITY

| | Phone | Fax |
|---|-------------------------|--------------|
| 1. College of Agriculture, Vellayani Thiruvananthapuram-695522 | 0471-2382439 2381915 | 0471-2381829 |
| 2. College of Horticulture, Vellanikkara, Thrissur - 680656 | 0487-2371652 2370822 | 0487-2371790 |
| 3. College of Agriculture, Padannakkad Kasargod -671328 | 0467-2280616 | 0467-2284099 |
| 4. College of Forestry, Vellanikkara, Thrissur - 680656 | 0487-2370050 2371018 | 0487-2371040 |
| 5. College of Co-op. Banking & Management, KAU (PO), Thrissur-680656 | 0487-2370367 | 0487-2370019 |
| 6. Kelappaji College of Agrl. Engg& Technology, Tavanur-73 | 0494-2686214 | 0494-2686009 |

B. REGIONAL AGRICULTURAL RESEARCH STATIONS

| | | |
|---|-------------------------|--------------|
| 1. Regional Agricultural Research Station (Southern Zone), Vellayani, Thiruvananthapuram | 0471-2383239 | 0471-2382239 |
| 2. Onattukara Regional Agricultural Research Station, Kayamkulam | 0479-2443192 | 0479-244790 |
| 3. Regional Agricultural Research Station (Special Zone), Kumarakom, Kottayam | 0481-2524421 | 0481-2523120 |
| 4. Regional Agricultural Research Station (Central Zone), Pattambi | 0466-2212228 2212275 | 0466-2212275 |
| 5. Regional Agricultural Research Station (High Range Zone), Ambalavayal, Wayanad. | 04936-260421 | 260421 |
| 6. Regional Agricultural Research Station (Northern Zone),Pilicode, Kasaragode. | 0467-2260450 | 2260554 |

C. OTHER STATIONS OF KAU

| | |
|--|---------------|
| 1. Agril. Research Station, Mannuthy | 0487-2370726 |
| 2. Agron. Research Station, Chalakkudy | 0487 -2702116 |
| 3. ARS Sub Centre for Water Management Vellanikkara at PRS, Vellanikkara | 0487-2373242 |
| 4. Agrl. Research Station, Anakkayam | 0483-2864239 |
| 5. Agrl. Res. Station, Thiruvalla | 0469-2604181 |
| 6. Aromatic & Medicinal Plants Research, Station, Odakkali | 0484-2659881 |
| 7. Banana Research Station, Kannara | 0487-2699087 |
| 8. Cardamon Research Station, Pampadumpara | 04868-236263 |
| 9. Coconut Research Station, Balaramapuram | 0471-2400621 |
| 10. Cropping System Research Station, Karamana | 0471-2343586 |
| 11. Cashew Research Station, Madakkathara | 0487-2370339 |
| 12. Communication Centre, Mannuthy | 0487-2370773 |
| 13. Central Training Institute, Mannuthy | 0487-2371104 |

| | |
|--|--------------|
| 14. Central Nursery, Vellanikkara | 0487-2374332 |
| 15. Centre for Gender Studies in Agriculture & Farm Entrepreneurship Development, Vellanikkara | 0487-2375611 |
| 16. Farming System Research Station, Sadanandapuram | 0474-2663535 |
| 17. PRS, Panniyoor | 0460-2227287 |
| 18. Pineapple Research Station, Vazhakulam | 0485-2260832 |
| 19. Pineapple Research Station, Vellanikkara | 0487-2370370 |
| 20. RRS, Moncompu | 0477-2702245 |
| 21. RRS, Vyttila | 0484-2809963 |
| 22. Soil Conservation Research Station, Konni | 0468-2249111 |
| 23. Instructional Farm, Vellayani | 0471-2383573 |

KERALA VETERINARY & ANIMAL SCIENCES UNIVERSITY (KVASU)

Pookod, Lakkidi P.O., Wayanad

Kerala Veterinary & Animal Sciences University (KVASU) established in December 2010 as a full fledged University, offers education, research and extension services in the field of veterinary and animal sciences. Located in Pookod, Wayanad, KVASU has three constituent colleges- College of Veterinary and Animal Sciences, Mannuthy, Thrissur, College of Veterinary and Animal Sciences, Pookod, Wayanad and College of Dairy Science and Technology, Mannuthy.

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| Registrar | 0487 2373043 | registrar@kvasu.ac.in |
| Director of Acad.& Res. | 0487 2373644 | dar@kvasu.ac.in |
| Director of Entrepreneurship | | de@kvasu.ac.in |
| Finance Officer | 0471 2550058 | |
| Website : www.kvasu.ac.in | | |

COLLEGES FUNCTIONING UNDER THE UNIVERSITY

| | Phone | Fax |
|---|--------------|--------------|
| 1. College of Vety., & Animal Sciences Mannuthy (PO), Thrissur-680651 | 0487-2370344 | 0487-2370388 |
| 2. College of Vety., & Animal Sciences, Pookode | 04936-256991 | 04936-256390 |
| 3. College of Dairy Science & Technology, Mannuthy (PO), Thrissur-680651 | 0487-2372861 | 0487-2370388 |
| 4. College of Dairy Science & Technology, Keltron Equipment Complex, Karakulam (PO), Trivandrum -695564 | 0472-2888288 | |
| 5. College of Avian Science & Management, Thiruvazhamkunnu (PO), Palakkad-678601 E-mail: pfso@kvasu.ac.in | 9446096855 | |
| Web: www.kvasu.com | | |

OTHER STATIONS OF KVASU

| | |
|--|--------------|
| 1. Base Farm, Kolahalmedu, Idukki | 9447386770 |
| 2. Centre for Advanced Studies in Poultry Science, Mannuthy | 0487 2370117 |
| 3. Centre for Advanced Studies in Animal Breeding and Genetics, Mannuthy | 0487 2374461 |
| 4. Instructional Farms, attached to COVAS, Pookod, Wayanad | 04936256470 |
| 5. Livestock Research Station, Thiruvazhamkunnu, Palakkad | 0487 2552536 |
| 6. University Poultry & Duck Farm, Mannuthy, Thrissur | 0487 2370344 |
| 7. Pig Breeding Farm, Mannuthy, Thrissur | 0487 2370378 |
| 8. Goat & Sheep Farm, Mannuthy, Thrissur | 0487 2376117 |
| 9. Regional Cattle Infertility Research Centre, Kozhikode | 0495 2730614 |
| 10. University Livestock farm and Fodder Research and Development Scheme, Mannuthy, Thrissur | 0487 2370302 |
| 11. All India Co-ordinated Research Project on Poultry, Mannuthy, Thrissur | 0487 2370237 |
| 12. Meat Plant, Mannuthy | 0487 2370956 |
| 13. Dairy Plant, Mannuthy | 0487 2370848 |
| 14. Veterinary Hospital, Kokkalai, Thrissur | 0487 2423415 |
| 15. Veterinary Hospital, Mannuthy, Thrissur | 0487 2370665 |
| 16. Cattle Breeding Farm, Thumburmuzhi | 0480 2746065 |

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Email: vckufos@gmail.com

KRISHI VIGYAN KENDRAS (KVK) IN KERALA

| S.No. | Address | Host Organization | Phone Number |
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| 1. | Krishi Vigyan Kendra, Mitraniketan, Vellanad, Thiruvananthapuram-695543 | Mitraniketan | 0472 2882086 |
| 2. | Krishi Vigyan Kendra, Sadanandapuram, Kollam-691550 | KAU | 0474 2663599 |
| 3. | Krishi Krishi Vigyan Kendra, CPCRI Regional Station,PO.Krishnapuram, Kayamkulam, Alleppey-690533 | CPCRI | 0479 2449268 |

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| 4. | Krishi Vigyan Kendra, Kolabhogom, Thadiyoor, Distt. Pathanamthitta-689545 | CARD | 0469 2661821 |
| 5. | Krishi Vigyan Kendra, Regional Agricultural Research Station, Kumarakom, Kottayam-686566 | KAU | 0481 2523421 |
| 6. | Krishi Vigyan Kendra, Bapuji Sewak Samaj, Santhanpara, Chakkopallam, Idukki-685619, PO-Kumily-685509 | | 04868 247541 |
| 7. | Krishi Vigyan Kendra, Njarakkal, Ernakulam-682505 | CMFRI | 0484 2492450 |
| 8. | Krishi Vigyan Kendra, Vellanikara, Thrissur-680656 | KAU KAU | 0487 2370540 0487 2375855 |
| 9. | Krishi Vigyan Kendra, Pattambi, Palghat.679306 | KAU | 0466 2212279 |
| 10. | Krishi Vigyan Kendra, Kellappaji College of Agriculture Engineering & Technology, Tavanur, Malappuram-679573 | KAU | 0494 2686329 |
| 11. | Krishi Vigyan Kendra, Peruvannamuzhi, Kozhikode (Calicut)-673528 | IISR | 0495 2666041 |
| 12. | Krishi Vigyan Kendra, Ambalavayal, Wayanad-673593 | KAU | 0493 6260411 |
| 13. | Krishi Vigyan Kendra, Panniyur, PO. Kanhirangad, Taliparamba, Kannur-670142 | KAU | 04994 232993 |
| 14. | Krishi Vigyan Kendra, PO. Kudlu, Kasaragode-671124 | CPCRI | 04994 232993 |

STATE AGRICULTURAL UNIVERSITIES (SAU)

| Sl. No. | Name, email & website | Address | Telephone/Fax |
|---------|---|--|--|
| 1 | Acharya NG Ranga Agricultural University Website: http://www.angrau.net Email: angrau_vc@yahoo.com , raghuvardhanreddy_s@rediffmail.com | Administrative Office, Rajendra Nagar, Hyderabad-500030, Andhra Pradesh | 040-24015035, 24013095 Fax: 040-24015031 |
| 2 | Agriculture University Jodhpur Website: http://www.au-ju.org Email: vcunivag@gmail.com | Mandor, Jodhpur-342304 | 0291--2570711 Fax: 0291-2570710 |
| 3 | Agriculture University Kota Website: http://aukota.org Email: vcaukota@gmail.com | Borkhera, Kota-324001 | 0744--2207212 |
| 4 | Anand Agricultural University Website: http://www.aau.in Email: vc@aau.in , vc_aau@yahoo.com Fax: 02692-261520 | Anand 388110, Gujarat | 02692-261273 |
| 5 | Assam Agricultural University Website: http://www.aau.ac.in Email: vc@aau.ac.in , kmbujarbaruah@rediffmail.com Fax: 0376-2340001 | Jorhat 785013, Assam | 0376-2340013 |
| 6 | Bidhan Chandra Krishi Viswavidyalaya Website: http://www.bckv.edu.in Email: bckvvc@gmail.com , sarojsanyal@yahoo.co.in Fax:03473-222275 | Mohanpur, Nadia-741252, West Bengal | 03473-222666 033-25879772 |
| 7 | Bihar Agricultural University Website: http://www.bausabour.ac.in Email: vcbausabour@gmail.com Fax:0641-2452604 | Bhagalpur 813210, Sabour, Bihar | 0641-2452606 |
| 8 | Birsa Agricultural University Website: http://www.baujharkhand.org Email: vc_bau@rediffmail.com Fax:0651-2450850 | Kanke, Ranchi-834006, Jharkhand | 0651-2450500 |
| 9 | Central Agricultural University Website: http://www.cau.org.in Email: snpuri04@yahoo.co.in , snpuri@rediffmail.com Fax:0385-2410414 | P.O. Box 23, Imphal-795004, Manipur | 0385-2415933 |
| 10 | Chandra Shekar Azad University of Agriculture & Technology Website: http://www.csauk.ac.in Email: vc@csauk.ac.in Fax:0512-2533808 | Kanpur-208002, Uttar Pradesh | 0512-2534155 |
| 11 | Chaudhary Charan Singh Haryana Agricultural University Website: http://www.hau.ernet.in Email: vc@hau.ernet.in Fax:01662-234952 | Hisar-125004, Haryana | 01662-231640, 284301 |

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| 12 | CSK Himachal Pradesh Krishi Vishwavidyalaya Website: http://www.hillagric.ac.in Email: vc@hillagric.ac.in Fax:01894-230465 | Palampur-176062, Himachal Pradesh | 01894-230521 |
| 13 | Chhattisgarh Kamdhenu Vishwavidyalaya Website: http://cgkv.ac.in Email: | Anjora ,Durg, Chhattisgarh | |
| 14 | Dr Balasaheb Sawant Konkan Krishi Vidyapeeth Website: www.dbskkv.org Email: vcbskkv@yahoo.co.in Fax:02358-282074 | Dapoli Distt, Ratnagiri 415 712, Maharashtra | 02358-282064 |
| 15 | Dr Panjabrao Deshmukh Krishi Vidyapeeth Website: http://www.pdkv.ac.in Email: vc@pdkv.ac.in Fax:0724-2258219 | Krishinagar, Akola-444104, Maharashtra | 0724-2258365 |
| 16 | Dr Yashwant Singh Parmar Univ of Horticulture & Forestry Website: http://www.yspuniversity.ac.in Email: vc@yspuniversity.ac.in , vcuhf@yahoo.com Fax:01792-252242 | Solan, Nauni-173230, Himachal Pradesh | 01792-252363 |
| 17 | Dr YSR Horticultural University Website: http://www.drysrhu.edu.in Email: vc@drysrhu.edu.in Fax: 08818-284223 | Adminstrative office, Venkataramannagudem, PB No. 7, West Godavari Dist., Tadepalligudem-534101 Andhra Pradesh | 08818-284311 |
| 18 | Govind Ballabh Pant University of Agriculture & Technology Website: http://www.gbpuat.ac.in Email: vcgbpuat@gmail.com Fax: 05944-233500 | Pantnagar-263145, Distt Udham Singh , Nagar , Uttaranchal | 05944-233333, 233500 |
| 19 | Guru Angad Dev Veterinary and Animal Science University Website: http://www.gadvasu.in Email: vijay_taneja@hotmail.com , vcgadvasu@gmail.com Fax:0161-2553340 | Ludhiana - 141004, Punjab | 0161-2553320, 2553360 |
| 20 | Indira Gandhi Krishi Vishwavidyalaya Website: www.igau.edu.in Email: vcigkv@gmail.com Fax:0771-2442302, 2443121 | Krishak Nagar, Raipur-492006, Chhattisgarh | 0771-2443419 |
| 21 | Jawaharlal Nehru Krishi Viswavidyalaya Website: http://www.jnkvv.nic.in Email: vst.vcnkvv@gmail.com Fax:0761-2681389 | Krishi Nagar, Adhartal Jabalpur-482004, Madhya Pradesh | 0761-2681706 |
| 22 | Junagadh Agricultural University Website: http://www.jau.in Email: vc@jau.in Fax:0285-2672004 | Univ. Bhavan, Motibagh Junagadh-362001, Gujarat | 0285-2671784 |

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| 23 | Karnataka Veterinary, Animal and Fisheries Sciences University Website: http://www.kvafsu.kar.nic.in Email: vcqvafsu@yahoo.co.in dekvafsub@yahoo.com , sskvafsu@yahoo.co.in Fax:08482- 245107 | Nandinagar, PB No 6, BIDAR 585401, Karnataka | 08482-245264 |
| 24 | Kerala Agricultural University Website: http://www.kau.edu Email: vc@kau.in , vicechancellorkau@gmail.com Fax:0487-2370019 | Vellanikara, Trichur 680656, Kerala | 0487-2371928, 2370034, 2438001 |
| 25 | Kerala University of Fisheries & Ocean Studies Website: http://www.kau.edu Email: kurup424@gmail.com | Panangad, Kochi-682506 Kerala | 0487- 2703782 2703781, 2700964 |
| 26 | Kerala Veterinary and Animal Sciences University Website: http://www.kcasu.ac.in Email: vc@kvasu.ac.in , vc.vetuny@gmail.com Fax: 0471-2550480 | Liason Office, Directorate of Dairy Development, Pattom, Thiruvananthapuram, 695004, Kerala | 0471-2550058 |
| 27 | Lala Lajpat Rai University of Veterinary & Animal Sciences Website: http://www.llruvas.edu.in/ Email: vc@llruvas.edu.in | Hisar, Haryana | 01662 289332 01662- 272002 |
| 28 | Nanaji Deshmukh Veterinary Science University Website: http://www.mppcvv.org Email: vcnduvs@gmail.com Fax: 0761-2620783 | South Civil Lines, Jabalpur-482001, Madhya Pradesh | 0761-2678007 |
| 29 | Maharana Pratap Univ. of Agriculture & Technology Website: http://www.mpuat.ac.in Email: vc@mpuat.ac.in Fax:0294-2470682 | Udaipur, Rajasthan 313001 | 0294-2471101 |
| 30 | Maharashtra Animal Science & Fishery University Website: http://www.mafsu.in Email: vcmatsu@gmail.com , cadaba_prasad@yahoo.co.in Fax:0712-2511282 | Seminary Hills, Nagpur-440006, Maharashtra | 0712-2511088 |
| 31 | Mahatma Phule Krishi Vidyapeeth Website: http://mpkv.mah.nic.in Email: vcmpkv@rediffmail.com Fax:02426-243302 | Rahuri-413722, Maharashtra | 02426-243208 |
| 32 | Manyavar Shri Kanshiram Ji University of Agriculture and Technology Website: http://www.mskjuat.edu.in/ Email: vc.mskjuat@gmail.com Fax:02426-243302 | Banda - 210001, Uttar Pradesh | 05192-221605 |
| 33 | Narendra Deva University of Agriculture & Technology Website: http://www.nduat.ernet.in Email: vc_nduat2010@yaho.co.in Fax:05270-262097 | Kumarganj, Faizabad -224229, Uttar Pradesh | 05270-262097, 262161 |

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| 34 | Navsari Agricultural University Website: http://www.nau.in Email: vc_2004@yahoo.co.in Fax:02673-284254 | Navsari-396450 Gujarat | 02673-283869 |
| 35 | Orissa Univ. of Agriculture & Technology Website: http://www.ouat.ac.in Email: ouat_dprou@yahoo.co.in , bsenapati1942@yahoo.com Fax:0674-2397780 | Bhubaneshwar-751003, Orissa | 0674-2397700 |
| 36 | Prof. Jayashankar Telangana State Agricultural University Website: www.pjtsau.ac.in Email: vcpjtsau@gmail.com Fax:040-24018653 | Admn. Office: Rajendranagar, Hyderabad - 500 030 | 040-24015122 (M):09849029245 |
| 37 | Punjab Agricultural University Website: http://www.pau.edu Email: vcpau@pau.edu Fax:0161-2402483 | Ludhiana-141004, Punjab | 0161-2401794 |
| 38 | Rajasthan University of Veterinary and Animal Sciences Website: http://rajuvas.org Email: vcrajuvas@gmail.com Fax: 0151-2549348 | Bijey Bhavan Place Complex (Pt Deen Dayal circle) Bikaner 334006 Rajasthan | 0151-2543419 |
| 39 | Rajendra Agricultural University Website: http://www.pusavarsity.org.in Email: : vcrau@sify.com Fax:06274-240255 | Pusa, Samastipur 848125, Bihar | 06274-240226 |
| 40 | Rajmata Vijayraje Sciendia Krishi Vishwa Vidyalaya Website: http://www.rvskvv.nic.in Email: vcrvskvv@gmail.com Fax: 0751-2467673 | Race Cource Road, Gwalior 474002 Madhya Pradesh | 0751-2467673 |
| 41 | Rani Laxmi Bai Central Agricultural University Website: Email: : ddgedn@icar.org.in Fax:011-25843932 | Jhansi, Uttar Pradesh | 011-25841760 |
| 42 | Sardar Vallabhbai Patel University of Agriculture and Technology Website: http://www.svbpm Meerut.ac.in Email: vc_agunivmeerut@yahoo.com Fax:0121-2888505 | Modipuram, Meerut - 250110 Uttar Pradesh | 0121-2888522, |
| 43 | Sardarkrushinagar-Dantiwada Agricultural University Website: http://www.sdau.edu.in Email: vc@sdau.edu.in Fax:02748-278261 | Sardar Krushinagar, Distt Banaskantha, Gujarat-385506 | 02748-278222 |

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| 44 | Sher-E-Kashmir Univ of Agricultural Sciences & Technology Website: http://www.skuast.org Email: vc@skuast.org Fax:0191-2262073 | Railway Road, Jammu 18009, J&K | 0191-2263714 |
| 45 | Sher-E-Kashmir Univ of Agricultural Sciences & Technology of Kashmir Website: http://www.skuastkashmir.ac.in Email: vc@skuastkashmir.ac.in , skuastkvc@gmail.com Fax:0194-2462160, 2461543 | Shalimar Campus, Shrinagar-191121, Jammu & Kashmir | 0194-2464028, 2462159 |
| 46 | Sri Karan Narendra Agriculture University Website: http://sknau.ac.in Email: nsrdsr@gmail.com , vc@sknau.ac.in Fax:0877-2249222 | Jobner-303329 | 0877-2248986 |
| 47 | Sri Venkateswara Veterinary University Website: http://www.svvu.edu.in Email: prabhakarvrao@yahoo.com Fax:0877-2249222 | Admn office, Regional Library Building, Tirupati-517502 | 0877-2248986 |
| 48 | Swami Keshwanand Rajasthan Agricultural University Website: http://www.raubikaner.org Email: vcrau@raubikaner.org Fax:0151-2250336 | Bikaner-334006, Rajasthan | 0151-2250443, 2250488 |
| 49 | Tamil Nadu Agricultural University Website: http://www.tnau.ac.in Email: vc@tnau.ac.in Fax:0422-2431672 | Coimbatore-641003, Tamil Nadu | 0422-2431788, 2431672 |
| 50 | Tamil Nadu Fisheries University Website: http://www.tnfu.org.in Email: | Nagapattinam-611 003, Tamil Nadu | 04365-253011 |
| 51 | Tamil Nadu Veterinary & Animal Science University Website: http://www.tanuvas.ac.in Email: vc@tanuvas.org.in , karanmgk@gmail.com Fax:0444-225551576 | Chennai-600051, Tamilnadu | 044-25551574, 25551575 |
| 52 | University of Agricultural Sciences, Bangalore Website: http://www.uasbangalore.edu.in Email: vc@uasbangalore.edu.in , knarayanagowda@yahoo.co.in Fax:080-23330277 | GKVK, Bengaluru-560065, Karnataka | 080-23332442 |
| 53 | University of Agricultural Sciences, Dharwad Website: http://www.uasd.edu Email: vc_uasd@rediffmail.com Fax:0836-2448349 | Dharwad-580005, Karnataka | 0836-2447783, |

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| 54 | University of Agricultural Sciences, Shimoga Website: http://www.uasbangalore.edu.in/asp/agriShimoga.asp Email: | Shimoga, Karnataka | |
| 55 | University of Horticultural Sciences Website: http://uhsbagalkot.edu.in/ Email: dandinbnm@gmail.com Fax: 08354 235152 | Sector No 60 Navanagar Bagalkot 587102 Karnataka | 08354 201310 |
| 56 | University of Agricultural Sciences Website: http://www.uasraichur.edu.in Email: vcuasraichur10@rediffmail.com Fax: 08532- 220444 | PB 329, Raichur – 584101 Karnataka | 08532-221444 |
| 57 | UP Pandit Deen Dayal Upadhaya Pashu Chikitsa Vigyan Vishwa Vidhyalaya evam Go Anusandhan Sansthan Website: http://www.upvetuniv.edu.in Email: singhambika1945@gmail.com , duvasuvc@gmail.com Fax:0565-2404819 | Mathura-281001 , Uttar Pradesh | 0565-2470199 |
| 58 | Uttarakhand University of Horticulture and Forestry Website: http://www.uuhf.ac.in/ Email: | Pauri Garhwal, Uttarakhand | 09412051976 |
| 59 | Uttar Banga Krishi Viswavidyalaya Website: http://www.ubkv.ac.in Email: vcubkv@gmail.com , vcubkv@rediffmail.com Fax:03582-270249 | P.O. Pundibari, Dist. Coach Bihar- 736165, West Bengal | 03582270141, 270013 |
| 60 | Vasantrao Naik Marathwada Agricultural University Website: http://www.mkv2.mah.nic.in Email: vcmau@rediffmail.com Fax:02452-223582 | Parbhani-431402, Maharashtra | 02452-223002 |
| 61 | West Bengal University of Animal & Fishery Sciences Website: http://www.wbuafscs.ac.in Email: wbuafs@wb.nic.in Fax:033-25571986 | 68 KB Sarani, Kolkata-700037, West Bengal | 033-25563450 |

OTHER INSTITUTIONS OF ICAR

ICAR Institutions, Deemed Universities, National Research Centres, National Bureau & Directorate/Project Directorates

Deemed Universities - 4

1. ICAR-Indian Agricultural Research Institute, New Delhi
2. ICAR-National Dairy Research Institute, Karnal
3. ICAR-Indian Veterinary Research Institute, Izatnagar
4. ICAR-Central Institute on Fisheries Education, Mumbai

Institutions - 51

1. ICAR-Central Island Agricultural Research Institute , Port Blair
2. ICAR-Central Arid Zone Research Institute, Jodhpur
3. ICAR-Central Avian Research Institute, Izatnagar
4. ICAR-Central Inland Fisheries Research Institute, Barrackpore
5. ICAR-Central Institute Brackishwater Aquaculture, Chennai
6. ICAR-Central Institute for Research on Buffaloes, Hissar
7. ICAR-Central Institute for Research on Goats, Makhdoom
8. ICAR-Central Institute of Agricultural Engineering, Bhopal
9. ICAR-Central Institute of Arid Horticulture, Bikaner
10. ICAR-Central Institute of Cotton Research, Nagpur
11. ICAR-Central Institute of Fisheries Technology, Cochin
12. ICAR-Central Institute of Freshwater Aquaculture, Bhubneshwar
13. ICAR-Central Institute of Research on Cotton Technology, Mumbai
14. ICAR-Central Institute of Sub Tropical Horticulture, Lucknow
15. ICAR-Central Institute of Temperate Horticulture, Srinagar
16. ICAR-Central Institute on Post harvest Engineering and Technology, Ludhiana
17. ICAR-Central Marine Fisheries Research Institute, Kochi
18. ICAR-Central Plantation Crops Research Institute, Kasargod
19. ICAR-Central Potato Research Institute, Shimla
20. ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore
21. ICAR-Central Research Institute of Dryland Agriculture, Hyderabad
22. ICAR-Central Rice Research Institute, Cuttack
23. ICAR-Central Sheep and Wool Research Institute, Avikanagar, Rajasthan
24. ICAR-Central Soil and Water Conservation Research & Training Institute, Dehradun
25. ICAR-Central Soil Salinity Research Institute, Karnal
26. ICAR-Central Tobacco Research Institute, Rajahmundry
27. ICAR-Central Tuber Crops Research Institute, Trivandrum
28. ICAR-ICAR Research Complex for Eastern Region, Patna
29. ICAR-ICAR Research Complex for NEH Region, Barapani
30. ICAR-ICAR Research Complex for Goa, Ela, Old Goa, Goa
31. ICAR-Indian Agricultural Statistics Research Institute, New Delhi
32. ICAR-Indian Grassland and Fodder Research Institute, Jhansi
33. ICAR-Indian Institute of Agricultural Biotechnology, Ranchi
34. ICAR-Indian Institute of Horticultural Research, Bengaluru
35. ICAR-Indian Institute of Natural Resins and Gums, Ranchi
36. ICAR-Indian Institute of Pulses Research, Kanpur
37. ICAR-Indian Institute of Soil Sciences, Bhopal
38. ICAR-Indian Institute of Spices Research, Calicut
39. ICAR-Indian Institute of Sugarcane Research, Lucknow
40. ICAR-Indian Institute of Vegetable Research, Varanasi
41. ICAR-National Academy of Agricultural Research & Management, Hyderabad
42. ICAR-National Biotic Stress Management Institute, Raipur
43. ICAR-National Institute of Abiotic Stress Management, Malegaon, Maharashtra
44. ICAR-National Institute of Animal Nutrition and Physiology, Bengaluru
45. National Institute of Research on Jute & Allied Fibre Technology, Kolkata

46. ICAR-National Institute of Veterinary Epidemiology and Disease Informatics, Hebbal, Bengaluru
47. ICAR-Sugarcane Breeding Institute, Coimbatore
48. ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora
49. ICAR-Central Institute for Research on Cattle, Meerut, Uttar Pradesh
50. ICAR-National Institute of High Security Animal Diseases, Bhopal
51. ICAR-Indian Institute of Maize Research, New Delhi

National Research Centres - 17

1. ICAR-National Centre for Agril. Economics & Policy Research, New Delhi
2. ICAR-National Centre for Integrated Pest Management, New Delhi
3. ICAR-National Research Centre for Agroforestry, Jhansi
4. ICAR-National Research Centre for Banana, Trichi
5. ICAR-National Research Centre for Citrus, Nagpur
6. ICAR-National Research Centre for Grapes, Pune
7. ICAR-National Research Centre for Litchi, Muzaffarpur
8. ICAR-National Research Centre for Pomegranate, Solapur
9. ICAR-National Research Centre on Camel, Bikaner
10. ICAR-National Research Centre on Equines, Hisar
11. ICAR-National Research Centre on Meat, Hyderabad
12. ICAR-National Research Centre on Mithun, Medziphema, Nagaland
13. ICAR-National Research Centre on Orchids, Pakyong, Sikkim
14. ICAR-National Research Centre on Pig, Guwahati
15. ICAR-National Research Centre on Plant Biotechnology, New Delhi
16. ICAR-National Research Centre on Seed Spices, Ajmer
17. ICAR-National Research Centre on Yak, West Kameng

National Bureaux - 6

1. ICAR-National Bureau of Plant Genetic Resources, New Delhi
2. ICAR-National Bureau of Agriculturally Important Micro-organisms, Mau, Uttar Pradesh
3. ICAR-National Bureau of Agriculturally Important Insects, Bengaluru
4. ICAR-National Bureau of Soil Survey and Land Use Planning, Nagpur
5. ICAR-National Bureau of Animal Genetic Resources, Karnal
6. ICAR-National Bureau of Fish Genetic Resources, Lucknow

Directorates/Project Directorates - 22

1. ICAR-Directorate of Rice Research, Hyderabad
2. ICAR-Directorate of Wheat Research, Karnal
3. ICAR-Directorate of Oilseed Research, Hyderabad
4. ICAR-Directorate of Seed Research, Mau
5. ICAR-Directorate of Sorghum Research, Hyderabad
6. ICAR-Directorate of Groundnut Research, Junagarh
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8. ICAR-Directorate of Rapeseed & Mustard Research, Bharatpur
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10. ICAR-Directorate on Onion and Garlic Research, Pune
11. ICAR-Directorate of Cashew Research, Puttur
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19. ICAR-Directorate of Poultry Research, Hyderabad
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| Kollam | C. Ajoy | 0474 2794911 | 9496003214 | dio-klm@prd.kerala.gov.in |
| Pathanamthitta | C. Manilal | 0468 2222657 | 9496003213 | dio-pta@prd.kerala.gov.in |
| Idukki | N.P. Santhosh | 0486 2233036 | 9496003211 | dio-idk@prd.kerala.gov.in |
| Alappuzha | T.C. Chandrahasan | 0477 2251349 | 9496003212 | dio-alp@prd.kerala.gov.in |
| Kottayam | | 0481 2562558 | 9496003209 | dio-ktm@prd.kerala.gov.in |
| Ernakulam | A.A. Nijas Jewel | 0484 2354208 | 9496003208 | dio-ekm@prd.kerala.gov.in |
| Thrissur | V.R. Santhosh | 0487 2360644 | 9496003207 | dio-tcr@prd.kerala.gov.in |
| Palakkad | V.P. Sulabhakumari | 0491 2505329 | 9496003206 | dio-pgt@prd.kerala.gov.in |
| Malappuram | C. Aiyappan | 0483 2734387 | 9496003205 | dio-mpm@prd.kerala.gov.in |
| Kozhikode | K.T. Sekharan | 0495 2370225 | 9496003203 | dio.prd@gmail.com |
| Wayanad | K.P. Abdulkhadar | 04936 202529 | 9496003246 | dio-wyd@prd.kerala.gov.in |
| Kannur | E.K. Padhmanabhan | 0497 2700231 | 9496003202 | dio-knr@prd.kerala.gov.in |
| Kasaragod | E.V. Sugathan | 04994 255145 | 9496003201 | dio-kgd@prd.kerala.gov.in |
| Dy. Director (New Delhi) | Dr. C. Venugopal | 011-23343424 | 8130430317 | |

IMPORTANT WEBSITES

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| 1. Department of Agriculture | www.karshikakeralam.gov.in |
| | www.keralaagriculture.gov.in |
| 2. Farm Information Bureau - | www.fibkerala.gov.in |
| 3. Department of Animal Husbandry- | www.ahd.kerala.gov.in |
| 4. Dairy Development Department | www.dairy.kerala.gov.in |
| 5. Department of Soil Conservation- | www.soilconsnetkerala.gov.in |
| 6. Agriculture University - | www.kau.edu |
| 7. Veterinary University - | www.kvasu.ac.in |
| 8. Fisheries Department - | www.fisheries.kerala.gov.in |
| 9. Environment Department - | www.imdtvm.gov.in |
| 10. National Horticultural Mission - | www.nhm.nic.in |
| 11. Kissan Kerala - | www.kissankerala.net |

AGRICULTURAL RELATED PROGRAMMES THROUGH RADIO AND TV

| Meida | Programme | Day | Time |
|-----------------|----------------------|---|------------------|
| All India Radio | Vayalum Veedum | Monday to Friday | 6.50 pm |
| | Agricultural News | Every Day | 7.05 am |
| Ananthapuri FM | Njattuvela | Monday, Tuesday, Wednesday Thursday, | 6.00 pm |
| Doordarsan | Krishidarsan | Monday to Friday | 5.30 pm |
| | Noorumeni | Sunday | 9.30 am |
| Asianet | Kissan Krishideepam | Saturday | 7.30 am |
| | | Sunday | 7.30 am |
| Asianet News | Kissan Krishideepam | Monday | 4.30 pm |
| Jaihind | Mannum Manushyanum | Sunday | 9.30 am |
| | | Saturday | 6 am |
| Jeevan | Harithakeralam | Monday to Friday | 7.30 am |
| Mathrubhumi | Krishibhoomi | Monday to Friday | 3.30 pm, 6.30 am |
| Manorama | Nattupacha | Saturday | 5.30 pm |
| Media One | Njaattuvela | Monday, Tuesday | 4.00 pm |
| Kaumudi TV | Haritham Sundaram | Sunday | 12.35 pm |
| | | Monday, | 4 pm |
| | | Tuesday | 7.35 pm |
| | | Friday | 8 pm |
| | | Saturday | 10 pm |
| Janam | | Sunday | 1.30 pm |

DATES TO REMEMBER

| JANUARY | MAY | SEPTEMBER |
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STATE GOVERNMENT HOLIDAYS-2018

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|-------|----|--|-----------|
| Jan | 2 | Mannam Jayanthi | Tuesday |
| Jan | 26 | Republic Day | Friday |
| Feb | 13 | Sivarathri | Tuesday |
| March | 29 | Maundy Thursday | Thursday |
| March | 29 | Good Friday | Friday |
| April | 1 | Easter | Sunday |
| April | 14 | Dr. B.R. Ambedkar Jayanthi, Vishu | Saturday |
| April | 15 | Vishu | Sunday |
| May | 1 | May Day | Tuesday |
| June | 15 | Id-ul-fitr (Ramzan)* | Friday |
| Aug | 11 | Karkidakavavu | Saturday |
| Aug | 15 | Independence Day | Wednesday |
| Aug | 22 | Id-ul-Ad-ha (Bakrid)* | Wednesday |
| Aug | 24 | First Onam | Friday |
| Aug | 25 | Thiruvonam | Saturday |
| Aug | 26 | Third Onam | Sunday |
| Aug | 27 | 4 th Onam, Sreenarayana Guru Jayanthi | Monday |
| Aug | 28 | Ayyankali Jayanthi | Tuesday |
| Sep | 2 | Sreekrishna Jayanthi | Sunday |
| Sep | 20 | Muharam | Thursday |
| Sep | 21 | Sreenarayana Guru Samadhi | Friday |
| Oct | 2 | Gandhijayanthi | Tuesday |
| Oct | 18 | Mahanavami | Thursday |
| Oct | 19 | Vijayadhasami | Friday |
| Nov | 6 | Deepavali | Tuesday |
| Nov | 20 | Nabidhinam | Tuesday |
| Dec | 25 | Christmas | Tuesday |

* Subject to change depending on the sighting of the Moon.

ഞാറ്റുവേല കലണ്ടർ

| ഞാറ്റുവേല | ഇംഗ്ലീഷ് മാസം | മലയാളമാസം |
|--------------|------------------------|--------------|
| ഉത്രാടം | January 11, 7:16 AM | ധനു 27 |
| തിരുവോണം | January 24, 9:29 AM | മകരം 10 |
| അവിട്ടം | February 6, 12:45 PM | മകരം 23 |
| ചതയം | February 19, 5:12 PM | കുംഭം 7 |
| പുരുരുട്ടാതി | March 04, 11:35 PM | കുംഭം 20 |
| ഉത്യട്ടാതി | March 18, 8:01 AM | മീനം 4 |
| രേവതി | March 31, 6:51 PM | മീനം 17 |
| അശ്വതി | April 14, 8:13 AM | മേടം 1 |
| ഭരണി | April 27, 11:59 PM | മേടം 14 |
| കാർത്തിക | May 11, 6:13 AM | മേടം 28 |
| രോഹിണി | May 25, 2:20 PM | ഇടവം 11 |
| മകയിരം | June 08, 12:17 PM | ഇടവം 25 |
| തിരുവാതിര | June 22, 11:11 AM | മിഥുനം 8 |
| പുണർതം | July 06, 10:51 AM | മിഥുനം 22 |
| പുയം | July 20, 10:17 AM | കർക്കിടകം 4 |
| ആയില്യം | August 03, 9:16 AM | കർക്കിടകം 18 |
| മകം | August 17, 6:50 AM | ചിങ്ങം 1 |
| പൂരം | August 31, 2:52 AM | ചിങ്ങം 15 |
| ഉത്രം | September 13, 8:41 PM | ചിങ്ങം 28 |
| അത്തം | September 27, 12:14 PM | കന്നി 11 |
| ചിത്തിര | October 11, 1:13 AM | കന്നി 25 |
| ചോതി | October 24, 11:43 AM | തുലാം 7 |
| വിശാഖം | November 06, 7:54 PM | തുലാം 20 |
| അനിഴം | November 20, 1:53 AM | വൃശ്ചികം 4 |
| തൃക്കേട്ട | December 03, 6:15 AM | വൃശ്ചികം 17 |
| മൂലം | December 16, 9:09 AM | ധനു 1 |
| പുരാടം | December 29, 11:26 AM | ധനു 14 |

KERALA AT A GLANCE

Location : `North Latitude Between 8° - 18' and 12° - 48'
East Longitude Between 74° - 52' and 77° - 22'

| | | |
|--|---|-----------------------|
| Area | - | 38,863 Sq.Km. |
| Percentage of Area to the area of Indian Union | - | 1.18 |
| Length of Coastal Line | - | 580 KM |
| Highest Peak | - | Anamudi (2694 metres) |
| West flowing rivers | - | 41 Nos |
| East flowing rivers | - | 3 Nos |
| Districts | - | 14 Nos |
| Taluks | - | 75 Nos |
| Revenue Village | - | 1535 Nos |
| Panchayat | - | 941 Nos |
| Corporations | - | 6 Nos |
| Municipalities | - | 86 Nos |
| M.L.A.s Elected | - | 140 Nos |
| Nominated | - | 1 No |
| M.P.s Lok Sabha | - | 20 Nos |
| Nominated | - | 1 No |
| Rajya Sabha | - | 9 Nos |
| Community Development Blocks | - | 152 Nos |

Population 2011 Census

| | | |
|------------------------------------|---|--------|
| Total population (lakhs) | - | 334.06 |
| Male population (lakhs) | - | 160.27 |
| Female population (lakhs) | - | 173.78 |
| Rural population (lakhs) | - | 174.71 |
| Urban population (lakhs) | - | 159.34 |
| Increase of population (%) | - | 4.9 |
| Density per sq.km. | - | 860 |
| Sex ratio (Females per 1000 males) | - | 1084 |
| Literacy(%) | - | 94% |
| Male Literacy(%) | - | 96.1% |
| Female Literacy (%) | - | 92.1% |

* Source : www.kerala.gov.in

Livestock Population (2012 Livestock Census)

| | | |
|---------------|---|---------|
| Cattle | - | 132863 |
| Buffaloes | - | 10227 |
| Goat | - | 124608 |
| Pig | - | 5578 |
| Sheep | - | 450 |
| Fowls | - | 2171114 |
| Duck | - | 170926 |
| Other Poultry | - | 86157 |
| Rabbits | - | 23055 |

Land Use (2015-2016) Area in hectares

| | | |
|---|---|---------|
| Total Geographical Area | - | 3886287 |
| Forests | - | 1081509 |
| Land put to non-Agri use | - | 419128 |
| Barren and uncultivable land | - | 12952 |
| Permanent pastures and other grazing land | - | 5 |
| Land under miscellaneous tree crops | - | 2653 |
| Cultivable Waste | - | 100676 |
| Fallow other than current fallow | - | 54741 |
| Current fallow | - | 65329 |
| Net area sown | - | 2042881 |
| Area sown more than once | - | 581743 |
| Total cropped area | - | 2624624 |

Source : Department of Economics & Statistics

OPERATIONAL HOLDINGS (2010-2011)

| Sl.No. | Size of Holding (ha) | Number | Area(ha) |
|--------|----------------------|----------------|----------------|
| 1. | Below 1.00 | 6580000 | 886000 |
| 2. | 1.00-1.99 | 180000 | 282000 |
| 3. | 2.00-3.99 | 57000 | 159000 |
| 4. | 4.00-9.99 | 12000 | 64000 |
| 5. | 10.00 and above | 2000 | 120000 |
| | Total | 6831000 | 1511000 |

Source: Directorate of Economics and Statistics

District Wise Number & Area of Individual operational holdings(2000-01)

| District | Number | Area(ha) | Area per holding |
|--------------------|----------------|----------------|------------------|
| Thiruvananthapuram | 750903 | 86352 | 0.11 |
| Kollam | 580297 | 90187 | 0.15 |
| Pathanamthitta | 296818 | 66771 | 0.22 |
| Alappuzha | 477343 | 67161 | 0.14 |
| Kottayam | 418736 | 123984 | 0.29 |
| Idukki | 259615 | 164849 | 0.63 |
| Ernakulam | 647395 | 120052 | 0.18 |
| Thrissur | 684740 | 99369 | 0.14 |
| Palakkad | 499524 | 145484 | 0.29 |
| Malappuram | 690472 | 132858 | 0.19 |
| Kozhikode | 638351 | 110586 | 0.17 |
| Wayanad | 174416 | 90456 | 0.51 |
| Kannur | 485221 | 127115 | 0.26 |
| Kasargod | 226958 | 85592 | 0.37 |
| State | 6603831 | 1425224 | 0.23 |

Source: Directorate of Economics and Statistics

Area, Production and Productivity of Principal crops

| Sl. No. | Crops | Area (ha) 2015-16 | Production (MT) 2015-16 | Productivity (kg/Ha) 2015-16 |
|---------|-----------------|-------------------|-------------------------|------------------------------|
| 1 | Rice | 196870 | 549275 | 2790 |
| 2 | Pulses | 3764 | 4263 | 1133 |
| 3 | Pepper | 85948 | 42132 | 490 |
| 4 | Ginger | 4986 | 22044 | 4421 |
| 5 | Turmeric | 2603 | 7112 | 2732 |
| 6 | Cardamom | 39730 | 19500 | 491 |
| 7 | Areacanut | 99126 | 132453 | 1336 |
| 8 | Banana | 59835 | 536155 | 8961 |
| 9 | Other Plantains | 57683 | 411626 | 7136 |
| 10 | Cashew nut | 43090 | 24733 | 574 |
| 11 | Tapioca | 69405 | 2662610 | 38363 |
| 12 | Coconut | 790223 | 5873 | 7432 |
| 13 | Coffee | 84987 | 69230 | 815 |
| 14 | Tea | 30205 | 57898 | 1917 |
| 15 | Rubber | 550840 | 438630 | 796 |

Source: Directorate of Economics and Statistics

AGRICULTURE

IMPORTANT SCHEMES

Rice Development

Total Outlay Rs.7000.00 lakhs

In the rice development scheme major thrust is given for the promotion of fallow land cultivation and group based paddy promotion concentrated in the major rice growing tracts of the State under seven special agriculture zones with natural endowments for augmenting rice productivity. The ultimate objective would be to increase the area under rice to 3 lakhs ha by the end of 13 th five year plan. An outlay of Rs.70 crores is provided during 2017-18. The support from RKVY will be integrated with state plan components to fill the critical gaps. An amount of Rs.300 lakh is set apart for promoting group farming activities of the active Padasekhara samithies. The amount will be released to Padasekhara samithies based on a transparent criterion for promoting group farming and facilitating a payment system. The padasekharams will be revitalised and encouraged to set up rice mills. GAP certification assistance will also be provided to padasekharams. The rice development scheme will be restructured to make it remunerative to farmers with higher remunerative price, encouraging GAP certified domestic marketing etc. The support of Rs. 1500/ ha will be linked to organic inputs, certification and biocontrol agents. For the promotion of fallow land cultivation an amount of Rs. 1090 lakhs is earmarked. Rice fallows will be brought under sustainable cultivation in a phased manner in project mode with the active involvement of MNREGS and Kudumbasree.

The possibility of raising double crop from single cropped paddy lands and triple crop from double cropped lands will be explored in potential areas to increase the gross cultivated area. Upland cultivation will be expanded considering the scarcity of wet lands for which an amount of Rs. 350 lakhs is set apart. Support for group formation of upland cultivators and fallow land cultivators will be provided.

Special agricultural zones for paddy

Special Agriculture Zones for Paddy for focused interventions will be established in 7 areas viz. Kuttanad, Onattukara, Pokkali, Kole, Palakkad, Wayanad and Kaipad. The assistance to Paddy Development Agencies will be provided on project basis. In order to ensure the availability of certified seeds suitable to the locality Registered Seed Growers' Programme (RSGP) will be reintroduced.

Rice Innovation Fund'

An amount of Rs.262.00 lakhs is set apart as 'Rice Innovation Fund' for introducing new, ecofriendly and sustainable technologies aimed at improving paddy production and for undertaking 'Rice Year' programmes on a project mode from the identified 100 activities as part of rice year. Out of this an amount of Rs. 50 lakhs to be used for organizing campaigns at block level.

Mini Rice mills and parboiling units

Mini Rice mills and parboiling units to undertake local processing and distribution of rice and rice products in potential padasekharams and special mini rice mills to process specialty rice varieties are also proposed to be established. A pilot mini parboiling unit developed at Indian Institute of crop processing, Tanjavur will be supported. The operational support will be used for facilitating implementation of the scheme including collection of success stories. Three technical officers will be hired at district level in Palakkad, Kuttanad and Kole areas to support Deputy Directors.

The co-operatives involved in rice production will be encouraged for certification and for setting up of rice mills. The ADAT Co-operative society model will be encouraged. To encourage and sustain paddy cultivation in urban areas including education institutions an amount of Rs.100.00 lakhs is earmarked.

Kera gramam under Coconut Development

Total Outlay Rs.4500.00 lakhs During 2017-18, an amount of Rs.4500 lakhs is provided for undertaking activities like cultural operations including INM & IPM, application of organic manure, distribution of climbing device, establishment of coconut nurseries, irrigation units etc. Operational cost to Krishibhavans for programme implementation including registration of samithy, trainings, meetings etc. is also included. The scheme will be implemented in selected panchayats. The institutional development at Panchayath level for convergence of various scheme implemented by CDB, LSGI, and the Department of Agriculture will be supported additionally. An amount of Rs.10 lakhs each will be provided for strengthening the activities of the Panchayat level Kera Apex Societies where minimum area under coconut in the panchayat is 500 ha. The support from RKVY will be linked with the scheme to cover more panchayats in coconut producing areas. Model farm plans will be prepared and additional assistance will be ensured from the plan of LSGIs.

It is proposed to promote scientific cultivation of high yielding dwarf and semi-tall varieties suited for tender coconut, culinary coconut and copra, replacing unproductive, senile and diseased palms in contiguous areas. The provision under the component will be utilized for establishing model farms of high yielding dwarf as well as hybrid coconut varieties. A model farm should have a minimum size of 0.20 ha.

Special Agricultural Zones

Total Outlay Rs.1000.00 lakhs The concept of Special Agricultural Development Zones (SAZ) is proposed for convergence based result oriented scheme preparation and implementation for focused project based interventions in identified potential zones. 1-5 blocks in contiguous areas based on minimum area under the selected crop, potential for production, soil and climatic conditions etc will be used to develop criteria for the selection of zones in each district. Production, marketing, processing, value addition, Storage, irrigation etc will be covered for each zone. Interest free loan will be provided to farmers of each SAZ and the interest subsidy will be met by Government. The facilities proposed in each SAZ are Agro Service Centres including soil testing labs and call centre, plant health clinics, weather stations and advisories, biopharmacy including on farm production units, planting materials production units, markets, processing and value addition units, irrigation support, credit interventions if required, extension including ICT based initiatives, community Radio, farmers markets supported by LSGIs, procurement system for surplus production, promotion of farmer technology development and training to farmers on convergence mode. A separate monitoring system to be introduced for projects in SAZ. The SAZ suggested for rice, vegetables, banana, coconut, floriculture and tribal agriculture.

The SAZ proposed are

Rice – Kuttanad, Kole, Onattukara, Pokkali, Palakkad, Kaipad and Wayanad.

Vegetables- Devikulam, Kanjikuzhy, Pazhayannur and Chitoor-Kollengode.

Banana- Thrissur

Flowers -Wayanad

Coconut- Kozhikkode

The crop promotion activities or value addition activities in the special agricultural zones would be undertaken under the respective schemes. An amount of Rs.1000.00 lakhs is proposed for establishing infrastructure and filling critical gaps. Assistance for farmers is not included under Rs. 10 crores

earmarked for SAZ. A separate monitoring frame work will be developed for the activities proposed under SAZ. A separate DPR for Rs.10 crores would be prepared for approval. In the DPR the projected support for crop development activities from other schemes implemented in the SAZ will also be shown for monitoring the deliverables.

“Location specific schemes including MILLET VILLAGE in Attappady

It is proposed to promote cultivation of millets like ragi (finger millet), foxtail millet, little millet etc., oil seeds crops like ground nut and sesamum and sugarcane in potential areas. It is proposed to implement a scheme for “Millet Village”, for 3 years starting in the year 2017-18 to 2019-20, in Attappadi in collaboration with SC/ST department for which this project has been formulated. The assistance is provided for quality seeds and for other expenses like land preparation, irrigation etc. It is proposed to promote crop production activities in tribal lands so as to ensure food and nutritional security to tribal population. Conservation of traditional varieties and traditional cultivation practices is also envisaged through the programme. Activities will be taken up on a project mode in coordination with Tribal Department. A special project for Attappady will be supported covering traditional crops from production to marketing. The assistance is also for the establishment of modern production units of jaggery for the promotion of Travancore jaggery, Marayursarkkara etc. An amount of Rs. 330 lakhs is set apart for the project. Additional funds will be provided to tribal agriculture from other schemes, RKVY and SHM.

Development of Fruits, Flowers and Medicinal plants

Total Outlay Rs.675.00 lakhs

It is proposed to initiate a new project for the development of fruits, flowers and medicinal plants and an amount of Rs. 675 lakhs is set apart during 2017-18. For comprehensive fruit development programme covering banana through area expansion including supply of planting material, an amount of Rs. 275 lakhs is earmarked. The project will be implemented in Thrissur district by the Department of Agriculture in association with VFPC. A Special Agricultural Zone (SAZ) for banana will be developed in Thrissur district which will be linked to agro park on fruits. It is proposed to establish Special Agricultural Zone for flowers in Idukki and Wayanad district for the promotion of flowers like orchids, anthurium, marigold, heliconia, jasmine, gerbera and others. Assistance provided for the establishment of floriculture units, establishment of new floriculture nurseries including tissue culture units and for establishment of grading, packing centres. Strengthening of Biotechnology and Model Floriculture Centre, Kazhakuttom and establishment of decentralized production/hardening centres will be promoted on a hub and spoke mode using the funds provided separately. An amount of Rs.300 lakhs is earmarked for this scheme. The funds from RKVY and SHM will be integrated with the project. The project for promotion of medicinal plants is proposed to be implemented in Thrissur, Malappuram, Wayanad, Idukki and Palakkad districts. An amount of Rs. 100 lakhs is earmarked for training & awareness, area expansion through clusters, setting up of collection centres, PHM units and for transportation and marketing facilities. The scheme will be implemented through the Department of Agriculture. The scheme implemented with the support of Medicinal Plants Board will be integrated with the project. Arrangements for market tie up will be made with CAREKERAM, Koratty and other Ayurvedic pharmaceuticals.

Central Sector Scheme -Sub Mission on Agriculture Mechanization (SMAM)

Scheme Sub Mission on Agriculture Mechanization(SMAM) under National Mission on Agricultural Extension and Technology (NAMET) comes under the scheme Krishi Unnathi Yojana . The total outlay of the scheme is 2500.0962 Lakhs in which GOI share is 1569.2819 and GOK Share is 930.8146 Lakhs. The scheme mainly intends to promote the usage of farm mechanization and increase the ratio of farm power to cultivable unit area.

1. **Mission Objectives** The scheme envisages accomplishing the following objectives.

- Increasing the reach of farm mechanization to small and marginal farmers and to the regions where availability of farm power is low;
- Promoting Custom Hiring Centres to offset the adverse economies of scale arising due to small landholding and high cost of individual ownership;
- Creating hubs for hi-tech & high value farm equipments;
- Creating awareness among stakeholders through demonstration and capacity building activities;

3. Mission Components

- Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration.
- Demonstration, Training and Distribution of Post-Harvest technology.
- Financial Assistance for Procurement of Agricultural Machinery and Equipment .:
- Establish Farm Machinery Banks for Custom Hiring: Provides suitable financial assistance to establish Farm Machinery Banks for Custom Hiring for appropriate locations and crops.
- Establish Hi-Tech, High Productive Equipment Hub for Custom Hiring : Provides financial assistance to set up hi-tech machinery hubs for high value crops like sugarcane, cotton etc.
- Promotion of Farm Mechanization in Selected Villages: Provides financial assistance to promote appropriate technologies and to set up Farm Machinery Banks in identified villages in low mechanized states.
- Financial Assistance for Promotion of Mechanized Operations /hectare Carried out Through Custom Hiring Centres.

Bio diversity and local germ plasm conservation and promotion(New Scheme)

Total Outlay Rs.250.00 lakhs It is proposed to conserve the traditional and indigenous varieties available in different crops, including paddy and millets, especially in tribal habitats by providing assistance for cultivation and multiplication of seeds of these varieties by tribals, local farmer clusters, NGOs and other organizations. An amount of Rs.10 lakhs is provided for seed multiplication. Moreover, assistance of Rs.10,000/ha is provided for the cultivation of such traditional varieties. Cultivation in an area of 400 ha is targeted during 2017-18. Provision under the scheme would also be utilized for procurement and distribution of seeds of these traditional varieties for promotion of cultivation in other areas and districts. The outlay under the scheme would also be utilised for establishment of a Modern Seed Bank for conservation of traditional and other varieties of different crops for which an amount of Rs.200 lakhs is earmarked.

KARSHAKA PENSION SCHEME FOR SMALL AND MARGINAL FARMERS

The state government is implementing monthly pension scheme for small and marginal farmers above 60 years of age whose major source of livelihood is agriculture. Farmers enrolled will be given monthly pension @ Rs1000/-.

VEGETABLE DEVELOPMENT PROGRAMME 2017-18

The Comprehensive Vegetable Development Programme is implemented with an objective of attaining self sufficiency in vegetable production in the state. The total outlay for the scheme is Rs. 79 crores.

To achieve self sufficiency in vegetables a massive programme was launched during 2012-13 which is continuing this year also.

Homestead Cultivation – Rs. 500 Lakhs

The major components are for encouraging homestead cultivation of vegetables. Vegetable seedkits will be distributed through school students and Krishi Bhavans.

Promotion of Urban Cluster – Rs. 850 Lakhs

For encouraging Terrace Vegetable Cultivation in Corporations and Municipalities growbags will be supplied.

Vegetable Cultivation through Institutions – Rs. 300 Lakhs

For promoting vegetable cultivation in educational and other institutions.

Cluster Development in Districts – Rs. 1,848/- Lakhs

For promoting commercial cultivation of vegetables through farmer clusters.

Apart from these components, assistance for demonstration of micro-nutrients, promotion of tubers and pulses, Establishment of nurseries, Development support to graded clusters, Block Level federated organizations, Rain shelter, Trial on hybrids and micro irrigation with fertigation will also be provided through the scheme.

Establishment of Nurseries – Rs. 200 Lakhs

Block Level nurseries will be established in selected blocks through the Block Level Federated Organizations. Nurseries established by the Hill Area Development Agency and State Horticulture Mission will also be considered. The nurseries are established to make the organizations sustainable over a period of time Rs. 200 lakhs is provided for this purpose.

Additional Support to best performing Clusters (100 Lakhs)

Clusters Development is the key component in the Vegetable Development Programme initiative of the state. For additional support to best performing 'A' grade clusters, Rs 100 lakhs is allotted.

Block Level Federated Organizations (300 Lakhs)

Assistance will be provided to Block Level Federated Organizations for infrastructure development and operational support.

Rain Shelter (700 Lakhs)

It is proposed to give financial assistance for construction of 1400 rain shelters of 100 sq. meter area all over the state. The financial assistance is Rs. 50,000/- unit.

Micro Irrigation with Fertigation

Micro irrigation cum fertigation units will be installed in a minimum of 0.2 ha (50 cents) area for open cultivation of vegetables. 1334 such units are envisaged with an assistance of Rs. 30,000/- units. **Rs. 400 lakhs** is set apart for this including block level training programmes.

**SELECTED INDICATORS IN AGRICULTURAL SECTOR
KERALA AND INDIA**

| SI.No. | Item | Unit | Kerala | India |
|--------|---|----------------|----------|------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Geographical Area | '000 Sq.Km. | 38.86 | 3166 |
| 2. | Population (2011 Census) | Lakhs. | 334 | 12102 |
| 3. | Males (As a % of Total population- 2011 Census) | | 48 | 51.54 |
| 4. | Females (As a % of Total population- 2011 Census) | | 52 | 48.46 |
| 5. | Rural Population (As a % of Total population- 2011 Census) | | 52.28 | 68.84 |
| 6. | Urban Population (As a % of Total population- 2011 Census) | | 47.72 | 31.16 |
| 7. | 2001-2011 Decadal Growth of Population | Per cent | 4.86 | 17.64 |
| 8. | Density of Population/Sq. km.(2011) | No. | 859 | 382 |
| 9. | Sex Ratio - Female/1000 Male(2011) | " | 1084 | 940 |
| 10. | Growth rate of population (2001 - 2011) | % | 4.86 | 17.64 |
| 11. | Literacy Rate (2011) | % | 93.91 | 74.04 |
| 12. | Per capita income at current prices (2005-06) | Rs. | 30668 | 17978 (2001-02) |
| 13. | Percentage share of State Income from agriculture (2006-07) % | | 14.55 | |
| 14. | Gross cropped area (2009-10) | Lakh ha. | 26.69 | 1958 (2007-08) |
| 15. | Net area sown (2009-10) | " | 20.79 | 1408 (2007-08) |
| 16. | Net area sown as percentage to geographical area (2009-10)% | | 53.50 | 44.47 (2007-08) |
| 17. | Area under rice (2014-14) | Lakh ha. | 1.98 | 418.5 (2009-10)* |
| 18. | Annual growth rate in area of foodgrain (2001-02) | % | -5.85 | 10.6 |
| 19. | Per capita food grain availability (2009) | kg./annum | | 162.1 |
| 20. | Food grain production (2014-15) | Million Tonnes | | 252* |
| 21. | Production of rice (2014-15) | Lakh tonnes | 5.62 | 1054.8 * |
| 22. | Productivity of rice (2014-15) | kg/ha. | 2837 | 2391 * |
| 23. | Net area irrigated (2010-11) | Lakh.ha | | 636.01 (2010-11) |
| 24. | Fertilizer consumption (2014-15) | '000 tonnes | | 25581.3 |
| 25. | Number of cattle (2012 census) | Lakh No. | 13.28 | |
| 26. | Production of milk (2016-17) | Lakh tonnes. | 25.20 | 1084 ((2008-09) |
| 27. | Production of eggs (2016-17) | Lakh Nos. | 23443.83 | 556378 (2008-09) |
| 28. | Production of meat (2016-17) | '000 tonnes | 28008 | 3822 (2008-09) |
| 29. | Production of fish (2015-16) | Lakh tonnes | 7.27 | 100.69 (2014-15) |

*Fourth advance estimates as released on 19-07-2010 , Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| TABLE-1 | | | | | | | |
|---|---------------|-----------|---------|-------------|---------------------|---------|-------------|
| AREA & PRODUCTION OF IMPORTANT CROPS IN KERALA | | | | | | | |
| FOR THE YEAR 2015-16 | | | | | | | |
| Sl. No. | Crop | Area (Ha) | | | Production (Tonnes) | | |
| | | 2001-02 | 2015-16 | % Variation | 2001-02 | 2015-16 | % Variation |
| 1 | Paddy !! | 322368 | 196870 | -39 | 703504 | 549275 | -22 |
| 2 | Tapioca | 111189 | 69405 | -38 | 2455880 | 2662610 | 8 |
| 3 | Coconut * | 905718 | 790223 | -13 | 5479 | 5873 | 7 |
| 4 | Pepper | 203956 | 85948 | -58 | 58240 | 42132 | -28 |
| 5 | Cashew | 89718 | 43090 | -52 | 65867 | 24733 | -62 |
| 6 | Rubber | 475039 | 550840 | 16 | 580350 | 438630 | -24 |
| 7 | Groundnut | 2437 | 449 | -82 | 1812 | 619 | -66 |
| 8 | Sesamum | 878 | 187 | -79 | 284 | 47.703 | -83 |
| 9 | Cotton # | 3760 | 109 | -97 | 6069 | 196 | -97 |
| 10 | Pulses | 8191 | 3764 | -54 | 6281 | 4265 | -32 |
| 11 | Ginger (Dry) | 10706 | 4986 | -53 | 40181 | 22044 | -45 |
| 12 | Turmeric | 3558 | 2603 | -27 | 7895 | 7112 | -10 |
| 13 | Banana | 50871 | 59835 | 18 | 345903 | 536155 | 55 |
| 14 | Tobaco | 71 | 9 | -87 | 395 | 15 | -96 |
| 15 | Total Cereals | 329875 | 197189 | -40 | 708624 | 549570 | -22 |
| 16 | Arecanut | 93193 | 99126 | 6 | 84681 | 132453 | 56 |
| 17 | Coffee | 84795 | 84987 | 0 | 66690 | 69230 | 4 |
| 18 | Tea | 36899 | 30205 | -18 | 66090 | 57898 | -12 |
| * Production in Million Nos. | | | | | | | |
| # Production in bales of 170 Kg. | | | | | | | |
| !! Production in Rice | | | | | | | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE -2

| | | CLASSIFICATION OF AREA ON THE BASIS OF LAND UTILISATION 2015-16 | | | | | | | | | | | | | | Area in Ha. | |
|--------|--------------------|---|---------|----------------------------------|----------------------------|---|-----------------------------|------------------|----------------------------------|----------------|-------------|-------------|-------------------|-----------------|---------------|--------------------------|--------------------|
| Sl. No | District | Total Geographical area | Forest | Land put to non agricultural use | Barren & uncultivable land | Permanent pastures & other grazing land | Land under misc. tree crops | Cultivable waste | Fallow other than current fallow | Current fallow | Marshy Land | Still Water | Water Logged Area | Social Forestry | Net area sown | Area sown more than once | Total cropped Area |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1 | Thiruvananthapuram | 218781 | 49861 | 33161 | 243 | 0 | 18 | 438 | 1072 | 2912 | 6 | 4342 | 88 | 60 | 126580 | 36268 | 162848 |
| 2 | Kollam | 248788 | 81438 | 28314 | 178 | 0 | 46 | 2673 | 1691 | 3255 | 4 | 6593 | 938 | 95 | 123563 | 25754 | 149317 |
| 3 | Pathanamthitta | 265277 | 155214 | 17666 | 181 | 0 | 100 | 1694 | 3165 | 4053 | 0 | 2698 | 165 | 118 | 80223 | 23348 | 103571 |
| 4 | Alappuzha | 141011 | 0 | 25114 | 8 | 0 | 94 | 13694 | 2494 | 3183 | 1 | 12457 | 337 | 39 | 83590 | 17908 | 101498 |
| 5 | Kottayam | 220442 | 8141 | 28449 | 1166 | 0 | 131 | 7273 | 2518 | 4765 | 0 | 6360 | 159 | 112 | 161368 | 42382 | 203750 |
| 6 | Idukki | 436328 | 198413 | 13714 | 1515 | 0 | 156 | 2145 | 1201 | 1884 | 0 | 10480 | 0 | 1140 | 205680 | 64807 | 270487 |
| 7 | Eranakulam | 305826 | 70617 | 42941 | 314 | 0 | 244 | 12402 | 7907 | 10814 | 6 | 11090 | 297 | 105 | 149089 | 16447 | 165536 |
| 8 | Thrissur | 302919 | 103619 | 38313 | 254 | 0 | 187 | 9734 | 6024 | 8081 | 0 | 6300 | 318 | 147 | 129942 | 44333 | 174275 |
| 9 | Palakkad | 447584 | 136257 | 49021 | 2459 | 0 | 892 | 23641 | 16087 | 12237 | 0 | 15333 | 0 | 380 | 191277 | 102163 | 293440 |
| 10 | Malappuram | 355446 | 103417 | 51203 | 968 | 0 | 178 | 6110 | 5332 | 7589 | 0 | 6148 | 62 | 202 | 174237 | 67348 | 241585 |
| 11 | Kozhikode | 234641 | 41386 | 31763 | 582 | 0 | 108 | 2832 | 1676 | 2000 | 5 | 3933 | 382 | 34 | 149940 | 50902 | 200842 |
| 12 | Wayanad | 212966 | 78787 | 12649 | 78 | 0 | 40 | 952 | 763 | 2257 | 0 | 4047 | 19 | 61 | 113313 | 66175 | 179488 |
| 13 | Kannur | 297112 | 48734 | 36727 | 1566 | 0 | 211 | 7105 | 3168 | 4376 | 95 | 6472 | 372 | 73 | 188213 | 37229 | 225442 |
| 14 | Kasaragod | 199166 | 5625 | 25611 | 3588 | 0 | 258 | 8806 | 2160 | 2597 | 0 | 4336 | 22 | 105 | 146058 | 9440 | 155498 |
| | STATE | 3886287 | 1081509 | 434646 | 13100 | 0 | 2663 | 99499 | 55258 | 70003 | 117 | 100589 | 3159 | 2671 | 2023073 | 604504 | 2627577 |

The estimates are based on survey conducted in the Revenue land (as per Village Records). Therefore the area under cultivation in forest land is not included.

| Sl. No. | | District | Paddy | | | | Grains | | | | | | | | | | Pulses | | | | | | | Total | | Area in Ha. |
|--------------------|---|--------------------|--------------|--------------|--------------|---------------|---------------------------------------|-------------------------------|-----------|----------------------------|----------|--------------|--------------|-----------------------|----------------------|---------------------|----------------------|-------------------------|-------------|--------------|-----------------------|-------------|---------------|-------|--|-------------|
| | | | Autumn | Winter | Summer | Total | Cholam /Towar (including cattle feed) | Ragi/Finger Millet (Kovaraku) | Maize | Small Millet (Thina/Chama) | Wheat | Other grains | Total Grains | Total Cereals/Millets | Cowpea (Perum payar) | Black gram (Uzhunu) | Horse gram (Muthira) | Green gram (Cherupayar) | Tur/Redgram | Other Pulses | Pulses other than tur | Total | | | | |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
| 1 | | Thiruvananthapuram | 1074 | 903 | 142 | 2119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2119 | 35 | 43 | 0 | 6 | 0 | 41 | 125 | 125 | 2244 | | | |
| 2 | | Kollam | 417 | 1132 | 6 | 1555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1555 | 67 | 3 | 0 | 2 | 0 | 21 | 93 | 93 | 1648 | | | |
| 3 | | Pathanamthitta | 28 | 419 | 2087 | 2534 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2534 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 2542 | | |
| 4 | | Alappuzha | 10217 | 1697 | 19810 | 31724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31724 | 4 | 0 | 0 | 35 | 0 | 0 | 39 | 39 | 31763 | | | |
| 5 | | Kottayam | 3661 | 4251 | 8360 | 16272 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16272 | 135 | 1 | 0 | 0 | 0 | 0 | 136 | 136 | 16408 | | | |
| 6 | | Idukki | 81 | 759 | 47 | 887 | 0 | 14 | 6 | 0 | 2 | 2 | 24 | 911 | 141 | 0 | 0 | 0 | 0 | 115 | 256 | 256 | 1167 | | | |
| 7 | | Ernakulam | 1246 | 4048 | 656 | 5950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5950 | 286 | 0 | 0 | 0 | 0 | 0 | 286 | 286 | 6236 | | | |
| 8 | | Thrissur | 1865 | 13891 | 8869 | 24625 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24625 | 0 | 16 | 0 | 0 | 1 | 0 | 16 | 17 | 24642 | | | |
| 9 | | Palakkad | 36244 | 41037 | 3839 | 81120 | 178 | 50 | 53 | 14 | 0 | 0 | 295 | 81415 | 35 | 147 | 88 | 9 | 957 | 0 | 279 | 1236 | 82651 | | | |
| 10 | | Malappuram | 395 | 6134 | 2158 | 8687 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8687 | 187 | 1 | 1 | 1 | 0 | 80 | 270 | 270 | 8957 | | | |
| 11 | | Kozhikode | 47 | 2377 | 448 | 2872 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2872 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 2878 | | | |
| 12 | | Wayanad | 0 | 8587 | 617 | 9204 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9204 | 5 | 1 | 1 | 1 | 473 | 0 | 8 | 481 | 9685 | | | |
| 13 | | Kannur | 2750 | 2721 | 7 | 5478 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5478 | 207 | 314 | 16 | 109 | 0 | 0 | 646 | 646 | 6124 | | | |
| 14 | | Kasaragode | 2393 | 1162 | 288 | 3843 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3843 | 125 | 29 | 6 | 5 | 0 | 0 | 165 | 165 | 4008 | | | |
| State Total | | | 60418 | 89118 | 47334 | 196870 | 178 | 64 | 59 | 14 | 2 | 2 | 319 | 197189 | 1241 | 555 | 112 | 168 | 1431 | 257 | 2333 | 3764 | 200953 | | | |

(Table - 3 Contd.....)

TABLE-3
AREA UNDER CROPS 2015-16

| Sl. No. | District | Sugar Crops | | | Spices and Condiments | | | | | | | | | | | | Area in Ha | | Grand Total(5+18) |
|--------------------|--------------------|----------------|-------------|----------------|-----------------------|-------------|-------------|--------------|--------------|--------------|-------------|------------|-------------|--------------|------------|-----------|---------------|------------------|-------------------|
| | | Sugar Cane | Palmyrah | Total | Pepper | Ginger | Turmeric | Cardamum * | Areca nut | Tamand | Others | Vanilla | Cloves | Nutmeg | Cinnamon | Garlic** | Total | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
| 1 | Thiruvananthapuram | 0.09 | 38 | 38.09 | 2293 | 95 | 73 | 0 | 1036 | 849 | 10 | 0 | 24 | 132 | 1 | 0 | 4513 | 4551.09 | |
| 2 | Kollam | 0.18 | 12 | 12.18 | 3330 | 318 | 240 | 0 | 1931 | 512 | 34 | 0 | 13 | 75 | 0 | 0 | 6453 | 6465.18 | |
| 3 | Pathanamthitta | 6.98 | 50 | 56.98 | 1707 | 295 | 83 | 665 | 1114 | 213 | 107 | 3 | 11 | 521 | 1 | 0 | 4720 | 4776.98 | |
| 4 | Alappuzha | 44.01 | 15 | 59.01 | 616 | 81 | 43 | 0 | 1325 | 505 | 356 | 0 | 2 | 320 | 7 | 0 | 3255 | 3314.01 | |
| 5 | Kottayam | 6.78 | 209 | 215.78 | 3215 | 111 | 97 | 85 | 1614 | 466 | 151 | 13 | 117 | 2136 | 5 | 0 | 8010 | 8225.78 | |
| 6 | Idukki | 875.79 | 181 | 1056.79 | 42694 | 540 | 188 | 31810 | 2244 | 471 | 73 | 82 | 767 | 3221 | 24 | 62 | 82176 | 83232.79 | |
| 7 | Ermakulam | 0.31 | 124 | 124.31 | 1867 | 98 | 246 | 0 | 4134 | 633 | 143 | 1 | 4 | 6614 | 8 | 0 | 13748 | 13872.31 | |
| 8 | Thrissur | 0.09 | 137 | 137.09 | 1790 | 50 | 77 | 0 | 6271 | 1347 | 156 | 1 | 10 | 6796 | 27 | 0 | 16525 | 16662.09 | |
| 9 | Palakkad | 422.75 | 1192 | 1614.75 | 2510 | 1106 | 576 | 2760 | 8900 | 3584 | 29 | 2 | 9 | 357 | 1 | 0 | 19834 | 21448.75 | |
| 10 | Malappuram | 0.46 | 251 | 251.46 | 2938 | 53 | 326 | 70 | 17895 | 1445 | 42 | 1 | 4 | 367 | 7 | 0 | 23148 | 23399.46 | |
| 11 | Kozhikode | 0.1 | 128 | 128.1 | 3474 | 42 | 286 | 220 | 10134 | 733 | 28 | 4 | 45 | 543 | 21 | 0 | 15530 | 15658.10 | |
| 12 | Wayanad | 0.67 | 61 | 61.67 | 12498 | 2125 | 192 | 4120 | 13461 | 102 | 28 | 6 | 38 | 160 | 9 | 0 | 32739 | 32800.67 | |
| 13 | Kannur | 2.79 | 91 | 93.79 | 4269 | 57 | 143 | 0 | 9386 | 506 | 43 | 5 | 10 | 277 | 9 | 0 | 14705 | 14798.79 | |
| 14 | Kasaragode | 0.59 | 21 | 21.59 | 2747 | 15 | 33 | 0 | 19681 | 184 | 14 | 3 | 28 | 159 | 2 | 0 | 22866 | 22887.59 | |
| STATE TOTAL | | 1361.59 | 2510 | 3871.59 | 85948 | 4986 | 2603 | 39730 | 99126 | 11550 | 1214 | 121 | 1082 | 21678 | 122 | 62 | 268222 | 272093.59 | |

Source:-

* Spices Board

** Garlic cultivation reduced in Idukki this year

(Table - 3 Contd.....)

| TABLE-3 | | | | | | | | | | | | | | | | |
|--------------------------|--------------------|--------------|--------------|--------------|--------------|-------------|--------------|------------|------------|---------------|--------------------|---------------|--------------|---------------|--|--------------|
| AREA UNDER CROPS 2015-16 | | | | | | | | | | | | | | | | |
| Sl. No. | District | Fresh Fruits | | | | | | | | | | | | Dry Fruit | | Total Fruits |
| | | Jack | Mango | Banana | Plantain | Pineapple | Pappaya | Orange | Lemon(Big) | Lemon (Small) | other fresh fruits | Total | Cashew | Total | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| 1 | Thiruvananthapuram | 6853 | 4707 | 2676 | 7120 | 141 | 1787 | 0 | 20 | 21 | 596 | 23921 | 1213 | 25134 | | |
| 2 | Kollam | 6687 | 5651 | 2884 | 5231 | 122 | 1416 | 0 | 25 | 28 | 434 | 22478 | 2334 | 24812 | | |
| 3 | Pathanamthitta | 2883 | 1806 | 2059 | 1988 | 151 | 735 | 0 | 19 | 19 | 670 | 10330 | 447 | 10777 | | |
| 4 | Alappuzha | 2714 | 4633 | 476 | 2121 | 78 | 1075 | 0 | 19 | 26 | 547 | 11689 | 1805 | 13494 | | |
| 5 | Kottayam | 4008 | 2864 | 2948 | 2894 | 1085 | 1140 | 0 | 30 | 45 | 626 | 15640 | 375 | 16015 | | |
| 6 | Idukki | 15428 | 6224 | 3486 | 3903 | 1159 | 1037 | 292 | 106 | 170 | 1160 | 32965 | 1147 | 34112 | | |
| 7 | Ermakulam | 4108 | 4491 | 4993 | 4650 | 4569 | 1316 | 0 | 24 | 28 | 940 | 25119 | 433 | 25552 | | |
| 8 | Thrissur | 4757 | 7021 | 2165 | 5259 | 61 | 1473 | 0 | 27 | 24 | 1088 | 21875 | 1661 | 23536 | | |
| 9 | Palakkad | 6744 | 10006 | 15736 | 9629 | 85 | 1439 | 1 | 91 | 78 | 1408 | 45217 | 2051 | 47268 | | |
| 10 | Malappuram | 8698 | 8570 | 7762 | 4294 | 133 | 2532 | 0 | 46 | 69 | 1270 | 33374 | 2313 | 35687 | | |
| 11 | Kozhikode | 10137 | 8380 | 1938 | 3587 | 134 | 2012 | 0 | 19 | 34 | 730 | 26971 | 1981 | 28952 | | |
| 12 | Wayanad | 8632 | 5107 | 9739 | 1413 | 33 | 413 | 58 | 43 | 44 | 329 | 25811 | 716 | 26527 | | |
| 13 | Kannur | 8551 | 7830 | 2328 | 3334 | 116 | 1945 | 0 | 98 | 53 | 1060 | 25315 | 19769 | 45084 | | |
| 14 | Kasaragode | 2769 | 2702 | 645 | 2260 | 44 | 756 | 0 | 23 | 26 | 714 | 9939 | 6845 | 16784 | | |
| STATE TOTAL | | 92969 | 79992 | 59835 | 57683 | 7911 | 19076 | 351 | 590 | 665 | 11572 | 330644 | 43090 | 373734 | | |

(Table - 3 Contd.....)

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| TABLE-3 | | | | | | | | | | | | | | |
|--------------------------|--------------------|--------------|--------------|--------------|--------------|-------------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|-------|
| AREA UNDER CROPS 2015-16 | | | | | | | | | | | | | | |
| Sl. No. | District | Tapioca | | | | Tubers | | | | | | | | Total |
| | | Autumn | Winter | Summer | Total | Elephant Foot Yam | Colocasia | Yam (Kachil) | Sweet Potato | Koorka | Nanakizhangu | Other Tubers | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 1 | Thiruvananthapuram | 3890 | 3725 | 6970 | 14585 | 398 | 714 | 59 | 17 | 15 | 16 | 139 | 1358 | |
| 2 | Kollam | 3041 | 5644 | 6462 | 15147 | 1019 | 1393 | 467 | 2 | 3 | 65 | 72 | 3021 | |
| 3 | Pathanamthitta | 838 | 1732 | 2650 | 5220 | 1157 | 1202 | 421 | 1 | 3 | 64 | 9 | 2857 | |
| 4 | Alappuzha | 418 | 1016 | 1281 | 2715 | 675 | 830 | 154 | 4 | 2 | 39 | 7 | 1711 | |
| 5 | Kottayam | 678 | 2280 | 2673 | 5631 | 511 | 492 | 93 | 1 | 2 | 5 | 0 | 1104 | |
| 6 | Idukki | 1259 | 2748 | 2912 | 6919 | 702 | 647 | 176 | 4 | 18 | 3 | 1 | 1551 | |
| 7 | Ernakulam | 1176 | 1371 | 2605 | 5152 | 223 | 238 | 28 | 4 | 39 | 3 | 5 | 540 | |
| 8 | Thrissur | 369 | 349 | 572 | 1290 | 81 | 205 | 9 | 4 | 310 | 1 | 38 | 648 | |
| 9 | Palakkad | 440 | 679 | 839 | 1958 | 426 | 538 | 32 | 55 | 909 | 28 | 188 | 2176 | |
| 10 | Malappuram | 1480 | 1004 | 2633 | 5117 | 492 | 659 | 69 | 81 | 44 | 17 | 77 | 1439 | |
| 11 | Kozhikode | 246 | 600 | 737 | 1583 | 200 | 471 | 36 | 13 | 11 | 6 | 72 | 809 | |
| 12 | Wayanad | 446 | 423 | 1019 | 1888 | 1117 | 198 | 45 | 7 | 5 | 0 | 2 | 1374 | |
| 13 | Kannur | 347 | 619 | 730 | 1696 | 98 | 398 | 22 | 30 | 5 | 3 | 35 | 591 | |
| 14 | Kasaragode | 50 | 306 | 148 | 504 | 44 | 100 | 6 | 56 | 2 | 1 | 4 | 213 | |
| State Total | | 14678 | 22496 | 32231 | 69405 | 7143 | 8085 | 1617 | 279 | 1368 | 251 | 649 | 19392 | |

(Table - 3 Contd.....)

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| | | TABLE-3 AREA UNDER CROPS 2015-16 | | | | | | | | | | | | | | Area in Ha | |
|--------------------|--------------------|-------------------------------------|-------------|--------------|-------------|---------------|-------------|----------------|--------------|----------------------|----------------------|-------------|-------------|-------------|--|------------|-----------------|
| Sl. No. | District | Vegetables | | | | | | | | | | | | | | Cucumber | Payar (Achinga) |
| | | Drumstick | Amaranthus | Bitter Gourd | Snake Gourd | Ladies Finger | Brinjal | Green Chillies | Bottle Gourd | Little Gourd (Koval) | Ash Gourd (Kumbalam) | Pumpkin | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | |
| 1 | Thiruvananthapuram | 2178 | 281 | 124 | 124 | 89 | 98 | 235 | 2 | 54 | 5 | 23 | 221 | 355 | | | |
| 2 | Kollam | 1666 | 217 | 153 | 57 | 83 | 110 | 202 | 7 | 150 | 38 | 59 | 24 | 289 | | | |
| 3 | Pathanamthitta | 514 | 90 | 112 | 87 | 62 | 82 | 52 | 0 | 129 | 48 | 49 | 36 | 237 | | | |
| 4 | Alappuzha | 474 | 241 | 215 | 185 | 88 | 118 | 114 | 4 | 166 | 64 | 67 | 101 | 403 | | | |
| 5 | Kottayam | 580 | 93 | 233 | 189 | 90 | 134 | 93 | 7 | 339 | 50 | 58 | 62 | 515 | | | |
| 6 | Idukki | 650 | 77 | 510 | 25 | 36 | 80 | 106 | 1 | 89 | 34 | 70 | 13 | 588 | | | |
| 7 | Ernakulam | 572 | 162 | 152 | 123 | 77 | 55 | 45 | 18 | 116 | 68 | 68 | 100 | 1043 | | | |
| 8 | Thrissur | 1215 | 101 | 222 | 50 | 113 | 71 | 152 | 2 | 101 | 74 | 71 | 90 | 678 | | | |
| 9 | Palakkad | 2057 | 196 | 394 | 184 | 454 | 211 | 287 | 26 | 146 | 234 | 320 | 118 | 1427 | | | |
| 10 | Malappuram | 2570 | 117 | 126 | 74 | 113 | 48 | 76 | 185 | 72 | 174 | 347 | 314 | 1002 | | | |
| 11 | Kozhikode | 1514 | 122 | 74 | 30 | 46 | 20 | 116 | 4 | 31 | 59 | 58 | 104 | 164 | | | |
| 12 | Wayanad | 594 | 75 | 158 | 6 | 15 | 29 | 63 | 6 | 28 | 69 | 155 | 29 | 601 | | | |
| 13 | Kannur | 1928 | 160 | 96 | 27 | 90 | 66 | 94 | 3 | 92 | 83 | 86 | 250 | 272 | | | |
| 14 | Kasaragode | 623 | 59 | 54 | 17 | 59 | 39 | 72 | 8 | 117 | 41 | 40 | 95 | 121 | | | |
| State Total | | 17135 | 1991 | 2623 | 1178 | 1415 | 1161 | 1707 | 273 | 1630 | 1041 | 1471 | 1557 | 7695 | | | |

(Table - 3 Contd.....)

| TABLE-3 | | | | | | | | | | | | | | |
|--------------------------|--------------------|------------|-------------|----------|------------|------------|-------------|-------------|-----------|------------------|------------------|------------------|--|------------------|
| AREA UNDER CROPS 2015-16 | | | | | | | | | | | | | | |
| Sl. No. | District | Vegetables | | | | | | | | | | | | Total Food Crops |
| | | Potato | carrot | Beetroot | cabbage | Tomato | cauliflower | Beans | Onion | Other Vegetables | Total Vegetables | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| 1 | Thiruvananthapuram | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 11 | 3805 | 51677.09 | | |
| 2 | Kollam | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 3 | 3065 | 54158.18 | | |
| 3 | Pathanamthitta | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 95 | 1595 | 27767.98 | | |
| 4 | Alappuzha | 0 | 0 | 0 | 1 | 9 | 2 | 0 | 0 | 54 | 2306 | 55303.01 | | |
| 5 | Kottayam | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 102 | 2551 | 49934.78 | | |
| 6 | Idukki | 490 | 1812 | 1 | 171 | 32 | 3 | 1609 | 0 | 23 | 6420 | 133401.79 | | |
| 7 | Ernakulam | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 86 | 2689 | 54041.31 | | |
| 8 | Thrissur | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 19 | 2967 | 69745.09 | | |
| 9 | Palakkad | 1 | 0 | 1 | 4 | 499 | 1 | 5 | 27 | 346 | 6938 | 162439.75 | | |
| 10 | Malappuram | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 9 | 5233 | 79832.46 | | |
| 11 | Kozhikode | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 24 | 2372 | 52252.1 | | |
| 12 | Wayanad | 0 | 0 | 0 | 14 | 18 | 5 | 11 | 0 | 51 | 1927 | 74201.67 | | |
| 13 | Kannur | 0 | 0 | 0 | 3 | 17 | 2 | 0 | 0 | 142 | 3411 | 71704.79 | | |
| 14 | Kasaragode | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 98 | 1445 | 45841.59 | | |
| State Total | | 491 | 1812 | 2 | 197 | 612 | 18 | 1625 | 27 | 1063 | 46724 | 982301.59 | | |

(Table - 3 Contd.....)

| Sl. No. | | District | Non Food Crops | | | | | | | | | | | | | Area in Ha | | | |
|--------------------|---|--------------------|----------------|------------|---------------|----------|------------|---------------|---------------------------|--------------|----------|-------------|------------------|--------------|--------------|---------------|--------------|---------------|----------------|
| | | | Oil Seeds | | | | | | Fibre Drugs and Narcotics | | | | Plantation Crops | | | Total | Grand Total | | |
| | | | Groundnut | Sesamum | Coconut | Soyabean | Others | Total | Cotton | Betel Leaves | Tobacco | Lemon Grass | Total | Tea * | Coffee ** | Rubber # | Cocoa | Total | Grand Total |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 1 | | Thiruvananthapuram | 0 | 1 | 72340 | 0 | 17 | 72358 | 0 | 18 | 0 | 0 | 18 | 962 | 0 | 32160 | 74 | 33196 | 105572 |
| 2 | | Kollam | 0 | 23 | 51834 | 0 | 17 | 51874 | 0 | 24 | 0 | 0 | 24 | 606 | 0 | 37240 | 8 | 37854 | 89752 |
| 3 | | Pathanamthitta | 0 | 0 | 15884 | 0 | 76 | 15960 | 0 | 39 | 0 | 0 | 39 | 0 | 0 | 50880 | 350 | 51230 | 67229 |
| 4 | | Alappuzha | 0 | 18 | 33227 | 0 | 94 | 33339 | 0 | 36 | 0 | 0 | 36 | 0 | 0 | 4500 | 72 | 4572 | 37947 |
| 5 | | Kottayam | 0 | 0 | 26849 | 0 | 114 | 26963 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 114400 | 842 | 115242 | 142212 |
| 6 | | Idukki | 0 | 0 | 16546 | 0 | 7 | 16553 | 0 | 0 | 0 | 90 | 90 | 21970 | 12740 | 40580 | 9059 | 84349 | 100992 |
| 7 | | Ernakulam | 0 | 7 | 41915 | 0 | 57 | 41979 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 60140 | 1052 | 61192 | 103175 |
| 8 | | Thrissur | 0 | 2 | 81602 | 0 | 48 | 81652 | 0 | 3 | 0 | 0 | 3 | 530 | 0 | 15660 | 86 | 16276 | 97931 |
| 9 | | Palakkad | 449 | 24 | 59976 | 1 | 159 | 60609 | 109 | 2 | 0 | 0 | 111 | 831 | 4833 | 37860 | 121 | 43645 | 104365 |
| 10 | | Malappuram | 0 | 109 | 103391 | 0 | 53 | 103553 | 0 | 158 | 0 | 0 | 158 | 0 | 0 | 42750 | 58 | 42808 | 146519 |
| 11 | | Kozhikode | 0 | 0 | 120683 | 0 | 22 | 120705 | 0 | 9 | 0 | 2 | 11 | 0 | 0 | 21920 | 759 | 22679 | 143395 |
| 12 | | Wayanad | 0 | 1 | 12403 | 0 | 36 | 12440 | 0 | 2 | 0 | 31 | 33 | 5306 | 67414 | 10790 | 774 | 84284 | 96757 |
| 13 | | Kannur | 0 | 2 | 89238 | 0 | 53 | 89293 | 0 | 13 | 0 | 6 | 19 | 0 | 0 | 48050 | 389 | 48439 | 137751 |
| 14 | | Kasaragode | 0 | 0 | 64335 | 0 | 27 | 64362 | 0 | 18 | 9 | 0 | 27 | 0 | 0 | 33910 | 280 | 34190 | 98579 |
| State Total | | | 449 | 187 | 790223 | 1 | 780 | 791640 | 109 | 333 | 9 | 129 | 580 | 30205 | 84987 | 550840 | 13924 | 679956 | 1472176 |

(Table - 3 Contd.....)

Source:-

- * Tea Board
- ** Coffee Board
- # Rubber Board

| TABLE-3 | | | | | | | | | | | |
|--------------------------|--------------------|----------------|--------------------|---------------------|--------------|------------------|---------------|----------------|-------------------|----------------------|--------------------|
| AREA UNDER CROPS 2015-16 | | | | | | | | | | | |
| Sl. No. | District | Non Food Crops | | | | | | | | Total Non Food Crops | Total Cropped Area |
| | | Fodder Grass | Green Manure Crops | Other Crops & Trees | Teak | Medicinal Plants | Total | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 1 | Thiruvananthapuram | 109 | 552 | 4170 | 714 | 54 | 5599 | 11171 | 162848.09 | | |
| 2 | Kollam | 146 | 848 | 2992 | 1381 | 40 | 5407 | 95159 | 149317.18 | | |
| 3 | Pathanamthitta | 168 | 933 | 5246 | 2164 | 63 | 8574 | 75803 | 103570.98 | | |
| 4 | Alappuzha | 117 | 559 | 6462 | 1020 | 90 | 8248 | 46195 | 101498.01 | | |
| 5 | Kottayam | 266 | 597 | 7674 | 2997 | 69 | 11603 | 153815 | 203749.78 | | |
| 6 | Idukki | 1505 | 1700 | 31179 | 1332 | 377 | 36093 | 137085 | 270486.79 | | |
| 7 | Ermakulam | 247 | 569 | 5807 | 1598 | 99 | 8320 | 111495 | 165536.31 | | |
| 8 | Thrissur | 81 | 1519 | 3572 | 1192 | 235 | 6599 | 104530 | 174275.09 | | |
| 9 | Palakkad | 1958 | 3033 | 15582 | 5067 | 995 | 26635 | 131000 | 293439.75 | | |
| 10 | Malappuram | 97 | 4259 | 7856 | 2918 | 104 | 15234 | 161753 | 241585.46 | | |
| 11 | Kozhikode | 67 | 1469 | 3040 | 537 | 82 | 5195 | 148590 | 200842.1 | | |
| 12 | Wayanad | 517 | 613 | 6920 | 365 | 114 | 8529 | 105286 | 179487.67 | | |
| 13 | Kannur | 173 | 1287 | 11876 | 2567 | 83 | 15986 | 153737 | 225441.79 | | |
| 14 | Kasaragode | 101 | 1828 | 8429 | 689 | 30 | 11077 | 109656 | 155497.59 | | |
| STATE TOTAL | | 5552 | 19766 | 120805 | 24541 | 2435 | 173099 | 1645275 | 2627576.59 | | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 4
PRODUCTION OF IMPORTANT CROPS 2015-16

| Sl. No. | District | Rice | | | | Total | Cholam /Jowar (Including cattle feed) | Ragi/Finger Millet (Koovaraku) | Maize | Small Millet (Thina/Chama) | Wheat | Tur/Redgram | Pulses other than Tur / Redgram | Sugarcane (Cane Gur) | Black Pepper | Cured Ginger | Cured Turmeric | Processed Cardamum * |
|---------|--------------------|---------------|---------------|---------------|---------------|------------|---------------------------------------|--------------------------------|-----------|----------------------------|-------------|-------------|---------------------------------|----------------------|--------------|--------------|----------------|----------------------|
| | | Autumn | Winter | Summer | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| 1 | Thiruvananthapuram | 2746 | 2374 | 333 | 5453 | | | | | | | 155 | 0 | 972 | 346 | 185 | | |
| 2 | Kollam | 1014 | 2325 | 12 | 3351 | | | | | | | 106 | 0 | 1093 | 743 | 387 | | |
| 3 | Pathanamthitta | 62 | 1007 | 7327 | 8396 | | | | | | | 7 | 57.966 | 599 | 928 | 183 | 8 | |
| 4 | Alappuzha | 30662 | 4172 | 54501 | 89335 | | | | | | | 37 | 385.266 | 134 | 291 | 88 | | |
| 5 | Kottayam | 12191 | 12268 | 25047 | 49506 | | | | | | | 127 | 56.536 | 1150 | 359 | 247 | 5 | |
| 6 | Idukki | 177 | 1907 | 114 | 2198 | | 25 | 14 | | 3 | | 345 | 9827.148 | 25495 | 2948 | 767 | 18530 | |
| 7 | Eranakulam | 2327 | 8979 | 1346 | 12652 | | | | | | | 268 | 0 | 527 | 283 | 674 | | |
| 8 | Thrissur | 4217 | 41509 | 33160 | 78886 | | | | | | 1 | 15 | 0.086 | 479 | 130 | 164 | | |
| 9 | Palakkad | 95152 | 122157 | 11150 | 228459 | 132 | 51 | 60 | 10 | | 1234 | 261 | 3448.074 | 954 | 5526 | 1689 | 290 | |
| 10 | Malappuram | 822 | 14284 | 8543 | 23649 | | | | | | | 326 | 0 | 460 | 117 | 778 | 2 | |
| 11 | Kozhikode | 58 | 2614 | 936 | 3608 | | | | | | | 6 | 0 | 934 | 135 | 859 | 5 | |
| 12 | Wayanad | 0 | 22174 | 1530 | 23704 | | | | | | 610 | 8 | 0 | 6593 | 9959 | 577 | 660 | |
| 13 | Kannur | 5924 | 5582 | 12 | 11518 | | | | | | | 605 | 37.434 | 1553 | 223 | 430 | | |
| 14 | Kasaragod | 5542 | 2323 | 695 | 8560 | | | | | | | 154 | 0 | 1189 | 56 | 84 | | |
| | State Total | 160894 | 243675 | 144706 | 549275 | 132 | 76 | 74 | 10 | 3 | 1845 | 2420 | 13812.510 | 42132 | 22044 | 7112 | 19500 | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 4
PRODUCTION OF IMPORTANT CROPS 2015-16

| Sl. No. | Name of district | Production in tonnes | | | | | | | | | | | | | |
|---------|--------------------|----------------------|--------------|--------------|------------|-------------|--------------------|---------------|---------------|---------------|--------------|---------------|--------------|----------------|--------------|
| | | Arcanutt | Tamarind | Nutmeg | Garlic | Cloves(dry) | Jack(Million Nos.) | Mango | Banana | Plantain | Pineapple | Pappaya | Raw Cashew | Tapioca | Sweet potato |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 14 | 15 | 16 |
| 1 | Thiruvananthapuram | 643 | 3398 | 63 | | 2 | 27 | 24871 | 18338 | 64661 | 1039 | 15534 | 267 | 536295 | 187 |
| 2 | Kollam | 1070 | 1068 | 33 | | 1 | 24 | 37136 | 20399 | 40324 | 873 | 6913 | 644 | 530802 | 22 |
| 3 | Pathanamthitta | 697 | 571 | 273 | | 1 | 9 | 8129 | 16375 | 21582 | 928 | 6453 | 112 | 209948 | 12 |
| 4 | Alappuzha | 467 | 1192 | 108 | | 1 | 6 | 21264 | 4135 | 14927 | 491 | 8874 | 248 | 87777 | 43 |
| 5 | Kottayam | 1121 | 2204 | 1516 | | 10 | 14 | 15264 | 23625 | 20987 | 7670 | 5586 | 102 | 220466 | 11 |
| 6 | Idukki | 1597 | 1820 | 1997 | 375 | 49 | 60 | 45095 | 30115 | 39164 | 9752 | 6666 | 376 | 319317 | 88 |
| 7 | Eranakulam | 3460 | 1452 | 5751 | | 1 | 13 | 29059 | 46730 | 35881 | 41307 | 8820 | 118 | 239195 | 48 |
| 8 | Thrissur | 6098 | 4162 | 4171 | | 2 | 15 | 38762 | 19803 | 33229 | 371 | 5217 | 462 | 54613 | 28 |
| 9 | Palakkad | 8850 | 15255 | 141 | | 2 | 20 | 44596 | 152109 | 58353 | 385 | 7573 | 406 | 62312 | 825 |
| 10 | Malappuram | 23359 | 3778 | 155 | | 1 | 25 | 43017 | 64990 | 27379 | 863 | 11964 | 480 | 198203 | 972 |
| 11 | Kozhikode | 10347 | 1645 | 268 | | 3 | 21 | 39509 | 17723 | 18626 | 745 | 7992 | 626 | 39368 | 199 |
| 12 | Wayanad | 7428 | 419 | 60 | | 2 | 15 | 15373 | 92295 | 10764 | 141 | 3697 | 291 | 77868 | 111 |
| 13 | Kannur | 14173 | 2091 | 162 | | 1 | 25 | 42961 | 22503 | 14325 | 633 | 12631 | 16744 | 66455 | 331 |
| 14 | Kasaragod | 53143 | 677 | 204 | | 2 | 11 | 9508 | 7015 | 11424 | 284 | 5155 | 3857 | 19991 | 1045 |
| | State Total | 132453 | 39732 | 14902 | 375 | 78 | 285 | 414544 | 536155 | 411626 | 65482 | 113075 | 24733 | 2662610 | 3922 |

Source :

* Tea Board

** Coffee Board

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 4
PRODUCTION OF IMPORTANT CROPS 2015-16

| Sl. No. | Name of district | Production in tonnes | | | | | | | | | | | | | | |
|---------|--------------------|----------------------|----------------|-------------|------------|---------------|-----------------------|----------|--------------------------------------|--------------|-----------|--------------|--------------|---------------|-------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | Drumstick | Green Chillies | Potato | Ground nut | Sesamum | Coconut(Million Nos.) | Soyabean | Cotton(No. of bales of 170 Kg. each) | Betel Leaves | Tobacco | Tea * | Coffee ** | Rubber # | Cocoa | |
| 1 | Thiruvananthapuram | 2653 | 210 | | | 0.21 | 633 | | | 702 | | | | 25080 | | 41 |
| 2 | Kollam | 1711 | 182 | | | 8.186 | 358 | | | 846 | | 149 | | 31600 | | 3 |
| 3 | Pathanamthitta | 352 | 51 | | | 0 | 91 | | | 774 | | | | 44510 | | 360 |
| 4 | Alappuzha | 320 | 104 | | | 6.101 | 187 | | | 1415 | | | | 3620 | | 143 |
| 5 | Kottayam | 405 | 82 | | | 0 | 133 | | | 197 | | | | 88700 | | 809 |
| 6 | Idukki | 629 | 95 | 6580 | | 0 | 63 | | | 0 | | 40287 | 8480 | 32050 | | 11170 |
| 7 | Ernakulam | 626 | 40 | | | 0.471 | 188 | | | 179 | | | | 48550 | | 740 |
| 8 | Thrissur | 1374 | 138 | | | 0.81 | 489 | | | 72 | | 1691 | | 12900 | | 46 |
| 9 | Palakkad | 3723 | 290 | 1 | 619 | 3.395 | 451 | 1 | 196 | 133 | | 1695 | 2900 | 29100 | | 88 |
| 10 | Malappuram | 1516 | 70 | | | 27.465 | 1046 | | | 5519 | | | | 32450 | | 15 |
| 11 | Kozhikode | 581 | 116 | | | 0 | 975 | | | 579 | | | | 19000 | | 696 |
| 12 | Wayanad | 230 | 63 | | | 0.434 | 77 | | | 53 | | 14050 | 57850 | 6200 | | 636 |
| 13 | Kannur | 1512 | 93 | | | 0.631 | 563 | | | 811 | | | | 39020 | | 343 |
| 14 | Kasaragod | 663 | 68 | | | 0 | 619 | | | 1377 | | 15 | | 25850 | | 259 |
| | State Total | 16295 | 1602 | 6581 | 619 | 47.703 | 5873 | 1 | 196 | 12657 | 15 | 57898 | 69230 | 438630 | | 15349 |

Source :

* Tea Board

** Coffee Board

Rubber Board

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| ESTIMATED AREA AND PRODUCTION OF RICE - AUTUMN- 2015-16 | | | | | | | | | | | | | | | |
|---|--------------------|---------------|--------------|--------------|---------------|--------------|---------------|-----------|------------|-------------|-------------|-------------|-------------|--------------|---------------|
| Sl. No. | District | High Yielding | | | | | | | | | | | | Total | |
| | | Irrigated | | Unirrigated | | Total | | Irrigated | | Unirrigated | | Total | | Area | Production |
| | | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Thiruvananthapuram | 1031 | 2663 | 0 | 0 | 1031 | 2663 | 43 | 83 | 0 | 0 | 43 | 83 | 1074 | 2746 |
| 2 | Kollam | 220 | 546 | 155 | 365 | 375 | 911 | 38 | 91 | 4 | 12 | 42 | 103 | 417 | 1014 |
| 3 | Pathanamthitta | 28 | 62 | 0 | 0 | 28 | 62 | 0 | 0 | | | 0 | 0 | 28 | 62 |
| 4 | Alappuzha | 9492 | 29982 | 602 | 563 | 10094 | 30545 | 1 | 2 | 122 | 115 | 123 | 117 | 10217 | 30662 |
| 5 | Kottayam | 3573 | 11940 | 88 | 251 | 3661 | 12191 | 0 | 0 | | | 0 | 0 | 3661 | 12191 |
| 6 | Idukki | 80 | 176 | 0 | 0 | 80 | 176 | 1 | 1 | | | 1 | 1 | 81 | 177 |
| 7 | Eranakulam | 569 | 1220 | 381 | 790 | 950 | 2010 | | | 296 | 317 | 296 | 317 | 1246 | 2327 |
| 8 | Thrissur | 83 | 165 | 1776 | 4041 | 1859 | 4206 | | | 6 | 11 | 6 | 11 | 1865 | 4217 |
| 9 | Palakkad | 4360 | 11347 | 31772 | 83630 | 36132 | 94977 | | | 112 | 175 | 112 | 175 | 36244 | 95152 |
| 10 | Malappuram | 4 | 12 | 376 | 787 | 380 | 799 | 5 | 12 | 10 | 11 | 15 | 23 | 395 | 822 |
| 11 | Kozhikode | 3 | 9 | 36 | 44 | 39 | 53 | | | 8 | 5 | 8 | 5 | 47 | 58 |
| 12 | Wayanad | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 |
| 13 | Kannur | 0 | 0 | 2503 | 5547 | 2503 | 5547 | | | 247 | 377 | 247 | 377 | 2750 | 5924 |
| 14 | Kasaragod | 0 | 0 | 2250 | 5409 | 2250 | 5409 | | | 143 | 133 | 143 | 133 | 2393 | 5542 |
| State Total | | 19443 | 58122 | 39939 | 101427 | 59382 | 159549 | 88 | 189 | 948 | 1156 | 1036 | 1345 | 60418 | 160894 |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| ESTIMATED AREA AND PRODUCTION OF RICE - WINTER 2015-16 | | | | | | | | | | | | | | | |
|--|--------------------|---------------|---------------|-------------|-------------|--------------|---------------|-----------------|--------------|-------------|-------------|-------------|--------------|--------------|---------------|
| Sl. No. | District | High Yielding | | | | | | Local Varieties | | | | | | Total | |
| | | Irrigated | | Unirrigated | | Total | | Irrigated | | Unirrigated | | Total | | Area | Production |
| | | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Thiruvananthapuram | 898 | 2365 | 0 | 0 | 898 | 2365 | 5 | 9 | 0 | 0 | 5 | 9 | 903 | 2374 |
| 2 | Kollam | 592 | 1316 | 104 | 243 | 696 | 1559 | 325 | 648 | 111 | 118 | 436 | 766 | 1132 | 2325 |
| 3 | Pathanamthitta | 418 | 1006 | 0 | 0 | 418 | 1006 | 1 | 1 | 0 | 0 | 1 | 1 | 419 | 1007 |
| 4 | Alappuzha | 1572 | 4041 | 87 | 117 | 1659 | 4158 | 4 | 6 | 34 | 8 | 38 | 14 | 1697 | 4172 |
| 5 | Kottayam | 4241 | 12246 | 0 | 0 | 4241 | 12246 | 10 | 22 | 0 | 0 | 10 | 22 | 4251 | 12268 |
| 6 | Idukki | 600 | 1557 | 0 | 0 | 600 | 1557 | 159 | 350 | 0 | 0 | 159 | 350 | 759 | 1907 |
| 7 | Ernakulam | 4035 | 8965 | 0 | 0 | 4035 | 8965 | 13 | 14 | 0 | 0 | 13 | 14 | 4048 | 8979 |
| 8 | Thrissur | 13262 | 40334 | 123 | 255 | 13385 | 40589 | 426 | 770 | 80 | 150 | 506 | 920 | 13891 | 41509 |
| 9 | Palakkad | 39212 | 118738 | 102 | 249 | 39314 | 118987 | 1700 | 3128 | 23 | 42 | 1723 | 3170 | 41037 | 122157 |
| 10 | Malappuram | 2252 | 6258 | 1585 | 3923 | 3837 | 10181 | 1587 | 2896 | 710 | 1207 | 2297 | 4103 | 6134 | 14284 |
| 11 | Kozhikode | 54 | 119 | 206 | 396 | 260 | 515 | 14 | 22 | 2103 | 2077 | 2117 | 2099 | 2377 | 2614 |
| 12 | Wayanad | 7986 | 21061 | 0 | 0 | 7986 | 21061 | 601 | 1113 | 0 | 0 | 601 | 1113 | 8587 | 22174 |
| 13 | Kannur | 1949 | 4494 | 0 | 0 | 1949 | 4494 | 732 | 1047 | 40 | 41 | 772 | 1088 | 2721 | 5582 |
| 14 | Kasaragod | 450 | 1123 | 0 | 0 | 450 | 1123 | 592 | 1052 | 120 | 148 | 712 | 1200 | 1162 | 2323 |
| State Total | | 77521 | 223623 | 2207 | 5183 | 79728 | 228806 | 6169 | 11078 | 3221 | 3791 | 9390 | 14869 | 89118 | 243675 |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| | | TABLE -7 | | | | | | | | | | | | | | | | | | | |
|--------------------|--------------------|---|---------------|-------------|------------|--------------|---------------|-----------------|------------|-------------|------------|------------|------------|--------------|---------------|------------|------------|------|------------|------------|------------|
| | | ESTIMATED AREA AND PRODUCTION OF RICE - SUMMER 2015-16 | | | | | | | | | | | | | | | | | | | |
| Sl. No. | District | High Yielding | | | | | | Local Varieties | | | | | | Total | | | | | | | |
| | | Irrigated | | Unirrigated | | Total | | Irrigated | | Unirrigated | | Total | | Area | | Production | | Area | | Production | |
| | | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production | Area | Production |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | |
| 1 | Thiruvananthapuram | 141 | 332 | 0 | 0 | 141 | 332 | 1 | 1 | 0 | 0 | 1 | 1 | 142 | 333 | | | | | | |
| 2 | Kollam | 6 | 12 | 0 | 0 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 | | | | | | |
| 3 | Pathanamthitta | 2087 | 7327 | 0 | 0 | 2087 | 7327 | 0 | 0 | 0 | 0 | 0 | 0 | 2087 | 7327 | | | | | | |
| 4 | Alappuzha | 19810 | 54501 | 0 | 0 | 19810 | 54501 | 0 | 0 | 0 | 0 | 0 | 0 | 19810 | 54501 | | | | | | |
| 5 | Kottayam | 8360 | 25047 | 0 | 0 | 8360 | 25047 | 0 | 0 | 0 | 0 | 0 | 0 | 8360 | 25047 | | | | | | |
| 6 | Idukki | 35 | 91 | 1 | 2 | 36 | 93 | 11 | 21 | 0 | 0 | 11 | 21 | 47 | 114 | | | | | | |
| 7 | Ernakulam | 654 | 1344 | 0 | 0 | 654 | 1344 | 2 | 2 | 0 | 0 | 2 | 2 | 656 | 1346 | | | | | | |
| 8 | Thrissur | 8833 | 33043 | 0 | 0 | 8833 | 33043 | 36 | 117 | 0 | 0 | 36 | 117 | 8869 | 33160 | | | | | | |
| 8 | Palakkad | 3822 | 11127 | 0 | 0 | 3822 | 11127 | 17 | 23 | 0 | 0 | 17 | 23 | 3839 | 11150 | | | | | | |
| 10 | Malappuram | 2156 | 8541 | 0 | 0 | 2156 | 8541 | 2 | 2 | 0 | 0 | 2 | 2 | 2158 | 8543 | | | | | | |
| 11 | Kozhikode | 406 | 854 | 37 | 74 | 443 | 928 | 4.5 | 7 | 0.5 | 1 | 5 | 8 | 448 | 936 | | | | | | |
| 12 | Wayanad | 616 | 1529 | 0 | 0 | 616 | 1529 | 1 | 1 | 0 | 0 | 1 | 1 | 617 | 1530 | | | | | | |
| 13 | Kannur | 6 | 10 | 0 | 0 | 6 | 10 | 0.96 | 1 | 0.0 | 1 | 1 | 2 | 7 | 12 | | | | | | |
| 14 | Kasaragod | 248 | 623 | 0 | | 248 | 623 | 40 | 72 | 0 | 0 | 40 | 72 | 288 | 695 | | | | | | |
| STATE TOTAL | | 47180 | 144381 | 38 | 76 | 47218 | 144457 | 115.46 | 247 | 0.54 | 2 | 116 | 249 | 47334 | 144706 | | | | | | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 8
ESTIMATED PRODUCTIVITY 2015-16

| Sl. No. | Name of district | Productivity in Kg/Ha | | | | | | | | | | | | | | |
|---------|----------------------|-----------------------|-------------|-------------|-------------|---------------|-------------|-------------|--------------|-------------|---------------------------------|--------------|--------------|--------------|----------------|----------------------|
| | | Rice | | | | Cholam /Jowar | Ragi | Maize | Small millet | Tur/Redgram | Pulses other than Tur / Redgram | Sugarcane | Black Pepper | Cured Ginger | Cured Turmeric | Processed cardamom # |
| | | Autumn | Winter | Summer | Total | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1 | Thiruvananthapuram | 2557 | 2629 | 2345 | 2573 | | | | | | 1240 | | 424 | 3642 | 2534 | |
| 2 | Kollam | 2432 | 2054 | 2000 | 2155 | | | | | | 1140 | | 328 | 2336 | 1613 | |
| 3 | Pathanamthitta | 2214 | 2403 | 3511 | 3313 | | | | | | 875 | 8305 | 351 | 3146 | 2205 | 12 |
| 4 | Alappuzha | 3001 | 2458 | 2751 | 2816 | | | | | | 949 | 8754 | 218 | 3593 | 2047 | |
| 5 | Kottayam | 3330 | 2886 | 2996 | 3042 | | | | | | 934 | 8339 | 358 | 3234 | 2546 | 59 |
| 6 | Idukki | 2185 | 2513 | 2426 | 2478 | | 1786 | 2333 | | | 1348 | 11221 | 597 | 5459 | 4080 | 583 |
| 7 | Eranakulam | 1868 | 2218 | 2052 | 2126 | | | | | | 937 | | 282 | 2888 | 2740 | |
| 8 | Thrissur | 2261 | 2988 | 3739 | 3203 | | | | | 1000 | 938 | 956 | 268 | 2600 | 2130 | |
| 9 | Palakkad | 2625 | 2977 | 2904 | 2816 | 742 | 1020 | 1132 | 714 | 1289 | 935 | 8156 | 380 | 4996 | 2932 | 105 |
| 10 | Malappuram | 2081 | 2329 | 3959 | 2722 | | | | | | 1207 | | 157 | 2208 | 2387 | 29 |
| 11 | Kozhikode | 1234 | 1100 | 2089 | 1256 | | | | | | 1000 | | 269 | 3214 | 3003 | 23 |
| 12 | Wayanad | | 2582 | 2480 | 2575 | | | | | 1290 | 1000 | | 528 | 4687 | 3005 | 160 |
| 13 | Kannur | 2154 | 2051 | 1714 | 2103 | | | | | | 937 | 13417 | 364 | 3912 | 3007 | |
| 14 | Kasaragod | 2316 | 1999 | 2413 | 2227 | | | | | | 933 | | 433 | 3733 | 2545 | |
| | State Average | 2663 | 2734 | 3057 | 2790 | 742 | 1188 | 1254 | 714 | 1289 | 1037 | 10144 | 490 | 4421 | 2732 | 491 |

Source: # Spices Board

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 8

| Sl. No. | Name of district | ESTIMATED PRODUCTIVITY 2015-16 | | | | | | | | | | | | | | Productivity in Kg/Ha | | | | |
|---------|----------------------|--------------------------------|-------------|------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|------------|--|-----------------------|--|--|--|--|
| | | Aaracanut | Tamarind | Nutmeg | Garlic | Jack (Nos./Ha) | Mango | Banana | Plantain | Pineapple | Pappaya | Raw cashew | Tapioca | Sesamum | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | | |
| 1 | Thiruvananthapuram | 621 | 4002 | 477 | | 3940 | 5284 | 6853 | 9082 | 7369 | 8693 | 220 | 36770 | 210 | | | | | | |
| 2 | Kollam | 554 | 2086 | 440 | | 3589 | 6572 | 7073 | 7709 | 7156 | 4882 | 276 | 35043 | 356 | | | | | | |
| 3 | Pathanamthitta | 626 | 2681 | 524 | | 3122 | 4501 | 7953 | 10856 | 6146 | 8780 | 251 | 40220 | | | | | | | |
| 4 | Alappuzha | 352 | 2360 | 338 | | 2211 | 4590 | 8687 | 7038 | 6295 | 8255 | 137 | 32330 | 339 | | | | | | |
| 5 | Kottayam | 695 | 4730 | 710 | | 3493 | 5330 | 8014 | 7252 | 7069 | 4900 | 272 | 39152 | | | | | | | |
| 6 | Idukki | 712 | 3864 | 620 | 6048 | 3889 | 7245 | 8639 | 10034 | 8414 | 6428 | 328 | 46151 | | | | | | | |
| 7 | Eranakulam | 837 | 2294 | 870 | | 3165 | 6470 | 9359 | 7716 | 9041 | 6702 | 273 | 46428 | 67 | | | | | | |
| 8 | Thrissur | 972 | 3090 | 614 | | 3153 | 5521 | 9147 | 6319 | 6082 | 3542 | 278 | 42336 | 405 | | | | | | |
| 9 | Palakkad | 994 | 4256 | 395 | | 2966 | 4457 | 9666 | 6060 | 4529 | 5263 | 198 | 31824 | 141 | | | | | | |
| 10 | Malappuram | 1305 | 2615 | 422 | | 2874 | 5019 | 8373 | 6376 | 6489 | 4725 | 208 | 38734 | 252 | | | | | | |
| 11 | Kozhikode | 1021 | 2244 | 494 | | 2072 | 4715 | 9145 | 5193 | 5560 | 3972 | 316 | 24869 | | | | | | | |
| 12 | Wayanad | 552 | 4108 | 375 | | 1738 | 3010 | 9477 | 7618 | 4273 | 8952 | 406 | 41244 | 434 | | | | | | |
| 13 | Kannur | 1510 | 4132 | 585 | | 2924 | 5487 | 9666 | 4297 | 5457 | 6494 | 847 | 39183 | 316 | | | | | | |
| 14 | Kasaragod | 2700 | 3679 | 1283 | | 3973 | 3519 | 10876 | 5055 | 6455 | 6819 | 563 | 39665 | | | | | | | |
| | State Average | 1336 | 3440 | 687 | 6048 | 3066 | 5182 | 8961 | 7136 | 8277 | 5928 | 574 | 38363 | 255 | | | | | | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE -8

| ESTIMATED PRODUCTIVITY 2015-16 | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|-----------------------|------------|----------------|--------------|-------------|-------------------|-------------|-------------------------------------|--------------|-------------|-------------|------------|------------|-------------|
| Sl. No. | Name of district | Productivity in Kg/Ha | | | | | | | | | | | | | |
| | | Sweet potato | Drumstick | Green chillies | Potato | Groundnut | Coconut (Nos./Ha) | Soyabean | Cotton (in 1000 bales of 170Kg./Ha) | Betel leaves | Tobacco | Tea * | Coffee** | Rubber # | Cocoa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Thiruvananthapuram | 11000 | 1218 | 894 | 0 | 0 | 8750 | 0 | 0 | 39000 | 0 | 27 | 0 | 780 | 554 |
| 2 | Kollam | 11000 | 1027 | 901 | 0 | 0 | 6907 | 0 | 0 | 35250 | 0 | 246 | 0 | 849 | 375 |
| 3 | Pathanamthitta | 12000 | 685 | 981 | 0 | 0 | 5729 | 0 | 0 | 19846 | 0 | 0 | 0 | 875 | 1029 |
| 4 | Alappuzha | 10750 | 675 | 912 | 0 | 0 | 5628 | 0 | 0 | 39306 | 0 | 0 | 0 | 804 | 1986 |
| 5 | Kottayam | 11000 | 698 | 882 | 0 | 0 | 4954 | 0 | 0 | 28143 | 0 | 0 | 0 | 775 | 961 |
| 6 | Idukki | 22000 | 968 | 896 | 13429 | 0 | 3808 | 0 | 0 | 0 | 0 | 1834 | 666 | 790 | 1233 |
| 7 | Ernakulam | 12000 | 1094 | 889 | 0 | 0 | 4485 | 0 | 0 | 44750 | 0 | 0 | 0 | 807 | 703 |
| 8 | Thrissur | 7000 | 1131 | 908 | 0 | 0 | 5993 | 0 | 0 | 24000 | 0 | 3191 | 0 | 824 | 535 |
| 9 | Palakkad | 15000 | 1810 | 1010 | 1000 | 1379 | 7520 | 1000 | 1798 | 66500 | 0 | 2040 | 600 | 769 | 727 |
| 10 | Malappuram | 12000 | 590 | 921 | 0 | 0 | 10117 | 0 | 0 | 34930 | 0 | 0 | 0 | 759 | 259 |
| 11 | Kozhikode | 15308 | 384 | 1000 | 0 | 0 | 8079 | 0 | 0 | 64333 | 0 | 0 | 0 | 867 | 917 |
| 12 | Wayanad | 15857 | 387 | 1000 | 0 | 0 | 6208 | 0 | 0 | 26500 | 0 | 2648 | 858 | 575 | 822 |
| 13 | Kannur | 11033 | 784 | 989 | 0 | 0 | 6309 | 0 | 0 | 62385 | 0 | 0 | 0 | 812 | 882 |
| 14 | Kasaragod | 18661 | 1064 | 944 | 0 | 0 | 9622 | 0 | 0 | 76500 | 1667 | 0 | 0 | 762 | 925 |
| State Average | | 14057 | 951 | 938 | 13403 | 1379 | 7432 | 1000 | 1798 | 38009 | 1667 | 1917 | 815 | 796 | 1102 |

Source:

* Tea Board

** Coffee Board

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

| Table 9 | | | | | | | | | | | | | | | |
|---|--------------------|----------------------------|------------|-------------|--------------|------------|---------------|-------------------|-------------------------|-------------------|----------|---------------|---------------|---------------|-------|
| NET AREA IRRIGATED (SOURCEWISE) 2015-16 | | | | | | | | | | | | | | | |
| Sl. No. | Districts | Small stream (Thodu/Canal) | | Pond | | Well | | Borewell/Tubewell | Lift & Minor Irrigation | From River & Lake | | | Other sources | Grand Total | |
| | | Govt. | Private | Govt | Private | Govt | Private | | | Pump | Wheel | Other methods | | | Total |
| | | | | | | | | | | | | | | | |
| 1 | Thiruvananthapuram | 3833 | 0 | 588 | 21 | 1 | 3254 | 111 | 0 | 0 | 0 | 0 | 439 | 8247 | |
| 2 | Kollam | 1368 | 27 | 15 | 49 | 31 | 2853 | 33 | 0 | 0 | 4 | 4 | 1674 | 6054 | |
| 3 | Pathanamthitta | 2751 | 0 | 34 | 0 | 0 | 2343 | 4 | 113 | 0 | 7 | 7 | 1 | 5253 | |
| 4 | Alapuzha | 6237 | 1 | 0 | 462 | 0 | 819 | 7728 | 0 | 5567 | 0 | 19255 | 335 | 40404 | |
| 5 | Kottayam | 15 | 13 | 0 | 276 | 0 | 1952 | 18 | 107 | 0 | 0 | 12204 | 10 | 14595 | |
| 6 | Idukki | 1214 | 11 | 54 | 16605 | 0 | 8341 | 4150 | 0 | 68 | 0 | 1982 | 9096 | 41521 | |
| 7 | Ernakulam | 7340 | 6 | 309 | 1693 | 5 | 6965 | 465 | 3130 | 568 | 0 | 1027 | 357 | 21865 | |
| 8 | Thrissur | 19023 | 5 | 224 | 3567 | 70 | 37937 | 1716 | 991 | 561 | 0 | 4709 | 2530 | 71333 | |
| 9 | Palakkad | 42443 | 25 | 140 | 5729 | 7 | 13063 | 8741 | 514 | 7801 | 0 | 548 | 8242 | 87253 | |
| 10 | Malappuram | 2443 | 378 | 157 | 4332 | 69 | 16019 | 1362 | 1290 | 1072 | 0 | 1726 | 1356 | 30204 | |
| 11 | Kozhikkode | 989 | 8 | 0 | 513 | 1 | 2363 | 56 | 0 | 216 | 0 | 3 | 522 | 4671 | |
| 12 | Wayanad | 0 | 0 | 18 | 52 | 0 | 73 | 0 | 103 | 136 | 0 | 0 | 12123 | 12505 | |
| 13 | Kannur | 631 | 281 | 22 | 1415 | 17 | 9223 | 438 | 34 | 221 | 0 | 652 | 2281 | 15215 | |
| 14 | Kasaragod | 530 | 19 | 43 | 12141 | 15 | 28108 | 10269 | 15 | 3021 | 0 | 102 | 450 | 54713 | |
| | STATE | 88817 | 774 | 1604 | 46855 | 216 | 133313 | 35091 | 6297 | 19231 | 0 | 42219 | 39416 | 413833 | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 10
GROSS AREA UNDER IRRIGATION (CROP-WISE) 2015-16

| Sl. No. | Districts | Paddy | | | | Vegetables | Coconut | Arecanut | Cloves | Nutmegs | Banana | Betel leaves | Sugar cane | Other Crops | Total |
|---------|--------------------|------------------|--------------|--------------|---------------|--------------|---------------|--------------|------------|--------------|--------------|--------------|-------------|---------------|-------|
| | | Autumn | Winter | Summer | Total | | | | | | | | | | |
| | | Area in Hectares | | | | | | | | | | | | | |
| 1 | 2 | 3 | | | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | |
| 1 | Thiruvananthapuram | 1074 | 903 | 142 | 2119 | 2742 | 6 | 0 | 19 | 2669 | 18 | | 1891 | 12789 | |
| 2 | Kollam | 258 | 917 | 6 | 1181 | 6260 | 443 | 1 | 34 | 1591 | 24 | | 659 | 10205 | |
| 3 | Pathanamthitta | 28 | 419 | 2087 | 2534 | 1172 | 718 | 11 | 521 | 1513 | 39 | | 121 | 6643 | |
| 4 | Alappuzha | 9493 | 1576 | 19810 | 30879 | 2599 | 7537 | 13 | 129 | 472 | 36 | 40 | 1336 | 43041 | |
| 5 | Kottayam | 3573 | 4251 | 8360 | 16184 | 1903 | 61 | 2 | 1863 | 881 | 7 | | 152 | 21160 | |
| 6 | Idukki | 81 | 759 | 46 | 886 | 5713 | 767 | 105 | 1384 | 1260 | 0 | 765 | 193 | 11143 | |
| 7 | Eranakulam | 569 | 4048 | 656 | 5273 | 2399 | 10020 | 1106 | 2 | 6597 | 4 | | 3038 | 32552 | |
| 8 | Thrissur | 83 | 13688 | 8869 | 22640 | 1671 | 40437 | 4224 | 9 | 6759 | 2164 | 3 | 3594 | 81501 | |
| 9 | Palakkad | 4360 | 40912 | 3839 | 49111 | 4679 | 24807 | 3285 | 2 | 288 | 14420 | 2 | 338 | 106028 | |
| 10 | Malappuram | 9 | 3839 | 2158 | 6006 | 4171 | 19117 | 5455 | 2 | 248 | 6177 | 158 | 1988 | 43322 | |
| 11 | Kozhikode | 3 | 68 | 410 | 481 | 1249 | 2606 | 325 | 5 | 217 | 1828 | 9 | 255 | 6975 | |
| 12 | Wayanad | 0 | 8587 | 617 | 9204 | 1244 | 85 | 20 | 0 | 6718 | 2 | | 20 | 17293 | |
| 13 | Kannur | 0 | 2681 | 7 | 2688 | 2225 | 12538 | 1632 | 0 | 209 | 2312 | 13 | 767 | 22384 | |
| 14 | Kasaragod | 0 | 1042 | 288 | 1330 | 696 | 43772 | 17928 | 28 | 158 | 636 | 18 | 4046 | 68612 | |
| | STATE | 19531 | 83690 | 47295 | 150516 | 39306 | 165650 | 34127 | 237 | 18426 | 46754 | 333 | 1143 | 483048 | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE-11
RAINFALL DISTRIBUTION OF KERALA FOR THE YEAR 2015-16

| Sl. No. | Districts | 2015 | | | | | | | | | | | | 2016 | | | | Rainfall in mm. | |
|---------|--------------------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|--------|--------|-------------|--|-----------------|--|
| | | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Actual | Normal | Departure % | | | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | |
| 1 | Thiruvananthapuram | 60.6 | 71.4 | 307.1 | 367.0 | 275.8 | 152.3 | 3.2 | 3.7 | 19 | 57.9 | 429.1 | 395.0 | 2142.1 | 1803.2 | 18.8 | | | |
| 2 | Kollam | 185.0 | 141.1 | 247.6 | 386.0 | 307.6 | 68.6 | 1.0 | 50.3 | 54.6 | 64.8 | 384.4 | 508.5 | 2399.5 | 2491.7 | -3.7 | | | |
| 3 | Pathanamthitta | 186.1 | 269.1 | 347.8 | 546.4 | 336.0 | 74.6 | 0.5 | 4.6 | 70 | 114.2 | 427.4 | 459.4 | 2836.1 | 2958.4 | -4.1 | | | |
| 4 | Alappuzha | 235.7 | 188.4 | 238.4 | 375.9 | 189.7 | 120.4 | 5.9 | 52.1 | 43.5 | 24.6 | 296.0 | 524.0 | 2294.6 | 2841.2 | -19.2 | | | |
| 5 | Kottayam | 306.8 | 293.1 | 374.1 | 402.9 | 203.0 | 116.2 | 11.5 | 43.3 | 72.5 | 55.8 | 318.7 | 630.6 | 2828.5 | 2930.5 | -3.5 | | | |
| 6 | Idukki | 436.3 | 270.7 | 343.8 | 253.6 | 248.1 | 125.2 | 5.1 | 5.1 | 26.1 | 37.9 | 458.6 | 586.3 | 2796.8 | 3302.5 | -15.3 | | | |
| 7 | Eranakulam | 367.2 | 241.2 | 393.5 | 355.0 | 470.5 | 175.7 | 0.4 | 91.4 | 3.4 | 43.4 | 322.8 | 624.6 | 3089.1 | 3029.9 | 2.0 | | | |
| 8 | Thrissur | 463.2 | 277.5 | 314.3 | 274.4 | 187.3 | 91.6 | 10.8 | 4.0 | 6.2 | 37.2 | 257.5 | 588.4 | 2512.4 | 3063.1 | -18.0 | | | |
| 9 | Palakkad | 281.8 | 219.2 | 193.3 | 140.9 | 180.4 | 42.8 | 0.2 | 0.0 | 4.2 | 4.1 | 169.2 | 461.5 | 1697.6 | 2280.2 | -25.6 | | | |
| 10 | Malappuram | 411.5 | 264.0 | 266.8 | 291.0 | 232.0 | 35.4 | 0.0 | 1.8 | 2.3 | 4.1 | 154.5 | 585.2 | 2248.6 | 2837.5 | -20.8 | | | |
| 11 | Kozhikode | 780.5 | 256.9 | 290.1 | 351.4 | 199.3 | 8.0 | 0.0 | 0.0 | 29.9 | 5.7 | 260.1 | 916.4 | 3098.3 | 3335.1 | -7.1 | | | |
| 12 | Wayanad | 304.3 | 226.1 | 232.5 | 154.1 | 113.4 | 33.4 | 3.3 | 0.0 | 12.6 | 19.8 | 112.8 | 411.2 | 1623.5 | 3253.1 | -50.1 | | | |
| 13 | Kannur | 803.0 | 352.9 | 317.2 | 330.8 | 167.0 | 28.6 | 0.0 | 0.0 | 0.8 | 1.0 | 138.4 | 801.8 | 2941.5 | 3319.1 | -11.4 | | | |
| 14 | Kasaragod | 846.5 | 432.7 | 198.2 | 296.0 | 92.1 | 19.1 | 2.9 | 0.5 | 0 | 0.1 | 138.3 | 945.5 | 2971.9 | 3621.6 | -17.9 | | | |
| | State (Average)* | 406.6 | 252.3 | 292.1 | 309.9 | 233.8 | 77.7 | 2.9 | 16.4 | 22.0 | 32.2 | 276.9 | 596.1 | 2518.8 | 2921.4 | -13.8 | | | |

Source: - India Meteorological Department
*Area weighted Average of district values

TABLE - 12

Farm Wholesale Price of Agricultural Commodities For the year 2015-2016

| Sl. No | Name of Commodity | Unit | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Jun-16 |
|--------|---------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | Paddy Local | Rs./Qtl | 1559.38 | 1631.25 | 1653.13 | 1723.08 | 1825.78 | 1722.73 | 1752.08 | 1806.25 | 1708.59 | 1722.22 | 1712.86 | 1666.67 |
| 2 | Paddy H/y | Rs./Qtl | 1533.46 | 1533.85 | 1581.07 | 1662.75 | 1752.50 | 1655.63 | 1715.38 | 1745.75 | 1799.86 | 1844.71 | 1745.40 | 1633.53 |
| 3 | Coconut(With Husk) | Rs./100Nos. | 1268.43 | 1291.57 | 1267.31 | 1266.16 | 1238.51 | 1184.86 | 1158.77 | 1088.02 | 1001.25 | 965.53 | 933.50 | 910.94 |
| 4 | Arecanut(Ripe) | Rs./100Nos. | 170.17 | 151.65 | 138.49 | 132.16 | 126.79 | 115.48 | 118.92 | 127.21 | 129.80 | 145.28 | 157.14 | 155.25 |
| 5 | Cashewnut | Rs./Qtl | - | - | - | - | - | - | 9800.00 | 9681.82 | 9618.33 | 10055.26 | 8636.90 | 6700.00 |
| 6 | Pepper(Dry) | Rs./Qtl | 60427.78 | 61164.29 | 61227.91 | 63260.71 | 66697.62 | 62238.64 | 60401.02 | 60002.00 | 61478.72 | 66244.32 | 67282.95 | 66945.12 |
| 7 | Ginger | Rs./Qtl | 6397.50 | 6346.67 | 5341.38 | 4377.68 | 4557.50 | 3916.18 | 3588.10 | 3427.22 | 3627.72 | 3781.94 | 4656.67 | 5213.79 |
| 8 | Ginger Dry | Rs./Qtl | 15500.00 | 17000.00 | 17250.00 | 15000.00 | 13500.00 | 16650.00 | 15750.00 | 15416.67 | 14392.86 | 13935.71 | 12450.00 | 12110.00 |
| 9 | Sesamum | Rs./Kg | | | | | | | | | | | | 110.00 |
| 10 | Cloves | Rs./Kg | 781.07 | 776.25 | 799.38 | 766.88 | 765.36 | 770.00 | 757.19 | 727.19 | 705.56 | 713.44 | 712.50 | 712.50 |
| 11 | Nutmeg | Rs./Kg | 240.58 | 216.99 | 198.41 | 201.40 | 214.53 | 218.19 | 219.28 | 206.01 | 204.13 | 202.38 | 194.88 | 181.96 |
| 12 | Tapioca | Rs./Qtl | 931.14 | 997.32 | 1033.33 | 1048.28 | 1062.50 | 1051.72 | 1055.93 | 1087.72 | 1148.66 | 1246.88 | 1334.09 | 1359.55 |
| 13 | Turmeric Dry | Rs./Qtl | 9406.25 | 8716.67 | 8312.50 | 8200.00 | 7814.29 | 8080.00 | 9800.00 | 10643.75 | 11410.00 | 11300.00 | 10873.08 | 10005.56 |
| 14 | Banana (local) | Rs./Qtl | 3459.32 | 3528.75 | 2815.68 | 2441.10 | 2129.24 | 2297.46 | 3012.08 | 3366.81 | 3399.14 | 3772.84 | 4081.90 | 4694.74 |
| 15 | Plantain (palayam thodan) | Rs./Qtl | 1291.39 | 1360.00 | 1338.11 | 1277.87 | 1148.36 | 1062.70 | 1125.82 | 1145.21 | 1156.67 | 1191.25 | 1359.43 | 1807.20 |
| 16 | Plantain (Rasakadali) | Rs./Qtl | 2587.71 | 2859.02 | 2947.37 | 2630.42 | 2350.42 | 2172.88 | 2232.63 | 2235.34 | 2273.28 | 2309.48 | 2793.53 | 3676.27 |
| 17 | Plantain (Poovan) | Rs./Qtl | 2824.38 | 2899.39 | 2839.02 | 2733.33 | 2585.23 | 2423.81 | 2548.30 | 2573.37 | 2611.36 | 2635.33 | 2963.83 | 3641.30 |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 13

COST OF CULTIVATION PER HECTARE OF SOME CROPS DURING THE YEAR 2014-15

| Sl. No | Component of different crops | Cost per Hectare (Rs.) | | | | | | | | | | | In Rupees | | |
|-----------|---|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|-----------|--|--|
| | | Paddy | | | Coconut | Areca nut | Tapioca | Banana | Pepper | Ginger | Turmeric | | | | |
| | | Autumn | Winter | Summer | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | |
| 1 | Hired human labour | 28511 | 25652 | 28477 | 34613 | 36880 | 42824 | 58509 | 39107 | 41185 | 45100 | | | | |
| 2 | Animal labour | 55 | 172 | 10 | 0 | 45 | 0 | 32 | 0 | 0 | 0 | | | | |
| 3 | Machine labour | 8024 | 8420 | 9924 | 275 | 319 | 1685 | 1398 | 232 | 1440 | 1215 | | | | |
| 4 | Seed/Seedlings | 2130 | 2518 | 2928 | 380 | 297 | 2491 | 19816 | 429 | 27529 | 16078 | | | | |
| 5 | Farmyard manure & Chemical fertilizers | 5132 | 6132 | 5199 | 8985 | 6474 | 10846 | 28397 | 6646 | 21774 | 15906 | | | | |
| 6 | Plant protection | 368 | 795 | 251 | 119 | 189 | 205 | 1302 | 255 | 309 | 508 | | | | |
| 7 | Land tax & irrigation cess | 133 | 189 | 349 | 189 | 265 | 304 | 302 | 144 | 282 | 288 | | | | |
| 8 | Repair & Maintenance charges of implements, machinery & buildings | 267 | 413 | 386 | 449 | 1727 | 428 | 695 | 1011 | 1635 | 1131 | | | | |
| 9 | Interest on working capital | 2405 | 2440 | 2456 | 4723 | 4698 | 6290 | 11903 | 5104 | 9809 | 8186 | | | | |
| 10 | Other expenses | 3870 | 5120 | 2332 | 2855 | 2771 | 4852 | 9579 | 4372 | 5853 | 3055 | | | | |
| 11 | Total Cost 'A' (1-10) | 50895 | 51851 | 52312 | 52588 | 53665 | 69925 | 131933 | 57300 | 109816 | 91467 | | | | |
| 12 | Interest on fixed capital | 391 | 813 | 323 | 2320 | 4069 | 835 | 1476 | 2133 | 1704 | 1708 | | | | |
| 13 | Cost B1 (11+12) | 51286 | 52664 | 52635 | 54908 | 57734 | 70760 | 133409 | 59433 | 111520 | 93175 | | | | |
| 14 | Interest on land value | 58321 | 50850 | 61435 | 611734 | 440851 | 402813 | 449831 | 469893 | 369463 | 377829 | | | | |
| 15 | Cost 'B' (13+14) | 109607 | 103514 | 114070 | 666642 | 498585 | 473573 | 583240 | 529326 | 480983 | 471004 | | | | |
| 16 | Imputed value of household labour | 4771 | 4737 | 5160 | 7087 | 7946 | 13460 | 24956 | 14284 | 13118 | 17697 | | | | |
| 17 | Cost 'C' (15+16) | 114378 | 108251 | 119230 | 673729 | 506531 | 487033 | 608196 | 543610 | 494101 | 488701 | | | | |
| 18 | Value of output received (Rs./Ha) | 68512 | 71687 | 73153 | 96408 | 107163 | 216957 | 399863 | 187414 | 182328 | 152162 | | | | |

Source Directorate of Economics & Statistics, Dept. of Agriculture & Co-operation

TABLE - 14
DISTRICTWISE RAINFALL IN MMS FOR THE YEAR 2016

| DISTRICT | JAN | FEB | MAR | APRIL | MAY | JUNE | JULY | AUG | SEPT | ANNUAL |
|--------------------|------|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| ALAPPUZHA | 29.9 | 0.9 | 86.2 | 40.3 | 287.9 | 544.7 | 280.4 | 323.5 | 437.2 | 1765.3 |
| KANNUR | 11.5 | 0.0 | 6.1 | 48.2 | 181.2 | 694.3 | 623.6 | 553.0 | 430.4 | 2215.6 |
| ERNAKULAM | 16.8 | 0.0 | 97.9 | 31.4 | 306.0 | 706.3 | 435.4 | 415.8 | 445.3 | 2325.9 |
| IDUKKI | 12.8 | 1.1 | 122.2 | 71.1 | 210.0 | 517.9 | 293.4 | 713.1 | 533.2 | 2110.5 |
| KASARAGOD | 18.1 | 0.0 | 0.0 | 15.5 | 71.8 | 858.7 | 752.8 | 702.8 | 331.4 | 2486.0 |
| KOLLAM | 21.5 | 1.3 | 147.6 | 137.7 | 356.8 | 532.5 | 128.5 | 282.4 | 412.2 | 1912.8 |
| KOTTAYAM | 27.8 | 0.2 | 128.3 | 58.2 | 315.9 | 654.0 | 342.3 | 450.3 | 481.6 | 2084.9 |
| KOZHIKODE | 7.7 | 0.1 | 21.3 | 68.1 | 251.8 | 822.5 | 662.9 | 544.6 | 491.6 | 2257.6 |
| MALAPPURAM | 4.0 | 0.0 | 29.4 | 26.6 | 122.9 | 568.8 | 427.0 | 459.7 | 471.4 | 1532.0 |
| PALAKKAD | 0.0 | 0.0 | 83.1 | 28.3 | 139.5 | 433.2 | 317.2 | 398.0 | 373.4 | 1349.9 |
| PATHANAMTHITTA | 30.9 | 0.0 | 314.5 | 100.0 | 260.1 | 553.7 | 204.8 | 454.3 | 541.2 | 2137.9 |
| THIRUVANANTHAPURAM | 5.0 | 0.0 | 85.0 | 54.2 | 228.3 | 318.8 | 52.9 | 123.0 | 269.3 | 1197.6 |
| THRISSUR | 1.4 | 0.0 | 43.6 | 12.9 | 175.7 | 674.8 | 419.3 | 427.2 | 354.7 | 1687.4 |
| WAYANAD | 14.5 | 0.0 | 49.7 | 60.9 | 182.8 | 343.2 | 419.6 | 435.0 | 454.2 | 1327.1 |
| AVERAGE FOR KERALA | 12.7 | 0.3 | 87.8 | 52.8 | 213.3 | 579.8 | 378.5 | 462.6 | 434.9 | 1870.3 |

Source India Meteorological Department

TABLE - 15
DISTRICTWISE RAINFALL IN MMS FOR THE YEAR 2017

| DISTRICT | JAN | FEB | MAR | APRIL | MAY | JUNE | JULY | AUG | SEPT |
|--------------------|------|-----|-------|-------|-------|-------|-------|-------|-------|
| ALAPPUZHA | 29.9 | 0.9 | 86.2 | 40.3 | 287.9 | 544.7 | 280.4 | 323.5 | 437.2 |
| KANNUR | 11.5 | 0.0 | 6.1 | 48.2 | 181.2 | 694.3 | 623.6 | 553.0 | 430.4 |
| ERNAKULAM | 16.8 | 0.0 | 97.9 | 31.4 | 306.0 | 706.3 | 435.4 | 415.8 | 445.3 |
| IDUKKI | 12.8 | 1.1 | 122.2 | 71.1 | 210.0 | 517.9 | 293.4 | 713.1 | 533.2 |
| KASARAGOD | 18.1 | 0.0 | 0.0 | 15.5 | 71.8 | 858.7 | 752.8 | 702.8 | 331.4 |
| KOLLAM | 21.5 | 1.3 | 147.6 | 137.7 | 356.8 | 532.5 | 128.5 | 282.4 | 412.2 |
| KOTTAYAM | 27.8 | 0.2 | 128.3 | 58.2 | 315.9 | 654.0 | 342.3 | 450.3 | 481.6 |
| KOZHIKODE | 7.7 | 0.1 | 21.3 | 68.1 | 251.8 | 822.5 | 662.9 | 544.6 | 491.6 |
| MALAPPURAM | 4.0 | 0.0 | 29.4 | 26.6 | 122.9 | 568.8 | 427.0 | 459.7 | 471.4 |
| PALAKKAD | 0.0 | 0.0 | 83.1 | 28.3 | 139.5 | 433.2 | 317.2 | 398.0 | 373.4 |
| PATHANAMTHITTA | 30.9 | 0.0 | 314.5 | 100.0 | 260.1 | 553.7 | 204.8 | 454.3 | 541.2 |
| THIRUVANANTHAPURAM | 5.0 | 0.0 | 85.0 | 54.2 | 228.3 | 318.8 | 52.9 | 123.0 | 269.3 |
| THRISSUR | 1.4 | 0.0 | 43.6 | 12.9 | 175.7 | 674.8 | 419.3 | 427.2 | 354.7 |
| WAYANAD | 14.5 | 0.0 | 49.7 | 60.9 | 182.8 | 343.2 | 419.6 | 435.0 | 454.2 |
| AVERAGE FOR KERALA | 12.7 | 0.3 | 87.8 | 52.8 | 213.3 | 579.8 | 378.5 | 462.6 | 434.9 |

Source India Meteorological Department

TABLE -16

| Sl.No | Stations | Temperature - Monthly mean Maximum and Minimum Temperatures of Observatories in Kerala, Year: 2016 (°C) | | | | | | | | | | | |
|-------|-------------------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1 | Alappuzha | 34.8 | 34.9 | 35.5 | 35.7 | 34.0 | 30.1 | 30.4 | 31.9 | 31.8 | 32.6 | 32.7 | 33.5 |
| | Minimum | 23.6 | 24.9 | 26.3 | 28.0 | 25.8 | 24.0 | 24.0 | 24.4 | 24.2 | 24.4 | 24.3 | 23.8 |
| 2 | Kozhikode city | 35.4 | 35.8 | 37.1 | 37.9 | 36.5 | 31.2 | 31.0 | 32.2 | 31.9 | 33.5 | 34.5 | 34.2 |
| | Minimum | 23.7 | 25.2 | 27.2 | 28.5 | 27.0 | 24.4 | 24.0 | 24.5 | 24.4 | 24.9 | 24.8 | 23.6 |
| 3 | Kannur | 35.5 | 36.6 | 37.8 | 37.9 | 36.9 | 30.6 | 29.7 | 30.7 | 30.7 | 32.7 | 33.4 | 33.7 |
| | Minimum | 23.2 | 24.8 | 26.7 | 28.1 | 26.7 | 24.2 | 24.1 | 24.5 | 24.1 | 24.4 | 24.0 | 22.9 |
| 4 | Karipur Airport | 33.3 | 34.4 | 35.1 | 35.2 | 34.0 | 29.7 | 29.5 | 29.9 | 29.8 | 31.1 | 32.4 | 32.2 |
| | Minimum | 22.3 | 23.6 | 25.9 | 27.1 | 25.5 | 23.3 | 23.0 | 23.4 | 23.1 | 23.3 | 23.3 | 22.0 |
| 5 | Naval Air Station Kochi | 32.5 | 33.4 | 34.1 | 34.8 | 33.9 | 31.0 | 30.7 | 31.3 | 30.6 | 30.9 | 31.8 | 31.9 |
| | Minimum | 23.9 | 24.6 | 26.7 | 27.4 | 25.7 | 24.2 | 23.6 | 24.2 | 24.5 | 24.5 | 24.4 | 24.0 |
| 6 | Punalur | 34.7 | 35.8 | 36.7 | 36.4 | 34.7 | 31.1 | 31.4 | 31.9 | 32.2 | 33.1 | 32.9 | 33.0 |
| | Minimum | 20.0 | 20.9 | 22.7 | 24.4 | 23.4 | 23.1 | 23.5 | 23.6 | 23.3 | 22.9 | 22.4 | 21.7 |
| 7 | Kottayam | 33.6 | 34.3 | 35.4 | 35.4 | 34.0 | 30.4 | 30.4 | 31.2 | 31.5 | 32.4 | 32.6 | 32.9 |
| | Minimum | 22.6 | 23.7 | 25.1 | 26.4 | 24.7 | 23.4 | 23.2 | 22.9 | 22.2 | 22.2 | 22.7 | 22.4 |
| 8 | CIAL Kochi | 34.0 | 34.8 | 34.4 | 35.3 | 33.8 | 30.2 | 30.1 | 30.7 | 30.7 | 31.8 | 32.7 | 32.9 |
| | Minimum | 21.3 | 22.2 | 24.3 | 26.7 | 24.8 | 23.6 | 23.4 | 23.8 | 23.9 | 23.6 | 23.7 | 22.0 |
| 9 | Trivandrum city | 33.4 | 34.1 | 34.9 | 35.1 | 33.1 | 30.7 | 31.1 | 31.7 | 31.6 | 32.4 | 32.1 | 33.1 |
| | Minimum | 23.4 | 24.4 | 25.9 | 27.3 | 25.6 | 24.1 | 24.2 | 24.6 | 24.4 | 24.2 | 24.0 | 23.5 |
| 10 | Trivandrum AP | 32.3 | 32.6 | 33.8 | 34.4 | 33.0 | 31.0 | 30.8 | 31.0 | 30.2 | 31.0 | 31.2 | 31.5 |
| | Minimum | 23.3 | 24.4 | 26.1 | 27.7 | 25.9 | 24.4 | 24.2 | 24.7 | 24.5 | 24.6 | 24.6 | 24.0 |
| 11 | Vellanikkara | 33.2 | 35.3 | 36.3 | 35.8 | 34.0 | 29.8 | 29.9 | 30.4 | 30.3 | 31.5 | 33.0 | 32.4 |
| | Minimum | 23.0 | 23.4 | 25.2 | 26.3 | 24.1 | 21.7 | 21.6 | 23.2 | 23.6 | 22.7 | 22.2 | 22.3 |
| 12 | Palakkad | 32.6 | 35.7 | 38.4 | 39.9 | 36.4 | 30.5 | 29.6 | 30.7 | 31.0 | 33.1 | 33.6 | 32.8 |
| | Minimum | 23.6 | 24.8 | 26.3 | 27.5 | 26.0 | 24.0 | 23.5 | 23.9 | 23.7 | 24.1 | 23.8 | 23.2 |

SOILS OF KERALA

Coastal Alluvium

These soils of marine origin are identified along the coastal plains and basin lands as a narrow strip. The soils of the coastal plains are very deep with sandy texture. These soils have high water table, the water holding capacity is poor due to the predominance of sand.

Alluvium

These soils occur 20m below MSL and is mainly noticed close to coastal alluvium, Kuttanad and adjacent area and kole lands of Thrissur district. The soils are frequently flooded and submerged. Sandy clay loam to clay is the predominant texture and medium fertility status is the general trend.

Kari Soils (Acid Sulphate Soils)

The major occurrence is identified at Purakkad, Vaikom, Kaduthuruthy and Thuravur. The area generally lies at or below MSL and is subject to frequent flooding and water stagnation. These soils have relatively high proportion of organic residues and severe soil and environmental limitations, which pose a threat to crop production. The soil is heavy in texture, poorly aerated and ill drained. The texture of the soil ranges from sandy clay to clay with intermediate texture of silty clay loam and clay loam. Even though these soils have medium to high general fertility status, high acidity, salinity, presence of toxic materials and submergence restrict crop selection to paddy.

Red soils

They are localised in occurrence and are found mostly in the southern parts of Thiruvananthapuram district and in pockets in catenary sequence along the foot slopes of laterite hills and mounds. A variety of crops such as coconut, arecanut, banana, yams, pineapple, vegetables, fruit trees etc., can be grown under proper management.

Laterite Soils

These soils mainly occur in the midlands at elevation 20 to 100m above M.S.L. as a strip between the coastal belt and hilly midupland. All these laterite soils are acidic with low water holding capacity, soil erosion and reduced effective soil volume. The laterite soil is generally suitable for most of the dryland crops. It is mainly cultivated with coconut, arecanut, banana, tapioca, vegetables, yams, pepper, pineapple, fruit trees etc.

Hill Soils

The texture of these soils generally ranges from loam to clay loam with average gravel content of 10 to 50%. The area is suitable for all dryland crops like rubber, coconut, arecanut and fruit trees based on the lie of the land. Crops such as banana, pepper, pineapple, vegetables can be grown in foot slopes.

Black Cotton Soils

These soils are identified in alluvial plains, terraces and undulating plains of Chittur taluk in Palakkad district in patches. These soils are very deep, black and calcareous. The texture of the soil ranges from clay loam to clay. The pH of the soil ranges from 6.5 to 8.5. A variety of crops such as coconut, sugarcane, groundnut, cotton, chilly, pulses and vegetables are grown here.

Forest Soil

The texture of the soil ranges from sandy clay loam to clay with reddish brown to very dark brown colour. Infertility status is medium to high. Forest trees, shrubs and grasses etc. are grown here.

SOIL TYPES IN KERALA (DISTRICT-WISE)

| District | Type of soil | Details of location |
|--------------------|--|--|
| Thiruvananthapuram | Fairy rich brown loam of laterite sandy loam | Middle part of the district Western coastal region |
| | Rich dark brown loam of granite origin | Eastern hilly parts of the district |
| Kollam | Sandy loam Laterite soil | Karunagappally and part of Kollam taluks Kottarakkara, Kunnathur and parts of Kollam and Pathanapuram taluks |
| Pathanamthitta | Clay soil Laterite soil | Western and Eastern hilly regions Parts of Ranni and Kozhencheri taluks |
| Alappuzha | Sandy loam Sandy soil Clayey loam with much acidity Laterite soil | Karthikappally and parts of Mavelikkara Cherthala and Ambalapuzha taluks Kuttanad Chengannur and part of Mavelikara taluks |
| Kottayam | Laterite soil Aluvial soil | Parts of Changanacherry and Kottayam, Kanjirappally and Mennachal taluks Vaikom taluk and part of Changanacherry and Kottayam taluks |
| Idukki | Laterite soil Aluvial soil | Peermade and Thodupuzha taluks Devicolam and Udumbanchola taluks |
| Ernakulam | Laterite soil Sandy loam Alluvial soil | Muvattupuzha, Kothamangalam and part of Aluva and Kunnathunad taluks Parur, Kochi and Kanayannur taluks Parts of Aluva and Kunnathunad taluks |
| Thrissur | Sandy loam Laterite soil Clayey soil | Part of Mukundapuram, Thrissur and Chavakkad taluks Eastern part of Thrissur and Western part of Thalappally taluks Back-water area of Chavakkad and Mukundapuram taluk |
| Palakkad | Aluvial soil Laterite soil Black soil | Portions of Chavakkad taluk Major part of the district North-Eastern part of Chittur taluk |
| Malappuram | Laterite soil Sandy soil | Interior region of the district Along the coastal belt on the district |
| Kozhikode | Laterite soil Sandy soil | Major part of the district except coastal strip Coastal strip |
| Wayanad | Laterite soil Loamy soil | Major part of the district Valleys in the middle portion of the district |
| Kannur | Laterite soil Sandy soil | Major part of the district except coastal strip coastal strip |
| Kasargod | Laterite soil Sandy soil | Major part of the district except coastal strip Coastal strip |

CULTIVATED CROPS OF KERALA

| Common name | Malayalam name | Botanical name | Family |
|-----------------------|----------------|-------------------------------------|----------------|
| (1) | (2) | (3) | (4) |
| | | Cereals | |
| Chama (Little millet) | Chama | <i>Panicum sumatrense</i> | Poaceae |
| Kodo millet | Varagu | <i>Paspalum scorbiculatum</i> | Poaceae |
| Maize | Cholam | <i>Zea mays</i> | Poaceae |
| Rice | Nellu | <i>Oryza sativa</i> | Poaceae |
| Ragi (Finger millet) | Koovaraku | <i>Eleusine coracana</i> | Poaceae |
| | | Pulses | |
| Black gram | Uzhunnu | <i>Vigna mungo</i> | Fabaceae |
| Cowpea | Perumpayar | <i>Vigna unguiculata</i> | Fabaceae |
| Green gram | Cherupayar | <i>Vigna radiata</i> | Fabaceae |
| Horse gram | Muthira | <i>Macrotyloma uniflorum</i> | Fabaceae |
| Red gram | Thuvarappayar | <i>Cajanus cajan</i> | Fabaceae |
| Green Pea | Green peas | <i>Pisum sativum</i> | Fabaceae |
| Soybean | Soyabean | <i>Glycine max</i> | Fabaceae |
| | | Tubers | |
| Arrow root | Koova | <i>Maranta arundinaceae</i> | Marantaceae |
| Chinese Potato | Koorka | <i>Plectranthes rotundifolius</i> | Labiatae |
| Taro | Chembu | <i>Colocasia esculenta</i> | Araceae |
| Elephant Foot Yam | Chena | <i>Amorphophallus paeoniifolius</i> | Araceae |
| Potato | Urulakizhangu | <i>Solanum tuberosum</i> | Solanaceae |
| Radish | Mullangi | <i>Raphanus sativus</i> | Brassicaceae |
| Sweet potato | Cheenikizhangu | <i>Ipomoea batatas</i> | Convolvulaceae |
| Turnip | Seemamullangi | <i>Brassica rapa</i> | Brassicaceae |
| Tannia(Xanthosoma) | Palchembu | <i>Xanthosoma sagittifolium</i> | Araceae |
| Tapioca | Maracheeni | <i>Manihot esculenta</i> | Euphorbiaceae |
| Greater Yam | Kachil | <i>Dioscorea alata</i> | Dioscoreaceae |
| Lesser Yam | Cherukizhangu | <i>Dioscorea esculenta</i> | Dioscoreaceae |
| White Yam | African Kachil | <i>Dioscorea rotundata</i> | Dioscoreaceae |
| Yam bean | Pachyrrhizus | <i>Pachyrrhizus erosus</i> | Fabaceae |
| Coleus | Korkka | <i>Solenostemon rotundifolius</i> | Lamiaceae |
| | | Vegetables | |
| Brinjal | Vazhuthana | <i>Solanum melongena</i> | Solanaceae |
| Tomato | Thakkali | <i>Solanum lycopersicum</i> | Solanaceae |
| Chilli | Mulaku | <i>Capsicum annum</i> | Solanaceae |
| Amaranth | Cheera | <i>Amaranthus spp.</i> | Amaranthaceae |
| Okra | Venda | <i>Abelmoschus esculentus</i> | Malvaceae |
| Bitter gourd | Paval | <i>Momordica charantia</i> | Cucurbitaceae |
| Bottle gourd | Churakka | <i>Lagenaria siceraria</i> | Cucurbitaceae |
| Snake gourd | Padavalam | <i>Trichosanthes cucumerina</i> | Cucurbitaceae |
| Ridge gourd | Peechanga | <i>Luffa acutangula</i> | Cucurbitaceae |
| Ash gourd | Kumbalam | <i>Benincasa hispida</i> | Cucurbitaceae |
| Cucumber | Vellari | <i>Cucumis sativus</i> | Cucurbitaceae |
| Water Melon | Thannimathan | <i>Citrullus lanatus</i> | Cucurbitaceae |
| Little gourd | Koval | <i>Coccinia grandis</i> | Cucurbitaceae |
| Sword bean | Valaringa | <i>Canavalia gladiata</i> | Fabaceae |

| | | | |
|-------------|---------------|---------------------------|----------------|
| French bean | Beans | <i>Phaseolus vulgaris</i> | Fabaceae |
| Beet root | Beet root | <i>Beta vulgaris</i> | Chenopodiaceae |
| Indian bean | Amara | <i>Lablab purpureus</i> | Fabaceae |
| Drumstick | Muringa | <i>Moringa oleifera</i> | Moringaceae |
| Musk melon | Thaikumbalam | <i>Cucumis melo</i> | Cucurbitaceae |
| Pumpkin | Mathan | <i>Cucurbita moschata</i> | Cucurbitaceae |
| Red pumpkin | Vellarimathan | <i>Cucurbita maxima</i> | Cucurbitaceae |

Cool season vegetables

| | | | |
|-------------|-------------|--|--------------|
| Cabbage | Muttakose | <i>Brassica oleracea</i> var. <i>capitata</i> | Brassicaceae |
| Carrot | Carrot | <i>Daucus carota</i> | Apiaceae |
| Cauliflower | Cauliflower | <i>Brassica oleracea</i> var. <i>botrytis</i> | Brassicaceae |
| Radish | Mullangi | <i>Raphanus sativus</i> | Brassicaceae |
| Onion | Ulli | <i>Allium cepa</i> | Liliaceae |

Fruits

| | | | |
|--------------------|--------------------|---------------------------------|----------------|
| Banana | Vazha | <i>Musa spp.</i> | Musaceae |
| Bread fruit | Seemachakka | <i>Artocarpus altilis</i> | Moraceae |
| Bullock's heart | Malamunthiri | <i>Annona reticulata</i> | Annonaceae |
| Cashew | Kasuvandi | <i>Anacardium occidentale</i> | Anacardiaceae |
| Sweet-sop | Seethapazham | <i>Annona squamosa</i> | Annonaceae |
| Grapes | Munthiringa | <i>Vitis vinifera</i> | Vitaceae |
| Guava | Perakka | <i>Psidium guajava</i> | Myrtaceae |
| Indian Gooseberry | Nellikka | <i>Phyllanthus embica</i> | Phyllanthaceae |
| Jack | Chakka | <i>Artocarpus heterophyllus</i> | Moraceae |
| Jujube | Elantha | <i>Zizyphus jujuba</i> | Rhamnaceae |
| Lemon | Naranga | <i>Citrus lemon</i> | Rutaceae |
| Lime | Cherunaranga | <i>Citrus aurantifolia</i> | Rutaceae |
| Mandarin | Orange | <i>Citrus reticulata</i> | Rutaceae |
| Mango | Manga | <i>Mangifera indica</i> | Anacardiaceae |
| Mangosteen | Mangosteen | <i>Garcinia mangostana</i> | Clusiaceae |
| Papaya | Pappakka | <i>Carica papaya</i> | Caricaceae |
| Pineapple | Kaithachakka | <i>Ananas comosus</i> | Bromeliaceae |
| Pomegranate | Mathalanaranga | <i>Punica granatum</i> | Punicaceae |
| Pomelo | Bamplimas | <i>Citrus decumana</i> | Rutaceae |
| Sapota | Sapota | <i>Manilkara zapota</i> | Sapotaceae |
| West Indian cherry | West Indian cherry | <i>Malpighia puniceifolia</i> | Malpighiaceae |

Spices & Condiments

| | | | |
|--------------|-------------|--|---------------|
| Cardamom | Elam | <i>Elettaria cardamomum</i> | Zingiberaceae |
| Cinnamon | Karuvapatta | <i>Cinnamomum zeylanicum</i> | Lauraceae |
| Clove | Grambu | <i>Syzygium aromaticum</i> | Myrtaceae |
| Vanilla | Vanilla | <i>Vanilla planifolia</i> | Orchidaceae |
| Ginger | Inchi | <i>Zingiber officinale</i> | Zingiberaceae |
| Mango ginger | Manga inchi | <i>Curcuma amada</i> | Zingiberaceae |
| Nutmeg | Jathika | <i>Myristica fragrans</i> | Myristicaceae |
| Pepper | Kurumulaku | <i>Piper nigrum</i> | Piperaceae |
| Camboge | Kudampuli | <i>Garcinia gummi-gutta</i> var. <i>gummi-gutta</i> | Clusiaceae |
| Tamarind | Puli | <i>Tamarindus indicus</i> | Leguminosae |
| Turmeric | Manjal | <i>Curcuma longa</i> | Zingiberaceae |
| Chilli | Mulaku | <i>Capsicum annum</i> | Solanaceae |

| | | | |
|---------------------------|---------------|--|------------------|
| Coriander | Kothamalli | <i>Coriandrum sativum</i> | Apiaceae |
| Indian mustard | Kaduku | <i>Brassica juncea</i> | Brassicaceae |
| Cumin | Jeerakam | <i>Cuminum cyminum</i> | Apiaceae |
| Garlic | Veluthulli | <i>Allium sativum</i> | Liliaceae |
| Long Pepper | Thippali | <i>Piper longum</i> | Piperaceae |
| Cinchona | Cinchona | <i>Cinchona officinalis</i> | Rubiaceae |
| Allspice | Allspice | <i>Pimenta dioica</i> | Myrtaceae |
| Fennel | Perumjeerakam | <i>Foeniculum vulgare</i> | Apiaceae |
| Oil Seeds | | | |
| Coconut | Thengu | <i>Cocos nucifera</i> | Arecaceae |
| Sesamum | Ellu | <i>Sesamum indicum</i> | Pedaliaceae |
| Groundnut | Nilakkadala | <i>Arachis hypogaea</i> | Fabaceae |
| Indian Mustard | Kaduku | <i>Brassica juncea</i> <i>spp. juncea</i> | Brassicaceae |
| Castor | Avanakku | <i>Ricinus communis</i> | Euphorbiaceae |
| Oil Palm | Ennappana | <i>Elaeis guineensis</i> | Arecaceae |
| Commercial Groups | | | |
| Cashew | Kasuvandi | <i>Anacardium occidentale</i> | Anacardiaceae |
| Cotton | Paruthi | <i>Gossypium sp</i> | Malvaceae |
| Rubber | Rubber | <i>Hevea Brasilienses</i> | Euphorbiaceae |
| Sugarcane | Karimbu | <i>Saccharum officinarum</i> | Poaceae |
| Beverages | | | |
| Coffee | Kappi | <i>Coffea spp.</i> | Rubiaceae |
| Tea | Theyila | <i>Camellia sinensis</i> | Theaceae |
| Cocoa | Cocoa | <i>Theobroma cacao</i> | Sterculiaceae |
| Stimulants | | | |
| Areca nut | Kamuku | <i>Areca catechu</i> | Arecaceae |
| Betel vine | Vettila | <i>Piper betle</i> | Piperaceae |
| Tobacco | Pukayila | <i>Nicotiana tabacum</i> | Solanaceae |
| Green Manure Crops | | | |
| Gliricidia | Seemakonna | <i>Gliricidia maculata</i> | Fabaceae |
| Crotalaria(Striped) | Kilukki | <i>Crotalaria mucronata</i> | Fabaceae |
| Sunn hemp | Kattuchanambu | <i>Crotalaria juncea</i> | Fabaceae |
| Daincha | Daincha | <i>Sesbania aculeata</i> | Fabaceae |
| Calapagonium | Calapagonium | <i>Calapogonium muconoides</i> | Fabaceae |
| Kudzu vine | Kudzu payer | <i>Pueraria javanica</i> | Fabaceae |
| Wild indigo | Kozhinji | <i>Tephrosia purpurea</i> | Fabaceae |
| Subabul | Sabubal | <i>Leucaena leucocephala</i> | Fabaceae |
| Fodder Crops | | | |
| Bermuda | Karuka | <i>Cynodon dactylon</i> | Poaceae |
| Napier | Napier | <i>Pennisetum purpureum</i> | Poaceae |
| Guinea | Kuthirappullu | <i>Panicum maximum</i> | Poaceae |
| Para | Parapullu | <i>Brachiaria mutica</i> | Poaceae |
| Tropical kudzu | Kudzu | <i>Pueraria phaseoloides</i> | Fabaceae |
| Trees | | | |
| Teak | Thekku | <i>Tectona grandis</i> | Verbenaceae |
| Ebony | Karimaram | <i>Diospyros ebenum</i> | Ebenaceae |
| Jungle jack | Anjili/Aini | <i>Artocarpus hirsutus</i> | Moraceae |
| Poon | Kattupunna | <i>Calophyllum polyanthum</i> | Clusiaceae |
| Tree of Heaven | Perumaram | <i>Ailanthus excelsa</i> | Simaroubaceae |
| Sain/Laurel | Karimaruthu | <i>Terminalia erenulata</i> | Combretaceae |
| Kindal | Vellamaruthu | <i>Terminalia paniculata</i> | Combretaceae |
| Gurjun | Vella Ayani | <i>Dipterocarpus indicus</i> | Dipterocarpaceae |
| Iron wood tree | Kadamaram | <i>Xylia zylocarpa</i> | Mimosaceae |
| Venteak | Venthekku | <i>Lagerstroemia microcarpa</i> | Lythraceae |
| Siris | Vaka | <i>Albizia lebeck</i> | Fabaceae |
| Yellow teak | Manja Kadambu | <i>Haldina cordifolia</i> | Rubiaceae |
| Dita bark | Yezhilam pala | <i>Alstonia scholaris</i> | Apocynaceae |
| Ekadania | Mulluvenga | <i>Bridelia squamosa</i> | Euphorbiaceae |

| | | | |
|----------------------|-------------|---------------------------------|------------------|
| Mahagony | Mahagany | <i>Switenia mahogani</i> | Meliaceae |
| Indian rose wood | Eetty | <i>Dalbergia latifolia</i> | Fabaceae |
| Jack | Plavu | <i>Artocarpus heterophyllus</i> | Moraceae |
| Bead tree | Manjadi | <i>Adenanthera pavonina</i> | Mimosaceae |
| Rosewood | Eetti | <i>Dalbergia latifolium</i> | Fabaceae |
| Sandal | Chandanam | <i>Santalum album</i> | Santalaceae |
| Thambakam | Thambakam | <i>Hopea parviflora</i> | Dipterocarpaceae |
| Irul | Kadamaram | <i>Xylia xylocarpa</i> | Fabaceae |
| Thembavu | Thembavu | <i>Terminalia tomentosa</i> | Cambretaceae |
| Thorny bamboo | Mula | <i>Bambusa arundinaceae</i> | Poaceae |
| Mangium/Black wattle | Mangium | <i>Acacia mangium</i> | Fabaceae |
| Eucalyptus | Eucalyptus | <i>Eucalyptus spp.</i> | Myrtaceae |
| Casuarina | Kattadi | <i>Casuarina equisetifolia</i> | Casuarinaceae |
| Ailanthus | Matti | <i>Ailanthus triphysa</i> | Simaroubaceae |
| Wild jack | Aini/Anjili | <i>Artocarpus hirsutus</i> | Moraceae |
| Alexadrian laurel | Punna | <i>Calophyllum ionophyllum</i> | Calophyllaceae |
| Indian kino tree | Venga | <i>Pterocarpus marsupium</i> | Fabaceae |
| Chadachi/Dhaman | Chadachi | <i>Grewia tilifolia</i> | Tiliaceae |

Medicinal & Aromatic Plants

| | | | |
|-----------------------|-----------------------|---|------------------|
| Black cutch | Karingali | <i>Acacia catachu</i> | Mimosaceae |
| Asparagus | Sathavari | <i>Asparagus racemosus varjavanicus</i> | Liliaceae |
| Brahmi | Neerbrahmi | <i>Bacopa monnieri</i> | Scrophulariaceae |
| Aparjit | Sankupushpam | <i>Clitoria ternatea</i> | Fabaceae |
| Indian borage | Njavara/Panikoorka | <i>Coleus amboinicus</i> | Lamiaceae |
| Nut grass | Muthanga | <i>Cyperus rotundus</i> | Cyperaceae |
| Sadovani | Velipparuthy | <i>Pergularia daemia</i> | Asclepiadaceae |
| Sarivan | Orila | <i>Desmodium gangeticum</i> | Fabaceae |
| Indian sarasaparilla | Narunandi | <i>Hemidesmus indicus</i> | Asclepiadaceae |
| Pennywort | Kudangal | <i>Centella asiatica</i> | Apiaceae |
| Kachura | Kacholam | <i>Kaempferia galanga</i> | Zingiberaceae |
| Neem | Veppu | <i>Azadirachta indica</i> | Meliaceae |
| Holybasil | Thulasi | <i>Ocimum sanctum</i> | Lamiaceae |
| Jaramala | Keezharnelli | <i>Phyllanthus fraternus</i> | Euphorbiaceae |
| Long Pepper | Thippali | <i>Piper longum</i> | Piperaceae |
| | Moovila | <i>Pseudarthria viscida</i> | Fabaceae |
| Rauvolfia | Sarpagandhi | <i>Rauvolfia serpentina</i> | Apocynaceae |
| Garden Rue | Sathappu/Arutha | <i>Ruta graveolens</i> | Rutaceae |
| Sida | Kurumthotti | <i>Sida rhombifolia</i> | Malvaceae |
| Gulancha (Hindi Name) | Chittamruthu | <i>Tinospora cordifolia</i> | Menispermaceae |
| Antamul (Hindi Name) | Vallippala | <i>Tylophora indica</i> | Asclepiadaceae |
| Khas-khas | Ramacham | <i>Vetiveria zizanioides</i> | Poaceae |
| Nirgandi (Hindi Name) | Karinochi | <i>Vitex negundo</i> | Verbenaceae |
| Asgand (Hindi Name) | Amukuram | <i>Withania somnifera</i> | Solanaceae |
| Baloon vine | Uzhinja | <i>Cardiospermum halicacabum</i> | Sapindaceae |
| Eucalyptus | Eucalyptus | <i>Eucalyptus citriodora</i> | Myrtaceae |
| Lemon grass | Inchipul | <i>Cymbopogon flexuosus</i> | Poaceae |
| Palmarosa | | <i>Cymbopogon martinii var. motia</i> | Poaceae |
| Vetiver | Ramacham | <i>Vetiveria zizanioides</i> | Poaceae |
| Plumbago | Chethi koduveli | <i>Plumbago rosea</i> | Plumbaginaceae |
| Indigo | Neela amari | <i>Indigofera tinctoria</i> | Fabaceae |
| Sappan wood | Pathimugham | <i>Caesalpinia sappam</i> | Fabaceae |
| Resurrection lily | Chengazhinir kizhangu | <i>Kaempferia rotunda</i> | Zingiberaceae |
| Aromatic turmeric | Kasturi manjal | <i>Curcuma aromatica</i> | Zingiberaceae |
| Snap ginger | Chittaratha | <i>Alpinia calcarata</i> | Zingiberaceae |
| Black musli | Nilappana | <i>Curculigo orchioides</i> | Orchidaceae |

| | | |
|-----------------|-----------------|-----------------------------|
| Holostemma | Adapathiyam | <i>Holostemma adakodien</i> |
| Asoka | Asokam | <i>Saraca asoca</i> |
| Strychnine tree | Kanjiram | <i>Strychnos nux-vomica</i> |
| Chittadalotakam | Chittadalotakam | <i>Adathoda beddomei</i> |
| Koovalam | Koovalam | <i>Aegle marmelos</i> |
| Karinochi | Karinochi | <i>Vitex negundo</i> |
| Kattarvazha | Kattarvazha | <i>Aloe vera</i> |
| Dantappala | Dantappala | <i>Wrightia tinctoria</i> |

VARIETIES RELEASED BY KERALA AGRICULTURAL UNIVERSITY / ICAR INSTITUTES

Rice Varieties tolerant to different biotic and abiotic stresses

| Trait | Varieties possessing the trait |
|---|--|
| Tolerance to BPH | Triveni, Matta triveni, Aruna, Remanika, Revathy, Krishnanjana, Bharathy, Jayathi, Aiswarya, Bhadra, Asha, Pavizham, Kanakam, Renjini, Pavithra, Panjami, Uma, Karishma, Nila. |
| Tolerance to Gall midge | Pavithra, Kanjana, Uma, Panchami |
| Tolerance to Leaf folder | Ahalya, Jayathi, Reshmi |
| Tolerance to Stem borer | Swarnaprabha, Kanchana, Aruna, Dhanu |
| Tolerance to GLH | Jayathi |
| Tolerance to Blast | Swarnaprabha, Kanchana, Kanakam, Jayathi, Renjini, Aiswarya, Neeraja |
| Tolerance to Sheath blight | Kanchana, Karthika, Aiswarya, Dhanu |
| Tolerance to drought | PTB 28, PTB 29, PTB 30 |
| Tolerance to moisture stress | Harsha, Chingam |
| Tolerance to flood | Kottarakkara I |
| Tolerance to salinity | Vyttila 1, Vyttila 2, Vyttila 3, Vyttila 4, Vyttila 5 |
| Tolerance to water logging | Mangala Mashuri |
| Tolerance to acidity, iron toxicity and Sulphide injury | Karishma, Krishnanjana |
| Tolerance to iron toxicity & shallow flooding | Mangala Mashuri, Karuna |
| Good grain quality | Ahalya |
| High protein content | PTB 23 |

VARIETIES OF OTHER CROPS RELEASED

COCONUT

| Hybrid | Nut yield per palm/year(No.) | Copra content/nut | Copra yield/palm/year (kg) |
|---------------|------------------------------|-------------------|----------------------------|
| Lakshaganga | 108.3 | 194 | 21.06 |
| Anandaganga | 95.2 | 216 | 20.56 |
| Keraganga | 100.2 | 201 | 20.14 |
| Kerasree | 140.0 | 216 | 30.24 |
| Kerasowbhagya | 130.0 | 195 | 25.35 |

SPICES

a. Pepper

| Variety | Special features | Average yield (Kg/ha) |
|------------|--|-----------------------|
| Panniyur 2 | Tolerate shade | 2570 |
| Panniyur 3 | Long spike, bold berries, prefers open condition | 1953 |
| Panniyur 4 | Tolerates adverse climatic condition | 1277 |
| Panniyur 5 | Tolerate adverse climatic conditon | 2352 |
| Panniyur 6 | Stable and regular yield, tolerates partial shade | 2127 |
| Panniyur 7 | Stable and regular yield, tolerates partial shade | 1410 |
| Panchami | High yielding variety with excellent fruitset | 2828 |
| Sreekara | Adaptable to various climatic conditions | 2677 |

b. Cardamom

| Variety | Special features | Average yield (Kg/ha) |
|---------|--|-----------------------|
| PV1 | Earliness in bearing, suited to all cardamom growing areas of Kerala, Karnataka and Tamil Nadu | 380 |
| PV2 | Long bold capsules. Field tolerant to stem borer and relatively tolerant to thrips. More than 80% capsules over 7 mm. | 916 |

c. Turmeric

| Variety | Average dry yield(t/ha.) | Curcumin |
|---------|--------------------------|----------|
| Kanthi | 7.34 | 7.18 |
| Sobha | 5.74 | 7.39 |
| Sona | 4.02 | 7.11 |
| Varna | 4.16 | 7.87 |

d. Cinnamon - Sugandhini, Nithyasree, Navasree

CASHEW

| Variety | Mean yield (kg/tree/year) |
|----------------|---------------------------|
| Anakkayam I | 12.00 |
| Madakkathara I | 13.80 |
| Kanaka | 12.8 |
| Dhana | 10.66 |
| Dharasree | 15.02 |
| Priyanka | 16.90 |

| | |
|----------------|-------|
| Amrutha | 18.35 |
| Anagha | 13.73 |
| Akshaya | 11.78 |
| Madakkathara 2 | 17.00 |
| Sulabha | 21.90 |
| Damodar | 13.36 |
| Raghav | 14.65 |
| Poornima | 14.08 |
| Sree | 23.78 |

SUGARCANE : Madhuri, Thirumadhuram, Madhurima, Madhumathi

VEGETABLES

| | |
|------------------|---|
| Amaranthus | |
| Red varieties | : Kannara local, Arun, Krishnasree |
| Green varieties | : Mohini, Renusree |
| Okra | |
| Green varieties | : Kiran, Salkeerthi, Susthira |
| Red varieties | : Aruna |
| Bitter gourd | : Priya, Preethi, Priyanka |
| Snake gourd | : Kaumudi, Baby, Manusree, TA-19, TA-23 |
| Cucumber | : Mudicode, Arunima, Soubhagya |
| Pumpkin | : Ambili, Suvarna, Saras |
| Ash gourd | : KAU local, Indu |
| Brinjal | : Surya, Swetha, Haritha, Neelima |
| Chilli | : Jwalasakhi, Jwalamukhi, Jwala, Ujwala, Anugraha, Vellayani Athulya, Samrudhi |
| Tomato | : Sakthi, Mukthi, Anagha, Vellayani Vijai |
| Vegetable cowpea | : KMV-1, Malika, Sharika, Vyjayanthi, Anaswara, Varun, Kairali, Bhagyalakshmi, Lola, Vellayani Jyothika |
| Winged Bean | : Revathy |
| Ridge gourd | : Haritham, Deepthi |

OTHER CROPS

| | |
|--------------|---|
| Cocoa | : CCRP1, CCRP2, CCRP3, CCRP4, CCRP5, CCRP6, CCRP7, CCRP8, CCRP9, CCRP10 |
| Sesamum | : Kayamkulam I, Thilothama, Soma, Surya, Thilak, Thilathara, Thilarani |
| Ground nut | : Sneha, Snigdha |
| Cowpea | : Kanakamony, Krishnamony, Pournami, Shubhra, Hridya, Sreya |
| Black gram | : Syama, Sumanjana |
| Lemon grass | : OD 19, (Sugandhi) |
| Palmarosa | : ODP 1, ODP 2 |
| Vetiver | : ODV 3 |
| Thippali | : Viswam |
| Cinnamon | : ODC 130 |
| Kacholam | : Kasthuri, Rajani |
| Guinea Grass | : Haritha, Marathakom |

TUBER CROPS

| | | |
|-------------------|---|---|
| Tapioca | : | H97, H165, H226, Kalpaka, Nidhi, Vellayani Hraswa, Sree Jaya, Sree Vijaya, Sree Prakash, Sree Rekha, Sree Prabha, Sree Padmanabha |
| Sweet Potato | : | H41, H42, Kanhangad, Sree Arun, Sree Varun, Sree Kanaka, Sree Bhadra, Sree Rethna, Varsha, Sree Vardhini, Sree Nandini |
| Greater Yam | : | Indu, Sree Keerthi, Sree Roopa, Sree Karthika, Sree Shilpa |
| Chinese Potato | : | Nidhi, Sree Dhara, Suphala |
| Taro | : | Sree Reshmi, Sree Kiron, Sree Pallari |
| Elephant Foot Yam | : | Sree Padma, Sree Athira, Gajendra |
| Lesser Yam | : | Sree Latha, Sree Kala |
| White Yam | : | Sree Priya, Sree Subhra, Sree Dhanya |

MUSHROOM : Ananthan

MANURES & FERTILIZERS

(i) Nutrients in Organic Manures

| | N | P ₂ O ₅ | K ₂ O |
|-------------------------------|-----------|-------------------------------|------------------|
| Neem cake | 5 . 0 | 1.0 | 1.5 |
| Coconut cake | 3.0 | 1.9 | 1.8 |
| Groundnut cake | 7.0 | 1.5 | 1.5 |
| Gingelly cake | 6.2 | 2.0 | 1.2 |
| Castor cake | 4.3 | 2.0 | 1.3 |
| Mahua cake | 2.5 | 0.8 | 1.8 |
| Farm yard manure | 1 | 0.5 | 1 |
| Compost | 0.5 | 0.4 | 0.8 |
| Cowdung (fresh) | 1.5 | 0.3 | 0.2 |
| Biogas slurry (cowdung based) | 1.6 - 1.8 | 1.1 - 2.0 | 0.8 - 1.2 |
| Sheep manure | 0.8 - 1.6 | 0.3 - 0.4 | 0.3 - 0.4 |
| Poultry manure | 1.2 - 1.8 | 1.4 - 1.8 | 0.8 - 0.9 |
| Bone meal | 3.5 | 21 | -- |
| Fish meal | 4.1 | 3.9 | 0.3 - 1.5 |
| Meat meal | 11 | 1.5 | 0.6 |
| Blood (dried) | 11.5 | -- | 0.6 |
| Sunhemp | 2.6 | 0.5 | 2.0 |
| Daincha | 3.3 | 0.7 | 1.30 |
| Kolinji | 3.20 | 0.3 | 1.30 |
| Sesbania | 2.7 | 0.5 | 2.2 |
| Gliricidia | 2.90 | 0.5 | 2.8 |
| Paddy straw | 0.36 | 0.08 | 0.71 |
| Household ash | 0.5 - 1.9 | 1.6 - 4.2 | 2.3 - 12.00 |
| Coirpith Compost | 1.26 | 0.06 | 1.20 |

. Composition of organic manures vary widely.

(ii) Nutrients in common fertilizers

| Name of Fertilizer | N | P ₂ O ₅ | K ₂ O |
|-----------------------------|------|-------------------------------|------------------|
| Ammonium Sulphate | 20.6 | -- | -- |
| Ammonium Nitrate | 33.5 | -- | -- |
| Diammonium Phosphate | 18.0 | 46.0 | -- |
| Ammonium Phosphate Sulphate | 16.0 | 20.0 | -- |
| Calcium Ammonium Nitrate | 25.0 | -- | -- |
| Urea | 46.0 | -- | -- |
| Super Phosphate | -- | 16.0 | -- |
| Rock Phosphate | -- | 28.4 | -- |
| Mussuriphos | -- | 18-20 | -- |
| Muriate of Potash | -- | -- | 60 |

(iii) Quantities of fertilizers required to supply specified doses of nutrients

| Rate of application (kg / ha) | Ammonium sulphate (20% N) | Urea (46% N) | Super Phosphate (18% P ₂ O ₅) | Muriate of Potash (60% K ₂ O) |
|-------------------------------|---------------------------|--------------|--|--|
| 10 | 50 | 22 | 56 | 17 |
| 20 | 100 | 43 | 111 | 33 |
| 30 | 150 | 65 | 167 | 50 |
| 40 | 200 | 87 | 222 | 67 |
| 50 | 250 | 109 | 278 | 83 |
| 60 | 300 | 130 | 333 | 100 |
| 70 | 350 | 152 | 389 | 117 |
| 80 | 400 | 174 | 444 | 133 |
| 90 | 450 | 196 | 500 | 150 |
| 100 | 500 | 217 | 556 | 167 |

FERTILIZER RECOMMENDATION FOR MAJOR CROPS

| | N | P | K |
|---|----|----|----|
| 1. PADDY (kg/ha) | | | |
| Upland (Modan) | | | |
| PTB 28, 29 and 30 | 40 | 20 | 30 |
| High-yielding short duration varieties | 60 | 30 | 30 |
| Wet land (All regions) | | | |
| High-yielding short duration varieties | 70 | 35 | 35 |
| High-yielding medium duration varieties | 90 | 45 | 45 |
| Local varieties | 40 | 20 | 20 |
| H4 | 70 | 45 | 45 |
| Mashuri | 50 | 25 | 25 |

2. COCONUT (Adult palm) kg/palm/annum

1. General recommendation

| | | | |
|---|------|------|------|
| (a) Average management | 0.34 | 0.17 | 0.68 |
| (b) Good Management | 0.50 | 0.32 | 1.20 |
| 2. For reclaimed clayey soils (as in Kuttanad) | 0.25 | 0.35 | 0.90 |
| 3. Red Loam Soils (Southern Kerala) | 0.68 | 0.23 | 0.90 |
| 4. Hybrid and high yielding palm | | | |
| (a) For irrigated areas | 1.00 | 0.50 | 2.00 |
| (b) Rainfed | 0.50 | 0.32 | 1.20 |

3. RUBBER

From 1st year to 4th year :- 10:10:4:1.5 NPK Mg mixture at the following rates:

| | |
|------------------------|--------------|
| 3 rd Month | 225g / plant |
| 9 th Month | 450g / plant |
| 15 th Month | 450g / plant |
| 21 st Month | 550g / plant |
| 27 th Month | 550g / plant |
| 33 rd Month | 450g / plant |
| 39 th Month | 450g / plant |

From 5th year till tapping begins

12:12:12 NPK Mixture @ 125 kg / ha during April - May and September - October

(Where mulching was practiced during initial years)

15:10:6 NPK mixture @ 200 kg / ha during April - May and September - October

(Where mulching was not practiced during initial years)

Mature rubber under tapping

10:10:10 NPK Mixture @ 300 kg / ha or 900 g / plant during April - May as single dose or in 2 split doses during April - May and Sep - Oct

or 15:15:15 NPK Mixture @ 200 kg / ha

or 17:17:17 NPK Mixture @ 175 kg / ha

or 19:19:19 NPK Mixture @ 160 kg / ha

4. ARECANUT

| | N | P | K |
|----------------------------|-----|----|-----|
| Adult palm (gram per year) | 100 | 40 | 140 |

5. TAPIOCA (kg per hectare)

| | | | |
|----------|-----|-----|-----|
| Improved | 100 | 100 | 100 |
| Local | 50 | 50 | 50 |

6. SWEET POTATO (kg / ha)

7. SESAMUM (kg / ha.)

8. GROUNDNUT (kg / ha)

9. BANANA (g/plant)

| | | | |
|---|---------|---------|---------|
| Nendran (irrigated) | 190 | 115 | 300 |
| Palayamkodan (Rainfed) | 100 | 200 | 400 |
| Other varieties according to soil fertility | 160-200 | 160-200 | 320-400 |

| | | | | |
|--|----------------|-----|------|------|
| 10. PINEAPPLE - | (g/plant/year) | 8 | 4 | 8 |
| | (kg/ha/year) | 320 | 160 | 320 |
| 11. MANGO (g/tree/year) for trees over 10 years | | 500 | 360 | 750 |
| 12. SUGARCANE (kg/ha) | | | | |
| Pandalam and Thiruvalla area | | 165 | 82.5 | 82.5 |
| Chittoor area | | 225 | 75 | 75 |
| Newly-cleared forest area | | 115 | 75 | 90 |
| 13. PEPPER (g/vine/year) | | 50 | 50 | 150 |
| 14. GINGER (kg/ha) | | 75 | 50 | 50 |
| 15. TURMERIC (kg/ha) | | 30 | 30 | 60 |
| 16. NUTMEG (g/tree/year) from 15 th year onwards | | 500 | 250 | 1000 |
| 17. CLOVE (g/tree/year) from 15 th year onwards | | 300 | 250 | 750 |
| 18. CARDAMOM (kg/ha) | | 75 | 75 | 150 |
| 19. CASHEW (g/tree/year) | | 750 | 325 | 750 |
| 20. COCOA (g/plant/year) | | | | |
| For plants yielding less than 50 fruits per year | | 100 | 40 | 140 |
| For plants yielding more than 50 fruits | | 200 | 80 | 280 |
| 21. COLOCASIA (kg/ha) | | 80 | 25 | 100 |
| 22. AMORPHOPHALLUS (kg/ha) | | 100 | 50 | 150 |
| 23. DIOSCOREA (kg/ha) | | 80 | 60 | 80 |

Source: Package of Practices Recommendation, 'Crops' - 2007, KAU

Vermi compost

Vermi-technology is a process by which all types of biodegradable wastes such as farm wastes, kitchen wastes, market wastes, bio-wastes of agro-based industries, livestock wastes etc. are converted to nutrient rich vermicompost by using earthworms as biological agents. Vermicompost contains major and minor nutrients in plant-available forms, enzymes, vitamins and plant growth hormones. *Eudrillus eugineae* has been identified as the best species of earth-worm for vermi-technology under Kerala conditions.

Vermicomposting of farm wastes: Pits of size 2.5m length, 1m breadth and 0.3m depth are taken in thatched sheds with sides left open. The bottom and sides of the pit are made hard by compacting with a wooden mallet. At the bottom of the pit, a layer of coconut husk is spread with the concave side upward to ensure drainage of excess water and for proper aeration. The husk is moistened and above this, biowaste mixed with cowdung in the ratio of 8:1 is spread up to a height of 30cm above the ground level and water is sprinkled daily. After the partial decomposition of wastes for 7 to 10 days, the worms are introduced @ 500 to 1000 numbers per pit. The pit is covered with coconut fronds. Moisture is maintained at 40 to 50 %. When the compost is ready, it is removed from the pit along with the worms and heaped in shade with ample light. The vermicompost produced has an average nutrient status of 1.5% N, 0.4% P₂O₅ and 1.8% K₂O with pH ranging from 7.0 to 8.0.

Coir Pith Composting

Select a shaded place of 5x3m dimension and level it after removing weeds. First spread 100 kg coirpith uniformly. Spread 300g (one bottle or cover) of *Pleurotus* spawn on this and cover this with a second layer of 100 kg coirpith. On the surface of the second layer, spread 1 kg urea uniformly. Repeat this sandwiching process of one layer of coirpith with spawn followed by another layer of coirpith with urea up to 1m height. Sprinkle water if necessary to keep the heap moist. Allow the heap to decompose for one month.

The coirpith is converted into good manure after 30-40 days and the lignin content is reduced from 30% to 40%. Another significant change is the lowering down of C:N ratio from 112:1 to 24:1. This coirpith compost contains macronutrients as well as micronutrients. It has the unique property of absorbing and retaining moisture to about 500-600 %. It improves the water infiltration rate and hydraulic conductivity of soil.

BIO-FERTILIZERS

Some of the commonly used bio-fertilizers are

1. Rhizobium (*Bradyrhizobium* and *Azorhizobium*)

It induces better root nodulation and stem nodulation (*Azorhizobium*) in inoculated plants and thereby brings down the requirement of nitrogen fertilizer for the cultivation of pulses, oil seeds and legume green manures. Method of application is seed treatment.

2. Azotobacter

Suitable only for upland crops like vegetables, tapioca, plantation and orchard crops.

3. Azospirillum

It is suitable for both upland and wetland conditions. It induces better root formation in inoculated plants. Recommended for root induction in polybag-raised seedlings of plantation and orchard crops. Method of application are seed treatment, seedling root dip and soil application.

4. Blue green algae (BGA)

Mainly recommended for wetland rice cultivation. Not feasible in acidic soils with pH below 6.0. Applied by direct broadcasting in the rice fields @ 10 kg/ha one week after transplanting the seedlings.

5. Azolla

It is suitable for wetland rice cultivation. The required quantity of azolla will have to be raised in the farmers' field itself. Method of Application : apply @ 10t/ha before transplanting the rice seedlings at the time of ploughing.

6. Phosphate solubilising bacteria and fungi

Recommended mainly for upland crops raised in neutral and slightly alkaline soils. Enables the efficient utilization of cheaper sources of phosphatic fertilizers such as rock phosphate by crop plants in neutral and alkaline soils. Method of application : Seed treatment and direct application.

7. Vesicular Arbuscular Mycorrhiza (VAM/AM)

Vesicular arbuscular mycorrhiza is mostly recommended for upland especially for raising container and tissue culture plantlets and transplanted crops. Also induces better resistance against certain soil borne plant pathogens. It is given as soil application.

APPLICATION TECHNIQUES OF BIOFERTILIZERS

1. Seed treatment

Five hundred grams of commercially available inoculum will be required for treatment of seeds for one hectare area. For this, thick slurry of the carrier-based inoculum is initially prepared by mixing 500 g of the inoculum in 1.25 litres of water. The stickiness of the biofertilizer on seed surface can be significantly improved by using 10% jaggery solution or 5% sugar solution supplemented with 40% boiled and cooled gum arabic solution or rice-gruel water. The required quantity of seed material is then gently mixed with this slurry without damaging the seed coat. The treated seeds are spread evenly over a gunny bag and dried in shade and sown immediately in moist soil. Under no circumstances, the treated seeds are exposed to direct sunlight for longer period of time since the UV rays of solar radiation will reduce significantly the population of inoculated bacteria on seed surface.

2. Seedling treatment

This method of application is mainly recommended for transplanted crops. In this procedure, the roots of seedling to be transplanted are dipped in loose water slurry of the biofertilizer (500 g in 2.5 litres of water) for 20 minutes, prior to transplanting.

3. Soil application

Soil application is generally recommended for all types of biofertilizers except Rhizobium, Bradyrhizobium and Azorhizobium. The method is to apply the biofertilizer after mixing with dried FYM, compost or vermicompost @ 1:25. For crops of six months duration, the recommended dose is 1-2 kg/ha. This can be increased to 2-4 kg/ha for crops of more than six months duration. For perennial crops, 10 to 25 g of the biofertilizer is to be applied in the root zone during the first year and 25 to 50 g during subsequent years. This can be done at the time of sowing, transplanting or during intercultivation.

Source : Package of practices recommendations ; 'Crops'-2007; KAU.

SPACING RECOMMENDATIONS AND PLANT POPULATION OF IMPORTANT CROPS IN KERALA

| | | Spacing |
|-------------------------------|--|--|
| 1. Rice - Virippu | Medium duration | - 20 x 15 cm |
| | Short duration | - 15 x 10 cm |
| Mundakan | Medium duration | - 20 x 10 cm |
| | Short duration | - 15 x 10 cm |
| Puncha | Medium duration | - 20 x 10 cm |
| | Short duration | - 15 x 10 cm |
| 2. Ragi | | - 25 x 15 cm |
| 3. Maize | | - 60 x 25 cm |
| 4. Sorghum | | - 45 x 15 cm |
| 5. Cowpea | | |
| a. for grain & dual purpose | | |
| i. Dibbling | | - 25 x 15 cm |
| b. for vegetable type | | |
| i. Bush | | - 30 x 15 cm |
| ii. Trailing | | - 2 x 2 cm |
| 7. French bean | | - 30 x 20 |
| 8. Green pea | | - 15-20 x 10 cm |
| 9. Amorphophallus | | - 90 x 90 cm |
| 10. Colocasia | | - 60 x 45 cm |
| 11. Greater yam (Kachil) | | - 1 m x 1 m |
| 12. Lesser yam (Nanakizhangu) | | - 75 x 75 cm |
| 13. Sweet potato | Ridges | - 60 x 15-20 cm |
| | Mounts | - 75 x 75 cm |
| 14. Tapioca | Branching type | - 90 x 90 cm |
| | Non branching type | - 75 x 75 cm |
| 15. Cashew | 1. Poor soil | - 7.5 x 7.5 m |
| | 2. Rich & deep soil & Sandy coastal area | - 10 x 10 m |
| 16. Sugarcane | Short duration | - 75 x 75 cm |
| | Medium duration | - 90 x 90 cm |
| 17. Coconut | Triangular method | - 7.6 m |
| | Square | - 7.6 to 9 m |
| | Single hedge | - 9 x 5 m |
| | Double hedge | - 5 x 5 m in rows 9m between pairs of rows. |
| 18. Groundnut | | - 15 x 15 cm |
| 19. Oil palm | | - 9 m |
| 20. Cardamom | | - 1.8 m x 0.60 m |
| 21. Cinnamon | | - 2 x 2 m |

| | | |
|-----------------------------|--------------|-------------------------------|
| 22. Clove | | - 6 x 6 m |
| 23. Vanilla | | - 1.8 x 2.7 m |
| 24. Ginger | | - 20 x 20 cm to 25 x 25 cm |
| 25. Mango Ginger | | - 25 x 30 cm |
| 26. Nutmeg | | - 8 x 8 |
| 27. Pepper | | - 3 x 3 m |
| 28. Turmeric | | - 25 x 25 cm |
| 29. Kudampuli | | |
| a. Graft | | - 4 x 4 m |
| b. Seedling | | - 7 x 7 m |
| 30. Tamarind | | - 10 x 10 m |
| 31. Arecanut | | - 2.7 x 2.7 m |
| 32. Coffee | | |
| a. Tall Arabica | | - 2.1 x 2.1 m |
| b. Semi dwarf | | - 1.8 x 1.8 m |
| c. Dwarf | | - 1.5 x 1.5 m |
| d. Hybrid | | - 2.5 x 2.5 m |
| e. Robusta | | - 3 x 3 m |
| 33. Tea | | |
| a. Up & down | | - 1.2 x 1.2 m |
| b. Contour planting | Single hedge | - 1.2 x 0.75 m |
| c. Contour planting | Double hedge | - 1.35 x 0.75 x 0.75 m |
| 34. Tobacco | | - 85 x 85 cm |
| 35. Okra (Bindhi) | | - 60 x 45 cm |
| 36. Coleus | | - 30 x 15 cm |
| 37. Bitter gourd | | - 2 x 2 m |
| 38. Snake gourd | | - 2 x 2 m |
| 39. Cucumber | | - 2 x 1.5 m |
| 40. Water melon | | - 3 x 2 m |
| 41. Bottle gourd | | - 3 x 3 m |
| 42. Pumpkin | | - 4.5 x 2 m |
| 43. Ash gourd | | - 4.5 x 2 m |
| 44. Brinjal | | |
| a. Less spreading varieties | | - 60 x 60 cm |
| b. Spreading varieties | | - 75 - 90 x 60 cm |
| 45. Chilli | | |
| a. Less spreading varieties | | - 45 x 45 cm |
| b. Spreading varieties | | - 75 x 45 - 60 cm |
| 46. Tomato | | - 60 x 60 cm |
| 47. Cabbage | | - 45 x 45 cm |
| 48. Cauliflower | | - 60 x 45 cm |
| 49. Carrot | | - 45 x 10 cm |

| | | |
|------------------------|---|------------------|
| 50. Beet root | - | 45 x 15-20 cm |
| 51. Radish | - | 45 x 10 cm |
| 52. Potato | - | 50-60 x 15-20 cm |
| 53. Garlic | - | 15 x 8 cm |
| 54. Winged bean | - | 1.25 x 0.5 m |
| 55. Dolichos bean | | |
| a. Pole varieties | - | 1.25 x 0.75 m |
| b. Bush varieties | - | 60 x 15 cm |
| 56. Cluster bean | - | 45-60 x 20-30 cm |
| 57. Sword bean | | |
| a. Pole type varieties | - | 4 x 3 m |
| b. Bush type varieties | - | 60 x 60 cm |
| 58. Clove bean | - | 100 x 60 cm |
| 59. Little gourd | - | 4 x 3 m |
| 60. Smooth gourd | - | 2 x 2 m |
| 61. Ridge gourd | - | 2 x 2 m |
| 62. Bell pepper | - | 60 x 30 cm |
| 63. Drumstick | - | 4 x 4 m |
| 64. Indian Spinach | - | 1 x 0.6 m |
| 65. Water leaf | - | 30 x 10 cm |
| 66. Curry leaf | - | 4 x 4 m |
| 67. Banana | - | 2 x 2 m |
| 68. Indian Gooseberry | - | 8 x 8 m |
| 69. Jack | - | 12-15 m |
| 70. Mandarin Orange | - | 7 - 8 m |
| 71. Mango | - | 9 m |
| 72. Papaya | - | 2 x 2 m |
| 73. Pineapple | | |
| a. Kew | - | 70 x 30 cm |
| b. Mauritius | - | 45 x 30 cm |
| 74. Sapota | - | 7 - 8 m |
| 75. West Indian Cherry | - | 6 m |

SEED RATE FOR IMPORTANT CROPS OF KERALA

| | | | |
|----------------|-------------------|---|----------------|
| 1. Rice | Transplanting | - | 60 - 85 kg/ha |
| | Broad casting | - | 80 - 100 kg/ha |
| | Dibbling | - | 80 - 90 kg/ha |
| 2. Maize | | - | 20 kg/ha |
| 3. Ragi | Direct sown | - | 5 kg/ha |
| | Transplanted crop | - | 4-5 kg/ha |
| 4. Sorghum | | - | 12-15 kg/ha |
| 5. Blackgram - | Pure crop | - | 20 kg/ha |
| | Mixed crop | - | 6 kg/ha |

| | | |
|-------------------------------|-----------------------|------------------------------|
| 6. Cowpea | | |
| 1. For vegetable type | | |
| | a. Bush | - 20 - 25 kg/ha |
| | b. Trailing | - 4 - 5 kg/ha |
| 2. For grain and dual purpose | | |
| | a. Broadcasting | - 60 - 65 kg/ha |
| | b. Dibbling | - 50 - 60 kg/ha |
| 7. Green gram | | |
| | Pure crop | - 20 - 25 kg/ha |
| | Mixed crop | - 6 kg/ha |
| 8. Green pea | | - 60 kg/ha |
| 9. Horse gram | | - 25 - 30 kg/ha |
| 10. Red gram | | |
| | Pure crop | - 15 - 20 kg/ha |
| | Mixed crop | - 6 - 7 kg/ha |
| 11. Amorphophallus | | - 9 -12 tonnes/ha |
| 12. Colocasia | | - 800-1200 kg/ha |
| 13. Greater yam (Kachil) | | - 3000-3700 kg/ha |
| 14. Lesser yam (Nanakizhangu) | | - 1800 - 2700 kg/ha |
| 15. Sweet potato | | - 80 kg tubers/ha |
| 16. Tapioca | | - 2000 stems/ha |
| 17. Rubber | | - 450 - 500 plants/ha |
| 18. Ground nut | | |
| | Pure crop | - 100 kg kernels/ha |
| | Inter crop in coconut | - 80 kg kernel/ha |
| | Inter crop in Tapioca | - 40 - 50 kg kernel/ha |
| 19. Sesame | | - 4 - 5 kg/ha |
| 20. Mango ginger | | - 1500 kg/ha |
| 21. Ginger | | - 1500 kg/ha |
| 22. Turmeric | | - 2000 - 2500 kg/ha |
| 23. Betel vine | | - 20000 to 25000 cuttings/ha |
| 24. Okra | | - 7 - 8.5 kg/ha |
| 25. Bitter gourd | | - 5 - 6 kg/ha |
| 26. Coleus | | - 75-100 kg tubers/ha |
| 27. Snake gourd | | - 3 - 4 kg/ha |
| 28. Cucumber | | - 0.5 - 0.75 kg/ha |
| 29. Watermelon | | - 1 - 1.5 kg/ha |
| 30. Bottle gourd | | - 3 - 4 kg/ha |
| 31. Pumpkin | | - 1 - 1.5 kg/ha |
| 32. Ash gourd | | - 0.75 - 1 kg/ha |
| 33. Brinjal | | - 370 - 500 g/ha |
| 34. Chilli | | - 1 kg/ha |

| | | |
|------------------|---|------------------------------|
| 35. Tomato | - | 400 g/ha |
| 36. Cabbage | - | 500 - 750 g/ha |
| 37. Cauliflower | - | 600 - 750 g/ha |
| 38. Carrot | - | 5 - 6 kg/ha |
| 39. Beet root | - | 7 - 8 kg/ha |
| 40. Radish | - | 7 - 8 kg/ha |
| 41. Potato | - | 1000 - 2000 kg seed tuber/ha |
| 42. Garlic | - | 500 kg of cloves/ha |
| 43. Winged bean | - | 15 - 20 kg/ha |
| 44. Cluster bean | - | 10 - 12 kg/ha |
| 45. Clove bean | - | 6 - 7 kg/ha |
| 46. Smooth gourd | - | 2.5 - 3 kg/ha |
| 47. Ridge gourd | - | 2.5 - 3 kg/ha |
| 48. Bell pepper | - | 400 - 600 g/ha |

CONVERSION RATES BETWEEN RAW MATERIALS AND PROCESSED PRODUCTS

| | | |
|-----------|--|--|
| Paddy | Rice | Cleaned 2/3 by weight of paddy |
| Groundnut | Kernels to nuts in shell | 70 percent |
| | Oil to nuts in shell | 28 percent |
| | Oil to Kernels crushed | 40 percent |
| | Cake to Kernels crushed | 60 percent |
| Sesamum | Oil to seeds crushed | 40 percent |
| | Cake to seeds crushed | 60 percent |
| Coconut | Copra to nuts | 6,773 nuts gives one tonne of copra (average), presently it is 7250-7500 nuts due to mite attack |
| | Cake to copra | 38 percent |
| Pepper | Green to dry | 21-39 percent by weight |
| Sugarcane | Gur from cane | 10 percent |
| | Crystal sugar from gur | 62.4 percent |
| | Crystal sugar from cane | 9.9 percent |
| | Molasses from cane | 3.5 percent |
| Cashew | Cashew Kernel | 25 percent of nuts |
| Arecanut | Husked Champan to unhusked | 35 percent by weight |
| Supari | (Processed tender nut to unhusked champan) | 12 percent |
| Tapioca | Starch | 28-30 percent on the weight of fresh tubers |
| Turmeric | Cured to raw | |
| | (Dry 17-25% of the raw stuff) | 16-20 percent of the weight |
| Ginger | Dry Ginger | 21-30 percent by weight |
| Cocoa | Pod to wet beans | 40 percent by weight |
| | Wet beans to dried beans | 35-40 percent by weight |

| | | |
|---------------|---------------------------------|------------------------|
| Coffee | Robusta-Berries to clean coffee | 4.5 to 3.6:1 |
| | Wet beans to dried beans | 5.0 to 3.3:1 |
| Cardamom | Green to dry | 25-35 percent |
| Oil Palm | Palm Oil | 20% by weight of Bunch |
| Soyabean seed | Oil to soyabean seed crushed | 18 percent |
| | Meal to soyabean seed crushed | 73 percent |
| | Hull from soyabean seed crushed | 8 percent |
| Neem Seed | Oil to kernel crushed | 45-50 percent |
| | Cake to kernel crushed | 50-55 percent |

Source : *Facts & Figures of Agriculture in Kerala (August 2005)*

CONVERSION FACTORS FOR COCONUT

A. Number of Coconuts to a tonne of Copra:

| | |
|----------------|---|
| Kerala | 6,250 to 6,850 (at present it is 7250-7500 nuts due to mite attack) |
| Andhra Pradesh | 8,820 |
| Tamil Nadu | 7,000 |
| Laccadives | 12,000 |

B. Copra yield from coconut in different months in Kerala at 6% moisture level/1000 nuts

| | |
|-----------|--------|
| January | 163 kg |
| February | 181 kg |
| March | 178 kg |
| April | 176 kg |
| May | 179 kg |
| June | 165 kg |
| July | 152 kg |
| August | 139 kg |
| September | 147 kg |
| October | 148 kg |
| November | 155 kg |
| December | 158 kg |

C. Nuts to shell, Coconut water etc

| | |
|-----------|-----------------------------|
| 1000 nuts | 114 kg shell |
| 1000 nuts | 100 litres of coconut water |
| 1000 nuts | 35 kg of charcoal |

D. Coconut Oil from Copra

| | |
|-----------|--------|
| Chekkus | 58-60% |
| Rotaries | 62-63% |
| Expellers | 63-65% |

E. Ball copra from coconut (per 1000 nuts)

| |
|---------------------|
| 1.5 tonne (grade 1) |
| 1.3 tonne (average) |

F. Dessicated coconut (per 1000 nuts) 1 tonne of DC

G. Cake yield as percentage of copra crushed

Chekkus 38%
Rottaries 36%
Expellers 34%

H. Coconut to Fibre (per 1000 nuts)

81.8 kg - kerala
68.3 kg - Andhrapradesh
90.0 kg - Tamilnadu
81.9 kg - Karnataka
56.9 kg - Others

I. Composition of Coconut (Husked)

Shell 27.9% (23.5 to 32.8)
Kernel 55.2% (48.2 to 62.0)
Water 17.0% (8.2 to 25.1)

J. Composition of Standard Copra

Moisture 6 %
Oil 68 to 71%
Free Fatty Acids 2 %

| Composition | Kernel | Copra% | Cake% |
|---------------|--------|--------|-------|
| Moisture | 46.3 | 5.8 | 10.7 |
| Protein | 4.1 | 8.9 | 19.1 |
| Fat 37.3 | 37.3 | 67.0 | 11.1 |
| Carbohydrates | 7.9 | 12.4 | 40.9 |
| Crude Fibre | 3.4 | 4.1 | 14.1 |
| Ash | 1.0 | 1.8 | 4.1 |

K. Fatty Acid Composition of Coconut Oil

| | |
|-----------------------|--------------------------|
| Saturated Fatty Acids | Un-Saturated Fatty Acids |
| Lauric Acid | Palmitoleic Acid |
| Caprylic Acid | Oleic Acid |
| Myristic Acid | Linoleic Acid |
| Straric Acid | Arachidonic Acid |
| Arachidic Acid | |

L. Coir pith per 10000 husk 2 tonnes

M. Charcoal yield from shell (per 3 tonnes of shell) 1 tonne

N. Processed coconut cream/1000 coconut 200 kg cream

O. Coconut Vinegar (per 100 litres coconut water) 110 litre vinegar

AGMARK CERTIFICATION

'Agmark' is a Quality Certification Mark of the Government of India given to products confirming to scientifically laid down quality standards.

Products commonly certified under AGMARK

- Honey
- Ghee, Butter
- Chillies, Turmeric, Curry Powder, Garam Masalas, Cardamom, Cumin, Coriander and other curry powders.
- Vegetable Oils
- Spices
- Wheat, Atta, Maida, Suji, Besan, Pulses and many more items required by customers.

Certificate of Authorisation

It is given to the packers authorising them to grade their commodity under AGMARK. Period of Validity will be 5 years.

For granting new certificate of authorisation separate application for each commodity should be produced.

Documents to be given along with application

1. Sketch of the premises:-
2. Declaration regarding
 - i. Proprietorship/Partnership etc,
 - ii. Ownership of the premises
 - iii. Ownership of trade brand label
 - iv. Use of good grade quality containers for packing commodities.

All declarations has to given in five rupees stamp label attested by notary public.

3. A copy of licence from Panchayat/Municipality.
4. Bank reference:- Letter from the bank regarding the transaction fo the packer with the bank.
5. List of machineries.
6. Specimen signature of 2 authorised persons attested by the proprietor/managing partner.
7. Medical fitness certificate of employee.
8. Specimen copy and sketch of trade brand label

For more details contact :-

Deputy Agricultural Marketing Advisor, Directorate of Marketing and Inspection,
Wellington Island, Kochi - 682 003, or State Agmark Grading Laboratories

STATE CROP INSURANCE

| Sl. No. | Crops | Minimum No./area of crop required for insurance | Age of the crop to be insured | Premium Amount (Rs) | Rate of Compensation (Rs) |
|---------|---|---|---|---|---|
| 1. | Coconut | 10 Nos. | Palm giving a minimum of 30 coconuts per year | ₹2/ palm/year ₹5/ palm if premium deposited for 3 years together | ₹2,000/palm |
| 2. | Arecanut | 10 Nos. | Bearing | ₹1/palm/year ₹2/palm if premium deposited for 3 years together | ₹200/palm |
| 3. | Rubber | 25 Nos. | Tapping trees | ₹3/tree/year ₹5 per tree if premium deposited for 3 years together | ₹1000/tree |
| 4. | Cashew | 5 Nos. | Bearing | ₹3/tree/year ₹3/tree if premium deposited for 5 years together | ₹750/tree |
| 5. | Banana a. Nendran, Kappa b. Njalippoovan c. Others | 10 Nos. | 1-5 months after planting | ₹3/plant | a. Without bunch ₹150/- b. Without bunch ₹100/- c. Without bunch ₹50/- a. With bunch ₹300/- b. With bunch ₹200/- c. With bunch ₹75/- |
| 6. | Tapioca | 0.02 ha. | 1-5 months after planting | ₹3/- for 0.02 ha. | ₹10000/- |
| 7. | Pineapple | 0.02 ha. | 1-6 months after planting | ₹37.50/- for 0.02 ha. | (₹500/- 0.02 ha. (₹50,000/ha) |
| 8. | Pepper | Vines in 15 standards. | Bearing | ₹1.5/standard/yr ₹3/standard if premium deposited for 3 years together | ₹200/- Per vines |
| 9. | Cardamom | 1 ha. | Bearing | ₹1500/ ha/year ₹3750/ha if premium deposited for 3 years together | ₹60,000/ha. |

| | | | | | |
|-----|------------|-------------------------------------|----------------------------------|---|--|
| 10. | Ginger | 0.02 ha. | 1-5 months after planting | ₹15/- for 0.02 ha. | ₹80,000/ha. |
| 11. | Turmeric | 0.02 ha. | 1-3 months after planting | ₹15/-for 0.02 ha. | ₹60,000/ha. |
| 12. | Coffee | 10 trees | Bearing | ₹1.5/plant/year ₹3/plant if premium deposited for 3 years together | ₹350/- per plant |
| 13. | Tea | 1 ha. | Picking stage | ₹1500/ha/year ₹3750/ha if premium deposited for 3 years together | ₹70,000/- per ha. (Compensation for 10% of insured area or 2 ha. whichever is less) |
| 14. | Cocoa | 5 Nos. | Bearing | ₹1.5/tree/year ₹3/tree if premium deposited for 3 years together | ₹300/-per tree |
| 15. | Groundnut | 0.1 ha. | 1-2 months after planting | ₹37.5/- for 0.1ha. | ₹12,000/ha. |
| 16. | Sesamum | 0.1 ha. | 1 week to 1 month after sowing | ₹37.5/for 0.1 ha. | ₹12,500/ha. |
| 17. | Vegetables | 0.04ha. (with or without pandal) | 1 week to 1 month after planting | ₹10 for 10 cents | (₹25000/ha without pandal) ₹1000/- for 10 cents (₹40000/ha with pandal) |
| 18. | Nutmeg | 5 Nos. | Bearing | ₹3/tree/year ₹7.5/tree if premium deposited for 3 years together | ₹3000/- per tree |
| 19. | Clove | 5 Nos. | Bearing | ₹3/tree/year ₹7.5/tree if premium | ₹1000/- per tree |

| | | | | deposited for 3 years together | |
|-----|--|----------|--|--|--|
| 20. | Betel vine | 1 cent | Started harvesting | ₹7.50/cent/year | ₹1000/cent |
| 21. | Pulses | 0.1 ha. | 2 weeks to 1½ months after planting | ₹19/0.1ha. | ₹10000/ha |
| 22. | Tuber Crops (Amorphophallus, Sweet potato) | 0.02 ha. | 1-3 months after planting | a. Amorphophallus ₹7.5/- b. Sweet potato ₹4.5/- | a. Amorphophallus (₹35,000/ha) b. Sweet potato (₹15,000/ha) |
| 23. | Sugarcane | 0.1 ha. | 1-3 months after planting | ₹90/0.1 ha. | ₹50,000/ha |
| 24. | Tobacco | 0.02 ha. | 2 weeks to 2 months after planting | ₹3/0.02 ha. | ₹20,000/ha |
| 25. | Paddy | 0.1 ha. | 15 days after planting/sowing to 45 days | ₹25/0.1ha. | ₹15,000 within 45 days ₹35,000 after 45 days |

Source : Directorate of Agriculture.

NATURAL CALAMITY ASSISTANCE FOR CROP LOSS
Asper GO(MS)No: 182/2015/AD (Revenue-K) dept- 29.9.2015

| Sl.No. | Name of Crop | Unit | Crop assistance (Rs) |
|--------|--------------------------------------|--------------|----------------------|
| 1. | Paddy | hectare | 13500 |
| 2. | Coconut | bearing | 700 |
| 3. | Coconut | non bearing | 350 |
| 4. | Coconut | upto 1 year | 100 |
| 5. | Banana | bunched | 100 |
| 6. | Banana | non-bunched | 75 |
| 7. | Rubber | being tapped | 300 |
| 8. | Rubber (not less than 3 years old) | untapped | 200 |
| 9. | Cashew | bearing | 150 |
| 10. | Cashew (not less than 3 years old) | non bearing | 100 |
| 11. | Arecanut | bearing | 150 |
| 12. | Arecanut (not less than 3 years old) | non-bearing | 100 |
| 13. | Cocoa | bearing | 100 |
| 14. | Coffee | | 100 |
| 15. | Pepper | bearing | 75 |
| 16. | Ginger | 10 cents | 272 |
| 17. | Turmeric | 10 cents | 272 |
| 18. | Tapioca | 25 cents | 680 |
| 19. | Groundnut | hectare | 6800 |
| 20. | Sesamum | hectare | 1200 |
| 21. | Vegetables | 10 cents | 540 |
| 22. | Nutmeg | bearing/tree | 400 |
| 23. | Nutmeg (more than 3 years old) | non-bearing | 150 |
| 24. | Clove | bearing | 200 |
| 25. | Clove (more than 3 years old) | non-bearing | 100 |
| 26. | Cardamom | hectare | 18000 |
| 27. | Betlevine | 1 cent | 300 |
| 28. | Pulses | hectare | 6800 |
| 29. | Minor tubers | 10 cents | 272 |
| 30. | Sugarcane | hectare | 13500 |
| 31. | Pineapple | 10 cents | 750 |
| 32. | Fodder Crops | 10 cents | 540 |
| 33. | Mulberry | 50 cents | 3600 |
| 34. | Tobacco | 10 cents | 1500 |
| 35. | Cotton | 10 cents | 720 |

Source : Directorate of Agriculture

PESTICIDES

CALCULATIONS OF PESTICIDE FORMULATION

- Foliar spray (WP and EC/AP)**

$$\text{Qty. of Commercial insecticide formulation} = \text{Total quantity of spray solutions required for the treated area} \times \frac{\text{Strength in \% of the spray solution desired}}{\text{Strength of the chemical available}}$$

- Granules :**

$$\text{Qty. of Commercial insecticide formulation (kg)} = \frac{\text{Recommended rate (kg ai/ha)} \times \text{Area to be treated (ha)}}{\% \text{ ai in the commercial formulation}}$$

Vide Order No: G.O.M.S.No: 116/2011/Agri dt.7-5-2011 Red labelled insecticides like Carbofuran, Phorate, Methyl parathion, Monocrotophos, Methyl demeton and Yellow labelled insecticides like – Triazophos, Prephenophos and fungicides like – Ediphenphos, Tricylazole, Oxythioquinox and weedicides like Anilophos, Paraquat, Thiobencarb and Atrazin are banned in Kerala.

Vide G.O.(MS) 136/2011/AD dt 23-5-2011 Government have decided to take all efforts to prevent the illegal transfer, storage and use of Endosulfan in all parts of the state.

Source : Directorate of Agriculture, Tvp.m.

LIST OF PESTICIDES / PESTICIDE FORMULATIONS BANNED IN INDIA

a. Pesticides banned for manufacture, import and use (28 Nos)

| | | | |
|-------|----------------------------|-------|-----------------------------|
| Sl.No | Name of pesticides | Sl.No | Name of pesticides |
| 1 | Aldrin | 15 | Pantachlorophenol |
| 2 | Benzene Hexachloride | 16 | Phenyl Mercury Acetate |
| 3 | Calcium Cyanide | 17 | Sodium Methane Arsonate |
| 4 | Chlordane | 18 | Tetradifon |
| 5 | Copper Acetoarsenite | 19 | Toxafen |
| 6 | Clbromochloropropane | 20 | Aldicarb |
| 7 | Endrin | 21 | Chlorobenzilate |
| 8 | Ethyl Mercury Chloride | 22 | Dieldrine |
| 9 | Ethyl Parathion | 23 | Maleic Hydrazide |
| 10 | Heptachlor | 24 | Ethylene Dibromide |
| 11 | Menazone | 25 | TCA (Trichloro acetic acid) |
| 12 | Nitrofen | 26 | Metoxuron |
| 13 | Paraquat Dimethyl Sulphate | 27 | Chlorofenvinphos |
| 14 | Pentachloro Nitrobenzene | 28 | Lindane * |

* Banned vide Gazette Notification No. S.O 637(E) Dated 25/03/2011) – Banned for Manufacture, Import or Formulate w.e.f. 25th March, 2011 and banned for use w.e.f 25th March 2012

b. Pesticides / Pesticide formulations banned for use but their manufacture allowed for export (2 Nos)

| | |
|-------|--------------------|
| Sl.No | Name of pesticides |
| 29 | Nicotin Sulfate |
| 30 | Captafol80 Powder |

c. Pesticide formulations banned for import, manufacture and use (4 Nos)

| Sl.No | Name of pesticides |
|-------|--------------------|
| 1 | Methomy 24 L |
| 2 | Methomy 12.5 L |
| 3 | Phosphamidon 85 SL |
| 4 | Carbofuran 50 SP |

d. Pesticides withdrawn (7 Nos)

| Sl.No | Name of pesticides |
|-------|----------------------------|
| 1 | Dalapon |
| 2 | Ferbam |
| 3 | Formothion |
| 4 | Nickel Chloride |
| 5 | Paradichlorobenzene (PDCB) |
| 6 | Simazine |
| 7 | Warfarin |
| 8. | Sirmate |

e. Pesticides refused registration

| Sl.No | Name of pesticides |
|-------|----------------------------|
| 1 | Calcium Arsonate |
| 2 | EPM |
| 3 | Azinphos Methyl |
| 4 | Lead Arsonate |
| 5 | Mevinphos (Phosdrin) |
| 6 | 2,4,5-T |
| 7 | Carbophenothion |
| 8 | Vamidothion |
| 9 | Mephosfolan |
| 10 | Azinphos Ethyl |
| 11 | Binapacry1 |
| 12 | Dicrotophos |
| 13 | Thiodemeton / Disufoton |
| 14 | Fentin Acetate |
| 15 | Fentin Hydroxide |
| 16 | Chinometinonate (Morestan) |
| 17 | Ammonium Sulphamate |
| 18 | Leptophos (Phosvel) |

f. Pesticides restricted for use in India

| Sl.No | Name of pesticides | Type of Restriction |
|-------|---------------------|--|
| 1 | Aluminium Phosphide | 3g tablets in cage packing and powder form in pouch allowed for use in rat burrows |
| 2 | DDT | Banned in agriculture ; Restricted use allowed only for domestic public health program upto 10,000 MT per year |
| 3 | Lindane | Restricted use allowed only in termite control upto 24-03-2013 |

| | | |
|----|--|--|
| 4 | Methyl Bromide | To be used only be Govt. Under strict supervision of Govt. Expert or pest control operator |
| 5 | Methyl Parathion | Restricted use allowed only on crops where honeybees are not acting as pollinators |
| 6 | Sodium Cyanide | Only for fumigation of cotton bales by Plant protection Adviser to Govt. of India under expert supervision |
| 7 | Methoxy Ethyl Mercuric Chloride (MEMC) | Only for seed treatment of potato and sugarcane |
| 8 | Monocrop tophos | Banned in vegetable |
| 9 | Endosulfan | Banned in Kerala State |
| 10 | Fenitrothion | Banned in agriculture except for locust control and in public health |
| 11 | Diazinon | Banned in agriculture except for household pest control |
| 12 | Fenthion | Banned in agriculture except for locust control, household pest control and public health |
| 13 | Dezoment | Banned in tea. |

Government of Kerala
Department of Agricultural Development and Farmers Welfare
Details of Banned Pesticides (Imposed by Government of Kerala)

| Sl. No. | Sub. No. | Chemical Name | Type of | Category | Remarks |
|---------|----------|--------------------------|-------------|----------|---------------------------------------|
| 1 | i | Carbofuran | Insecticide | Red | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 2 | ii | Methyl Dematon | Insecticide | Red | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 3 | iii | Methyl Parathion | Insecticide | Red | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 4 | iv | Monocrotophos | Insecticide | Red | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 5 | v | Phorate | Insecticide | Red | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 6 | vi | Prophenophos | Insecticide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 7 | vii | Triazophos | Insecticide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 8 | viii | Methomyl | Insecticide | Red | Go(MS) No.128/2015/Agr.Dtd:28/07/2015 |
| 9 | ix | MEMC (Mercuric Chloride) | Fungicide | Red | Go(MS) No.128/2015/Agr.Dtd:28/07/2015 |
| 10 | i | Ediphenphos | Fungicide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 11 | ii | Tricyclazole | Fungicide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 12 | iii | Oxythioquinox | Fungicide | Blue | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 13 | i | Anilophos | Weedicide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 14 | ii | Paraquat | Weedicide | Yellow | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 15 | iii | Thiobencarb | Weedicide | Blue | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |
| 16 | iv | Atrazine | Weedicide | Blue | GO(MS) No.116/2011/Agr.Dtd:07/05/2011 |

Details of Restricted Pesticides (Imposed by Government of Kerala)

| | | | | | |
|---|-----|--------------------|-------------|--------|---|
| 1 | i | Acephate | Insecticide | Blue | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 2 | ii | Carbosulphan | Insecticide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 3 | iii | Chlorphyriphos | Insecticide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 4 | iv | Cypermethrin | Insecticide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 5 | v | Lambda Cyhalothrin | Insecticide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 6 | vi | 2, 4 D | Weedicide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |
| 7 | vii | Glyphosate | Weedicide | Yellow | Go(MS) No. 128/2015/Agri.Dtd:28.07.2015 |

Substitutes for pesticides banned by Govt. of Kerala vide G.O.(MS) No.116/2011/Agri. Dated: 7/5/2011

(Interim Recommendations)

| Sl. No. | Name of Chemical banned | Present Recommendation of the Chemical for Crop/Pest as per KAU Package 2007 | Substitute chemicals recommendation against banned chemical | Colour code (Tox. Class) of the chemical | Dosage per hectare of formulated product of substitute chemicals |
|---------|-------------------------|--|---|---|---|
| 1 | Endosulfan | Not recommended by KAU | 1. Carbaryl 50% WP 2. Quinalphos 25% EC | Yellow Yellow | 588 g/ha. 1.5 L/ha. |
| 2 | Carbofuran | 1. Rice Stem Borer, Gall Midge, BPH, GLH, Hispa, Nematodes | 1. Carbosulfan 6% G (R) 2. Cartap hydrochloride 4% G 3. Quinalphos 5% G 4. Fipronil 0.3% G 5. Chlorantraniliprole 0.4% G 6. Thiamethoxam 25% WG 7. Flubendiamide 39.35% SC 8. Flubendiamide 20% WG 9. Imidacloprid 17.8% SL 10. Acephate 75 SP (R) | Yellow Yellow Yellow Yellow Yellow Green Blue Green Green Yellow Blue | 16.7 Kg/ha. 25 kg/ha. 5 kg/ha. 25 kg/ha. 10 kg/ha. 100 g/ha. 50 m/ha. 125 g/ha. 125 m/ha. 1.0 kg/ha. |
| | | 2. Banana Aphid (Vector of virus diseases) Nematodes | 1. Dimethoate 30 EC 2. Carbosulfan 6% G (R) | Yellow Yellow | 1.98 L/ha. 16.7 kg/ha. |

The following management practices should be adopted against virus diseases in banana

1. Field Sanitation through massive campaign
2. Enforcement of domestic quarantine of planting materials
3. Production and distribution of disease free virus indexed, tissue culture plantlets
4. Paring of suckers followed by hot water treatment and application of neem cake
5. Crop insurance scheme to be streamlined.

| | | | | | |
|---|-----------------------|--|--|--|---|
| 3 | Phorate (Red) | 3.Brinjal (Sucking Pests) | 1.Azadirachtin 1% EC 2.Azadirachtin 0.03% EC 3.Spinosad 45% SC 1. Carbosulfan 6% G (R) | Green Green Blue Yellow | 1-1.5 L/ha. 5 L/ha. 160 ml/ha. 16.7 kg/ha. |
| | | 4. Cardamom Nematodes | 1. Carbosulfan 6% G (R) 2. Cartap hydrochloride 4% G 3. Quinalphos 5% G 4. Fipronil 0.3% GR 5. Chlorantraniliprole 0.4% G 6. Thiamethoxam 25% WG 7. Flubendiamide 39.35% SC 8. Flubendiamide 20% WG | Yellow Yellow Yellow Yellow Green Blue Green Green | 16.7 g/ha. 25 Kg/ha. 5 Kg/ha. 25 Kg/ha. 10 kg/ha. 100 g/ha. 50 ml/ha. 125 g/ha. |
| 4 | Methyl Parathion(Red) | 1.Rice BPH, Thrips, Hoppers, bugs, leaf folder | 1. Quinalphos 5% G 2. Quinalphos 25% EC 3. Carbaryl 5% DP 4. Carbaryl 85% WP 5. Chlorpyrifos 20% EC (R) 6. Fipronil 5% SC 7. Thiamethoxam 25% WG 8. Acephate 75 SP (R) | Yellow Yellow Yellow Yellow Yellow Yellow Blue Blue | 5 kg/ha. 1.5 L/ha. 25 kg/ha. 588 g/ha. 1.87 L/ha. 1.5 L/ha. 100 g/ha. 1.0 kg/ha. |
| | | For Stem borer and leaf folder | 1. Cartap hydrochloride 4% G 2. Cartap hydrochloride 50% SP 3. Fipronil 80% WG 4. Chlorantraniliprole 18.5% SC 5. Chlorantraniliprole 0.4% G 6. Flubendiamide 39.35% SC 7. Flubendiamide 20% WG | Yellow Yellow Yellow Green Green Green Green | 25 kg/ha. 1.0 kg/ha. 62.5 g/ha. 150 m;/ha. 10.0 kg/ha. 50 ml/ha. 125 g/ha. |

| | | | | | |
|--------------------------------|-------------------------------|---|--|--------|-------------|
| 5 | Monocrotophos(Red) | 1.Rice BPH, Stem Borer, Leaf Folder | 8.Imidacloprid 17.8% SL | Yellow | 125 ml/ha. |
| | | | 9.Acephate 75 SP (R) | Blue | 1.0 kg/ha. |
| | | | 1.Quinalphos 5% G | Yellow | 5 kg/ha. |
| | | | 2.Quinalphos 25% EC | Yellow | 1.5 L/ha. |
| | | | 3.Carbaryl 5% DP | Yellow | 25 kg/ha. |
| | | | 4.Carbaryl 85% WP | Yellow | 588 g/ha. |
| | | | 5.Chlorpyrifos 20% EC (R) | Yellow | 1.87 L/ha. |
| | | | 6.Fipronil 5% SC | Yellow | 1.5 L/ha. |
| | | | 7.Thiamethoxam 25% WG | Blue | 100 g/ha. |
| 8.Acephate 75 SP (R) | Blue | 1.0 kg/ha. | | | |
| For Stem borer and leaf folder | | | | | |
| 6 | Cardamom (Thrips & pod borer) | | 1.Cartap hydrochloride 4% G | Yellow | 25.0 Kg/ha. |
| | | | 2.Cartap hydrochloride 50% SP | Yellow | 1.0kg/ha. |
| | | | 3.Fipronil 80% WG | Yellow | 62.5g/ha. |
| | | | 4.Chlorantraniliprole 18.5% SC | Green | 150 ml/ha. |
| | | | 5.Chlorantraniliprole 0.4% Gr | Green | 10 kg/ha. |
| | | | 6.Flubendiamide 39.35% SC | Green | 50 g/ha. |
| | | | 7.Flubendiamide 20% WG | Green | 125 g/ha. |
| | | | 8.Acephate 75 SP (R) | Blue | 1.0 kg/ha. |
| | | | 1.Quinalphos 25% EC | Yellow | 1.2 L/ha. |
| 2.Phenthoate 50%EC | Yellow | 500 ml/ha. | | | |
| 3.Diafenthiuron 50% WP | Blue | 800 g/ja. | | | |
| 4.Dimethoate 30% EC | Yellow | 830 ml/ha. | | | |
| 6 | Methyl demeton(Red) | Sucking Pests (No specific recommendation by KAU) | Not available in Kerala and hence no substitute proposed | | |
| 7 | Triazophos (Yellow) | Rice Leaf Folder | 1.Cartap hydrochloride 4% G | Yellow | 25.0 kg/ha. |
| | | | 2.Cartap hydrochloride 50% SP | Yellow | 1.0 kg/ha. |
| | | | 3.Fipronil 80% WG | Yellow | 62.5 g/ha. |

4. Chlorantraniliprole 18.5% SC 150 ml/ha. Green
5. Chlorantraniliprole 0.4% Gr 10 kg/ha. Green
6. Flubendiamide 39.35% SC 50 ml/ha. Green
7. Flubendiamide 20% WG 125 g/ha. Green
8. Spinosad 45 SC 160 ml/ha. Blue

- 8 Profenophos (Yellow) No specific recommendation Widely used to Kerala without recommendation of KAU or approval by CIB-RC Label claim available for tea only
- Use of carbofuran is permitted for insecticide trials as check/control for research purpose in Kerala Agricultural University. Kerala Agricultural University will be conducting detailed field trials to identify suitable chemicals/pesticides for substituting the banded chemicals. For this purpose a detailed project proposal will be submitted by the Director of Extension, Director of Research, KAU, for funding from RKVY for an approximate amount of Rs.300lakhs.

Fungicides

| Sl. No. | Name of Chemical formulated product | Present Recommendation | Substitute chemicals | Colour code (Tox. Class) | Dosage /ha. of |
|---------|---|------------------------|---|--------------------------|--|
| 1 | Methoxy Ethyl Mercuric Chloride, MEMC (Red) | Riosewood damping off | Substitute is to be evolved through filed trials. However, in case of exigency Bordeaux mixture 1% may be used | | |
| 2 | Ediphenphos (Yellow) | Rice blast | <ol style="list-style-type: none"> 1. Carpropamid 27.8% SE Green 2. Carbendazim 50% WP Green 3. Isoprothiolane 40% EC Blue 4. Kresoxim Methyl 44.3% SC Green 5. Tebuconazole 25.9% EC Blue | | <ol style="list-style-type: none"> 500 ml/ha. 500 g/ha. 750 ml/ha. 500 ml/ha. 750 g/ha. |
| | | Rice sheath blight | <ol style="list-style-type: none"> 1. Carbendazim 50% WP Green 2. Kresoxim Methyl 44.3% SC Green 3. Tebuconazole 25.9% EC Blue | | <ol style="list-style-type: none"> 500 g/ha. 500 ml/ha. 750 g/ha. |

| | | | | | | | | | |
|--|--|--|--|--|--|--|---|--|--|
| | | | | | | | <p>4.Pencycuron 22.9%SC 750 ml/ha. 5.Flusilazole 40% EC 300 ml/ha. 6.Hexaconazole 5% EC 1.0 L/ha. 7. Iprodione 50%WP 2.25 kg/ha.</p> | | |
| | | | | | | | <p>1.Carbendazim 50% WP 500 g/ha. 2.Propineb 70% WP 2.0 kg/ha. 1.Carbendazim 50% WP 500 g/ha 2.Carboxin 75% WP 500 g/ha</p> | | |
| | | | | | | | <p>1.Carbendazim 50% WP 2g/kg seed 2.Biocontrol with <i>Pseudomonas fluorescens</i> 10g/kg seed</p> | | |
| | | | | | | | Substitute to be evolved through fields trials. Both the crops are seldom cultivated in Kerala | | |
| | | | | | | | However to case of exigency spray Carbendazim 50% WP @ 500 g/ha. | | |

Herbicides

| Sl. No. | Name of Chemical | Present Recommendation for Crop/Pest as per KAU Package 2007 | Substitute chemicals | Colour code (Tox. Class) I | Dosage of formulated product |
|---------|--------------------|--|---|----------------------------|------------------------------|
| 1 | Paraquat(Yellow) | Non crop situation | 1.Glyphosate 41% SL (R) | Blue | 0.5 kg/ha. |
| 2 | Anilophos (Yellow) | Rice | 1.Butachlor 50% EC 2.Pretilachlor 50%EC | Blue Blue | 1.25 kg/ha. 1.5 kg/ha. |
| 3 | Atrazin (Blue) | Sugarcane | 1.Diuron 80% WP | Blue | 1.5 kg/ha. |
| 4 | Thiobencarb (Blue) | Rice | 1.Butachlor 50% EC 2. Pretilachlor 50%EC | Blue Blue | 1.25 kg/ha. 1.5 kg/ha. |

(R)* - Restricted use

(v) READY RECKONER FOR MAKING 100 LITRES OF SPRAY SOLUTION OF DESIRED STRENGTH

| % of pesticide /fungicide required in the diluted spray 0.01 | Formulation in g or ml required per 100 litres of water | | | | | | | | | |
|--|---|---------|---------|------|--------|--------|------|------|------|-------|
| | Percentage of ai. in the Formulation | | | | | | | | | |
| | 100 | 80 | 75 | 50 | 40 | 35 | 30 | 25 | 20 | 10 |
| | 10 | 12.50 | 13.30 | 20 | 25.0 | 28.5 | 34 | 40 | 50 | 100 |
| 0.015 | 15 | 18.75 | 19.95 | 30 | 37.5 | 42.8 | 51 | 60 | 75 | 150 |
| 0.02 | 20 | 25.00 | 26.60 | 40 | 50.0 | 57.1 | 67 | 80 | 100 | 200 |
| 0.025 | 25 | 31.25 | 33.25 | 50 | 62.5 | 71.4 | 83 | 100 | 125 | 250 |
| 0.03 | 30 | 37.50 | 39.90 | 60 | 75.0 | 85.7 | 100 | 120 | 150 | 300 |
| 0.035 | 35 | 43.75 | 46.55 | 70 | 87.5 | 100.0 | 119 | 140 | 175 | 350 |
| 0.04 | 40 | 50.00 | 53.20 | 80 | 100.0 | 114.3 | 134 | 160 | 200 | 400 |
| 0.045 | 45 | 56.25 | 59.80 | 90 | 112.5 | 128.8 | 153 | 180 | 225 | 450 |
| 0.05 | 50 | 62.50 | 66.50 | 100 | 125.0 | 142.9 | 167 | 200 | 250 | 500 |
| 0.075 | 75 | 93.75 | 100.00 | 150 | 187.5 | 214.3 | 252 | 300 | 375 | 750 |
| 0.1 | 100 | 125.00 | 133.00 | 200 | 250.0 | 285.7 | 334 | 400 | 500 | 1000 |
| 0.2 | 200 | 250.00 | 266.00 | 400 | 500.0 | 571.5 | 668 | 800 | 1000 | 2000 |
| 0.25 | 250 | 312.50 | 331.00 | 500 | 625.0 | 714.3 | 835 | 1000 | 1250 | 2500 |
| 0.3 | 300 | 375.00 | 399.90 | 600 | 750.0 | 857.1 | 1000 | 1200 | 1500 | 3000 |
| 0.4 | 400 | 500.00 | 532.00 | 800 | 1000.0 | 1143.0 | 1340 | 1600 | 2000 | 4000 |
| 0.5 | 500 | 625.00 | 665.00 | 1000 | 1250.0 | 1429.0 | 1670 | 2000 | 2500 | 5000 |
| 1.0 | 1000 | 1250.00 | 1330.00 | 2000 | 2500.0 | 2857.0 | 3340 | 4000 | 5000 | 10000 |

BOTANICAL PESTICIDES

1. Leaf / Plant Extract

Preparation of 5% extract

Macerate 50g of leaf / plant in a mixer. Soak the macerated product in 1 litre of water for 24-48 hours. Strain the solution and spray.

2. Neem Seed Kernel Extract (NSKE)

Preparation of 5% NSKE

Grind neem kernel to coarse powder. Take 50g of the powder in a cloth bag and dip it in 1/2 litre of water for 24 hours. Squeeze the cloth bag repeatedly till the out flow turns light brown. Dissolve 5g of ordinary bar soap in 0.5 litre of water. Add the soap solution to the kernel extract, stir well and spray.

3. Tobacco decoction

Steep 500 g of tobacco waste in 4.5 litre of water for 24 hours. Dissolve 120g. of ordinary bar soap separately in 0.5 litre of water. Add the soap solution to the tobacco extract and stir vigorously. Add 5 litres of water to this stock solution and spray.

4. Neem oil + garlic 2% emulsion

Preparation of 10 litres

Ingredients : 200 ml neem oil, 200g garlic and 50g ordinary bar soap.

Preparation : Slice the bar soap and dissolve in 500 ml luke warm water. Grind the garlic pearls, mix it with 300 ml water and strain to prepare garlic extract. Pour the 500 ml soap solution into 200ml neem oil slowly and stir vigorously to get a good emulsion. Mix the garlic extract in the neem oil + soap emulsion. Dilute this 1 litre stock solution by adding 9 litres of water to get 10 litres of 2% neem oil + garlic emulsion.

5. Preparation of 5% Cashew Nut Shell Liquid (CNSL) emulsion

To prepare 10 litres of 5% CNSL emulsion, 500 ml of CNSL and 50 g bar soap are required. Slice the bar soap and dissolve in 500 ml of water. Pour 500 ml of CNSL slowly and stir vigorously to get a good emulsion. Dilute this one litre solution by adding 9 litres of water to get 10 litres of 5% CNSL emulsion.

BOTANICAL PREPARATIONS FOR PEST CONTROL

| 1. Neem / <i>Azadirachta indica</i> | | |
|---|--|---|
| Preparation | Dose | Pest |
| Neem Leaf | 250 g / plant | Nematodes of bhindi, brinjal |
| Leaf Extract | 2-5% | Leaf feeders of amaranthus like <i>Spodoptera litura</i> & leaf webber, aphids of vegetables |
| Neem Twig | Planting neem twigs in coconut gardens after receipt of monsoon rains during April - May for controlling root grubs. | |
| NSKE | 3-5% | Aphid of brinjal, Shoot & Fruit borer of okra, brinjal <i>Helicoverpa armigera</i> of tomato and cowpea, Pod fly of cowpea, American Serpentine Leaf miner of Vegetable (ASLM) (Cucurbits, brinjal, cowpea), Ornamentals (Marigold) |
| Neem oil | 2.5-10% | Pea aphid, ASLM, Epilachna Beetle, Mites of vegetables. |
| Neem oil | 4 % | GLH, BPH of rice |
| Neem Cake | 250 kg/ha | Shoot & fruit borer of bhindi, brinjal |
| Neem Cake Extract | 10% | Root knot nematode of vegetables |
| 2. Custard apple - <i>Annona squamosa</i> | | |
| Leaf Extract + Cow's urine | 10% + 10% | Leaf feeders |
| Seed Extract | 2-5 % | Lepidopteran pests like Epilachna beetle of Brinjal & Bitter gourd, Pea Aphid, Stem Borer, Bugs. |
| 3. Tobacco - <i>Nicotiana tabacum</i> | | |
| Tobacco decoction | Soft bodied insects of all kinds (aphids, jassids, mealy bugs, hoppers) | |
| 4. Clerodendron - <i>Clerodendron infortunatum</i> | | |
| Plant extract | 4-8% | Tobacco caterpillar, Epilachna beetle of brinjal, cucurbits, Leaf roller of okra |

| | | |
|---|---|--|
| Fresh plant or shade dried powdered plant mixed with cow dung | 1:10 | Rhinoceros beetle of coconut |
| 5. Vilaitulsi - <i>Hyptis suaveolens</i> | | |
| Plant Extract | 10% | Aphid and soft bodied pests of vegetables |
| 6. King of bitters - <i>Andrographis paniculate</i> | | |
| Plant Extract | 10% | Jassids of cucurbits, Leaf caterpillars |
| 7. Yellow Oleander - <i>Thevetia neriiifolia</i> | | |
| Leaf Extract | 4-10% | Leaf Webber of Amaranthus, Aphids of Brinjal and Cowpea. Leaf roller of Bhindi, Epilachna Beetle of brinjal |
| Seed Extract | 2% | Leaf feeders like epilachna beetle of brinjal & bitter gourd |
| 8. <i>Chromolaena Eupatorium odorata</i> | | |
| Leaf | 15 t/ha two weeks before planting Mulching @ 3 t/ha at 30 days after planting | Nematodes of Vegetables . Sweet potato Weevil |
| 9. Tulsi-<i>Ocimum spp</i> | | |
| Plant | Handful of crushed ocimum + 10g jaggery + 0.5 g Custard apple seed extract 5% | Fruit fly of cucurbits, mango |
| 10. Chinese chaste tree - <i>Vitex negunda</i> | | |
| Leaf Extract | 5-10% | Fruit & shoot borer of okra, Leaf caterpillars of cucurbits, H. armigera of chick pea. |
| Dried powdered leaf | 1:100 | Stored product pests |
| 11. Lantana - <i>Lantana camara</i> | | |
| Plant extract + Cow's urine | 10% + 10% | Soft bodied pests |
| Mixtures | | |
| 1. Tobacco decoction +T. neriiifolia leaf extract (4%) Tobacco decoction +C. infortunatum (4%) | | |

Effective against pests of amaranthus, okra, brinjal, bitter gourd and cow pea.

2. Neem oil (20 ml) + garlic 20g + 5g soap / litre of water - Coconut eriophyid Mite.
3. A. paniculata extract (10%) + cow's urine (10%) + 10g bird chilli / litre - caterpillar pest.
4. Neem oil (20ml) + Pongamia oil (10ml) + garlic (20 g) + 5g soap / litre given as 3 sprays - panicle initiation, berry formation & berry maturation controls pollu beetle of pepper.
5. Keeping castor cake soaked in water @ 1 Kg/ 5 litre of water in small mud pots in coconut garden attracts rhinoceros beetles which can be collected and killed.

PREPARATION OF PERMITTED FUNGICIDES FOR ORGANIC FARMING

Bordeaux mixture (1%)

Dissolve 1kg of powdered copper sulphate crystals in 50 litres of water. In another 50 litres of water, prepare milk of lime with 1 kg of quick lime. Pour the copper sulphate solution into the milk of lime slowly stirring the mixture all the while. Test the mixture before use for the presence of free copper, which is harmful to the plants, by dipping a polished knife in it. If the blade shows a reddish colour due to the deposit of copper, add more lime till the blade is not stained on dipping. Always use wooden, earthen or copper vessels for the preparation of Bordeaux mixture. Use the fungicide in the same day of preparation.

In order to confer sticking qualities to Bordeaux mixture, rosin washing soda mixture, may be added. The addition of the sticker is particularly recommended for sprayings conducted during rainy season. For preparing the mixture, 10 litres of water out of 100 litres required for preparing Bordeaux mixture may be kept apart. Boil 10 litres of water, preferably in an earthen pot and add 500 g of good quality washing soda (sodium carbonate). Boil again until the solution becomes slightly dark in colour. Add one kg of powdered rosin (arpoons) in the boiling washing soda solution. Reduce the flame for avoiding frothing, foaming and spilling over. Boil the solution for 5-10 minutes till the black bubbles appear. Cool the solution until the temperature reaches below 45 degree Celsius. The cooled mixture (10 litres) is then added slowly to the prepared Bordeaux mixture (90 litres) under vigorous stirring.

Bordeaux paste

Dissolve 100 g of copper sulphate and 100 g of quick lime each in 500 ml of water separately. Mix together to make one litre of the paste.

CROP PROTECTION

MANAGEMENT OF PESTS

RICE

VARIETAL RESISTANCE / TOLERANCE

While selecting the varieties for organic farming, emphasis should be given to multiple resistance / tolerance to major pests of that locality. Use of a variety with some degree of genetic resistance, combined with other non chemical methods can manage the pests effectively.

Rice varieties with multiple tolerance to major pests

| | |
|---|--|
| Aruna, Aathira, Aiswarya, Nila, Revathy | |
| Remanika, Karishma, Krishnanjana | - BPH and gall fly |
| Nila (PTB 48) | - Thrips, PH, gall midge, stem borer |
| Kanakom, Karthika | - BPH, stem borer and gallfly |
| Makom, Reshmi | - BPH, stem borer, gall fly |
| Aruna | - BPH, stem borer, gall midge |
| Jayathi | - BPH, GLH and leaf roller |
| Bhagya | - BPH, WBPH |
| Kanchana | - Stem borer, gall midge |
| Sagara, Deepthi | - Stem borer, leaf roller |
| Varna (VK1) | - Leaf folder, whorl maggot and stem borer |
| Lakshmi | - BPH, Stem borer and leaf roller |
| Dhanya | - Stem borer, gall midge |
| Kairali | - Leaf roller and gall fly |

CULTURAL CONTROL

Pest incidence can be minimized by adjusting and modifying the cultivation practices. Some of the cultural practices that can be adopted by the farmers are:

1. Field sanitation by incorporation of stubbles immediately after harvest will help to destroy over wintering population of insect pests like stem borer and gall midge. Deep ploughing after harvest is recommended.
2. Optimum seed rate and spacing : High seed rate and closer planting cause thick population which favours the pests like leaf folder, BPH etc.
3. Timely sowing or planting is important to avoid pest incidence. Altering the dates of sowing / transplanting preferably not coinciding the favourable climate for pest outbreak. For example late planting in the first crop season favours the incidence of gall midge. Hence late planting should be avoided.
4. May of the weeds will serve as alternate and collateral hosts of several pests. Destruction of weeds in the field and bunds will help in reducing the population build up of the pests.
5. Draining the field for two days will help to reduce case worm incidence. The incidence of thrips can be reduced by flooding the field for 24 hours.

MECHANICAL CONTROL

For controlling case worm, pull kerosinised rope across plants to dislodge cases hanging on the plants into water and then drain off the water.

Removal of egg masses of stem borer from the plant will help to reduce the pest population.

Light traps:

Installation of light traps in the field would attract and kill the moths of leaf folder, stem borer, BPH, gall fly and rice bug.

Pheromone traps:

Pheromones have been found effective for the management of yellow stem borer and can be utilized for monitoring as well as for direct control through male annihilation either by mass trapping or by disrupting mating communication.

For monitoring stem borer population, three traps should be installed at an inter trap distance of 60 m in a triangular pattern in one acre field. Male moth catch is recorded at three days interval. Sudden increase in the average catch of the trap coincides with the emergence of adults. Weekly catch of 30 males per trap can be taken as the capture threshold which precedes borer damage.

Mass trapping of stem borer by installing pheromone traps @ 20 numbers / ha can effectively reduce the stem borer damage. The pheromone trap is retained throughout the crop stage by replacing 3-4 times the 5 mg lure at 20 day intervals. Pheromone traps can be installed in the nursery also.

BIOLOGICAL CONTROL

Organic farming favours conservation of natural enemies in the rice field, which in turn help to keep the pest population low. The common natural enemies found in the rice ecosystems are:

Dragon flies and Damsel flies, Spiders, Predatory bugs, Predatory beetles, Predatory grasshoppers, Egg parasitoids, Larval parasitoids etc.

Inundative release of Parasitoids

The egg parasitoid *Trichogramma* is a widely used biocontrol agent in rice through out the country for the control of stem borer and leaf folder. *Trichogramma japonicum* is effective against stem borer and *Trichogramma chilonis* is effective against leaf folder. 5 cc egg cards is sufficient for installation in one hectare. Six releases of these parasitoids at weekly intervals is required for a crop season. For the control of stem borer, the egg cards have to be installed in the field starting from the first week after transplanting and for leaf folder, the installation has to be started from 20 days after transplanting or when the moths of these pests are observed in large numbers in the field.

Botanical pesticides

Utilisation of botanical formulations especially neem formulations is an ecofriendly method of pest control in rice. Neem formulations act as feeding deterrents, growth retardants, oviposition deterrents and reproductive inhibitors. Application of 2% neem oil or 10% neem cake extract can control rice thrips.

Pocket application of biopesticides may be adopted in heavily infested areas to control further spread of the pests and to conserve the existing natural enemy population. Careful monitoring of the field is very important to adopt proper pest management practices in a timely manner.

COCONUT

Rhinoceros
beetle

- ◆ Provide field sanitation to prevent breeding of beetles
- ◆ Hook out the beetles from the attacked palms by using beetle hook.
- ◆ The topmost three leaf axils around the spindle may be filled with 250g neem cake or marotti cake mixed with equal volume of sand in the innermost 2-3 leaf axis. This treatment is to be done twice, i.e., during

April-May before the onset of South-West monsoon and during September-October after the South-West monsoon.

- ◆ Incorporation of *Clerodendron infortunatum* @10% w/w basis in the cowdung pit/manure pit.
 - ◆ Dust manure pit walls with lime powder and plaster with cow dung.
 - ◆ Boil castor cake and groundnut cake with a little quantity of water. Keep in earthen pots near light source to attract beetles, which can be collected and killed.
 - ◆ Mix sand (250 g) and neem seed powder (100 g) and fill inner leaf sheaths of youngest leaves.
 - ◆ Release *Baculovirus oryctes* infected adults @ 10-15/ha to bring down the pest population.
 - ◆ Inoculation of breeding sites with entomopathogenic fungus *Metarrhizium anisopliae* (@ 5×10^{11} spores/ml) gives effective control.
 - ◆ Field sanitation should be given prime importance.
 - ◆ Avoid making steps or any other injury on the tree trunks to reduce the loci of infestation
 - ◆ Leaf axil filling as suggested in the case of rhinoceros beetle will be useful against the red palm weevil also.
 - ◆ When green leaves are cut from the palms, stumps of not less than 120 cm may be left on the trees in order to prevent successful inward movement of the grubs through the cut end.
 - ◆ Clean the crown periodically before and after rain.
 - ◆ Mix sand and nerium seed powder and fill the bore holes.
 - ◆ Coconut log traps with fermenting toddy or pineapple or sugarcane activated with yeast or molasses can be set in coconut plantation to attract and trap the free floating population of red palm weevil.
 - ◆ Use of pheromone trap for attracting and killing adult weevils @ one trap per 2 ha.
- Red palm weevil
- ◆ As a prophylactic measure, the first affected leaves may be cut and burnt during the beginning of the summer season.
 - ◆ Arrange for the release of larval/pupal parasitoids, *Goniozus nephantidis*, *Elasmus nephantidis* (brown species) and *Brachymeria nosatoi*.
 - ◆ Mix extract of 2kg neem seed kernal and 200g soap in 200 litres of water and spray followed by release of larval/pupal parasites.
- Leaf eating caterpillar
- ◆ Collection and destruction of adults during the monsoon period from adjacent vegetation (in the evening)
 - ◆ Plough or dig the infested soil synchronizing with pre-monsoon showers.
 - ◆ Apply sugar solution in coconut basin near root zone.
 - ◆ Leaf loppings of *Anacardium occidentale*, *Tamarindus indica* and *Tectona grandis* and drenching with cashewnut shell liquid (CSNL) solution (2% v/v) is effective against root grub.
- Cockchafer beetle

Note : Wherever possible, light traps may be set up to attract and trap adult beetles.

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| Coconut eriophyid mite | <ul style="list-style-type: none">◆ Collect and destroy all the fallen buttons of the affected palm.◆ Apply 2% neem oil+garlic emulsion or commercial neem formulation azadirachtin 0.004% (Neemazal T/S 1% @ 4 ml per litre of water) or micronized wettable sulphur 0.4% in the crown on young bunches.◆ Improving nutrient status by applying organic manure at the rate of 50 kg and neem cake 5 kg per palm per year. Also apply the recommended dose of fertilizers in two split applications.◆ Growing compatible intercrops/mixed crops.◆ Providing adequate irrigation. |
| Mealy bug | <ul style="list-style-type: none">◆ Remove and destroy all dried up inflorescence and unproductive buttons. Neem garlic emulsion 2% applied on infested bunches checks button mealy bugs. |
| Rodents | <ul style="list-style-type: none">◆ Boil 10kg wheat and two large pieces of glyricidia bark and broadcast in field as bait.◆ Mix gypsum and sugar and keep in places as bait where rats are frequent.◆ Take one part nerium seed powder + nine parts rice + one part coconut pulp + a little oil. Mix well and use as a bait.◆ Mix shrimp powder and cement (dry) and keep as bait. Pre baiting with shrimp powder alone will be more effective.◆ Use tin barrier around tree trunk to prevent rat damage. |

DISEASE MANAGEMENT

RICE

Varietal resistance

Select varieties with built in resistance to major diseases.

Blast : Rohini, Bharati, Mattatriveni, Jayathi, Neeraja, Kairali, Kanchana, Nila, Aathira, Aiswarya, Harsha, Kanakom, Renjini, Remanika, Lakshmi, Onam, Dhanya, Sagara, Deepthi, Ahalya.

Sheath blight : Reshmi, Mattatriveni, Nila, Kairali, Karthika, Aathira, Aiswarya, Pavizham, Karthika, Aruna, Makom, Remya, Kanakom, Gouri, Lakshmi, Bhagya, Onam, Dhanya and Sagara.

Cultural practices

- ◆ Deep summer ploughing of the fields
- ◆ Use properly dried, disease free seeds.
- ◆ Follow optimum time for sowing / plaining
- ◆ Apply rice hull ash @ 100 g/m² which will help to reduce the incidence of blast in the nursery.
- ◆ Destroy / remove disease harbouring weeds from the field.
- ◆ Give optimum spacing

- ◆ Follow proper water management. Water logging favours diseases like sheath blight. Draining the field for one or two days will help to reduce the spread of the disease.
- ◆ Avoid clipping of leaf tips at the time of transplanting in bacterial blight endemic areas.

Note : Incorporation of green manures like *Pterocarpus marsupium*, *Eupatorium odoratum* and *Mangifera indica* (Mango) @ 5 t/ ha or application of leaves of plants such as *Lawsonia inermis*, *Calotropis*, *Azadirachta indica*, *Datura stramonium* and *Glyricidia* @ 2.5 t / ha will also reduce incidence of sheath blight.

Bio-control agents

Application of *Pseudomonas fluorescens* P1 in different ways viz., seed treatment, seedling root dip, soil application or foliar spray will effectively control fungal diseases and bacterial diseases.

Seed treatment : Treat the seeds with talc based formulation @ 10 g per kg of seed. In wet sowing in practiced, treated seeds are soaked in water for 12 hours. Drain the excess water and keep for sprouting.

Seedling root dip : Dip the roots of the seedlings before transplanting in solution of *P. fluorescens* (20g/ litre) for 30 minutes. Seedling root dip can be easily done in the field itself. Water is to be impounded in the field by taking pits or making bunds and mix the talc based formulation in water. The pulled out seedlings are to be kept in such a way so as to immerse the roots in *P. fluorescens* mixed water. After half an hour seedlings are planted in the main field. For dipping the seedlings for one ha, 2.5 kg talc based formulation is required.

Soil Application : Apply talc based formulation of *P. fluorescens* @ 2.5 kg per ha one week after transplanting or 30 – 40 days after sowing for the direct sown crop. Mix 2.5 kg of *P. fluorescens* with 50 kg dried cow dung or sand and broadcast in the field. Dewater the field before the application of the culture.

Foliar spray: *P. fluorescens* can be sprayed on the foliage @ 20 g/ litre of water. Spraying can be repeated depending on the disease severity. The application of *P. fluorescens* for a minimum of three times like seed treatment, seedling root dip and one foliar spray will be very effective in providing protection of rice crop from disease incidence.

PGPR mix II : root dip and foliar application of PGPR mix II give effective protection against fungal and bacterial diseases.

Foliar spray of cow dung slurry is also effective for the management of bacterial blight of rice. Fresh cow dung @ 20 g/ litre is mixed in water and the supernatant is used for spraying. The bacteriophages present in the cow dung act against the pathogenic bacteria present on the plant. 500 litres of cow dung liquid is need for one hectare.

COCONUT

Bud rot

- ◆ In early stages of the disease (when the heart leaf starts withering) cut and remove all affected tissues of the crown. Apply Bordeaux paste and protect it from rain till normal shoot emerges.
- ◆ Burn all disease-affected tissues removed from the palm.

| | |
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| | <ul style="list-style-type: none"> ◆ Spray 1% Bordeaux mixture on spindle leaves and crown of disease affected as well as neighbouring palms, as a prophylactic measure. ◆ Adopt control measures for rhinoceros beetle. ◆ Provide adequate drainage in gardens. ◆ Adopt proper spacing and avoid over crowding in bud rot prone gardens. |
| Mahali | <ul style="list-style-type: none"> ◆ Spray 1% Bordeaux mixture on the crown of palms, once before the monsoon and once or twice later on at intervals of 40 days. |
| Root (wilt) disease | <ul style="list-style-type: none"> ◆ Rogue out palms that are affected severely by root (wilt) and yield less than 10 nuts/palm/year and those, which have contracted the disease before flowering. Replant with disease tolerant material/high yielding hybrids (Chandrasankara) ◆ Growing green manure crops like sunhemp, sesbania, cowpea and calapagonium in the coconut basin and their incorporation in situ is beneficial as the practice reduces the intensity of the root (wilt) and increases the nut yield. The ideal green manure crops for the sandy and alluvial soils are cowpea and sesbania, respectively. ◆ Apply manures in 10 cm deep circular basins at a radius of 2 m from the base of the palm. ◆ When the crop is grown under the bund and channel system, desilt the channel and strengthen the bunds during summer months. ◆ Ensure proper drainage in the field during rainy season. ◆ Follow strictly all the prescribed prophylactic measures against leaf rot disease, red palm weevil, rhinoceros beetle etc. so as to ensure that the palms are not debilitated. To maintain the productivity of the palms, prophylactic measures are of great importance. Apply <i>Trichoderma</i> + <i>Pseudomonas fluorescence</i> so as to enhance the soil health. <p>Package for severely affected areas : Apply FYM 25kg + coirpith compost 25 kg + wood ash 5kg + kayal silt (if available) per coconut basin. Sow 35 g of cowpea seeds per basin of 1m width and incorporate the biomass in the soil. Bury coconut husks of 25 coconuts in the basins and apply water.</p> |
| Leaf rot | <ul style="list-style-type: none"> ◆ Remove the rotten portions from the spear and the two adjacent leaves. ◆ Spray crowns and leaves with 1% Bordeaux mixture in January, April-May and September. While spraying care has to be taken to spray the spindle leaf. ◆ Application of <i>Pseudomonas fluorescence</i> 2% suspension in the leaf at the initial stage of infection. |
| Stem bleeding | <ul style="list-style-type: none"> ◆ Chisel out completely the affected tissues and paint the wound with Bordeaux paste. |

- ◆ Destroy the chiseled materials by burning. Avoid any mechanical injury to trunk.
 - ◆ Apply neem cake @ 5 kg per palm in the basin along with other organics.
 - ◆ Apply *Trichoderma* @ 50g/ palm along with FYM.
- Grey blight
- ◆ Remove severely affected older leaves and burn. Spray the trees with 1% Bordeaux mixture.
- Tanjore wilt
- ◆ Apply organic manure @ 50 kg/palm.
 - ◆ Apply neem cake @ 5 kg/palm/year.
 - ◆ Drench the basin with 40 litres of 1% Bordeaux mixture to soak soil upto 15 cm depth at quarterly intervals.
 - ◆ Avoid flood irrigation in order to prevent the possible spread of the pathogen through soil.
 - ◆ Isolate the affected palm from the healthy ones by digging a trench of size 1 m deep and 50 cm wide, 1.5 m away from the bole of the infected palm.
 - ◆ Avoid growing legumious crops in and around the garden.

Source: *Package of Practices Recommendations (Adhoc) for Organic Farming : Crops, KAU 2009.*

ORGANIC CERTIFICATION

Organic certification means having the farm and the farmer's methods inspected by an organic certifying group to ensure that they comply with the guidelines on organic farming. Organic certification improves the image of organic agriculture and provides transparency in certification. For gaining consumer's confidence, valid organic certification is an essential pre-requisite for marketing especially in the export market. Generally organic certification involves many standards, inspection and certification.

Certification is a procedure by which a third party gives a written assurance that a product, causes or service is in conformity with certain standards. Organic standards are defined as minimum production practices including storage, transportation, processing, handling, packing and labelling requirements which must be followed for certifying the products as organic.

It is to be recognized that animals are a part of organic farming system since they contribute to nutrient cycles, soil fertility and higher yields. Draught purpose is achieved and the by products are utilized well. Forage crops improve crop rotation and allow for diversification in farming. There are many organic standards on national as well as international levels. Generally standards vary with the country and to sell the products in a particular country, the standards of the importing country are to be followed. Certification is the key to the national organic program. In US since 21st October 2002 it is a federal offence to label any food product as organic unless it has been certified. Certification process focuses on the methods and materials used in production. There are two main requirements:

1. The methods and materials used in production must meet organic standards.
2. There must be clear and ongoing documentation of these methods and materials.

The concept of organic certification is that a third party - an organic certifying agent evaluates producers, processors and handlers to determine whether confirm to an established set of operating guideline called organic standards. Those which confirm are certified by the agent and allowed to use a logo, product statement or certificate to document their product as certified organic. In other words, the certifier vouches for the producer and assures buyers of the organic product's integrity.

CERTIFICATION IN INDIA

The Ministry of Commerce launched NPOP (National Programme for Organic Production) in March 2000, designed to establish national standards for organic products, which could then be sold under the logo "India organic". For the proper implementation of NPOP, NAPP (National Accreditation Policy and Programme) has been formulated with Accreditation Regulations announced in May 2001. These make it mandatory that all certification bodies whether international or foreign operating in the country must be accredited by an Accreditation Agency. There are six accreditation agencies in India:-

1. Agricultural Processed Food Products Export Development Authority (APEDA)
2. Coffee Board
3. Spices Board
4. Coconut Development Board
5. Tea Board
6. Directorate of Cashew and Cocoa Development

APEDA has recognized the following Inspection Certification bodies, all of these are able to certify based on the NPOP:

1. BVQ1 (India) Pvt. Ltd (Mumbai)
2. E cocert (Aurangabad)
3. IMO control private limited (Bangalore)
4. Indian organic certification agency (Indocert, Aluva)
5. International Resources for farmer trade members
6. Lacon quality certification Pvt. Ltd (Theepany, Kerala)
7. National organic certification Association Pvt. Ltd (Pune)
8. One Cert Asia Agri Certification Pvt. Ltd (Jaipur)
9. SGS India Pvt. Ltd (Gurgaon)
10. Skal International (Bangalore)
11. Uttaranchal State Organic Certification Agency (Uttaranchal).

Many of the Indian farmers are small scale, poor farmers who may not be able to afford the cost of certification. Private certification bodies are creating International control systems and participatory guarantee system as alternative means of certification to reduce the cost of certification.

Source: Package of Practices Recommendations (Adhoc) for Organic Farming: Crops, KAU 2009.

DEPARTMENT OF SOIL SURVEY & SOIL CONSERVATION

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The The Department of Soil Survey & Soil Conservation functions for the cause of conservation and management of the soil and water resources of the state. The mandate of the Department is to preserve /restore /revitalize the soil health through the conservation of the two natural resources, Soil and Water for sustainable agricultural production and eco-restoration. The major thrust areas includes undertaking comprehensive soil survey to generate a sound soil resource database for land use planning & execution of various developmental programmes consistent with soil and land characters of the locality, planning and implementing various soil and water conservation and management programmes in the State for ground water recharge, enhancement of agricultural production and safer environment. The Department is implementing various State/Central Sector schemes on Soil Survey & Soil and Water Conservation in all the districts

Vision

To create a soil information system at panchayat level, facilitating preparation of environmentally sustainable soil and land use plan that will help to increase the agricultural production to meet the increasing requirements of the state.

Conservation of soil and water resource of the state for sustainable agricultural production and eco-restoration

Mission

Acquire, classify, interpret and generate soil and land resource data facilitating enhancement of agricultural production through optimum use of the land according to its capability, through watershed development planning and adopting Soil Health Management Programme

Plan, promote, coordinate and oversee the implementation of soil and water conservation programmes on watershed basis with an aim to conserve the valuable resource trinity - soil, water and biomass in a sustainable manner ensuring active participation of all stakeholders.

Functions

- Providing information support on the soil and land resources to all the stakeholders including local bodies for the formulation of local level, watershed level and regional level plans for the implementation of development programs for the optimum use of land resources.

- Technical support to watershed based development programmes by identifying, delineating and prioritizing the watersheds for implementation of development programmes
- Analysis of soil samples which is essential to support the field observations and supplement data for sound interpretation and recommendation for soil resource management.
- To provide consultancy in all matters relating to soil and land development
- Conservation of fertile topsoil for enhanced production and productivity.
- In-situ conservation of rain water to mitigate droughts and moderate flood.
- Bring in improved and sustainable agricultural productivity in identified watershed area by adopting scientific soil and water conservation activities.
- Stabilisation of landslide prone areas of the state by adopting suitable vegetative and mechanical soil conservation interventions.
- Capacity building activities to sensitise the community to involve more creatively in the conservation and development of natural resources.
- Prevention of soil erosion and run off from the catchment with a view to prevent premature siltation of multipurpose reservoirs and also to reduce flood peaks and volume of runoff.
- Developing suitable strategies for rainfed farming through people's participation for potential development of watersheds and promotion of a farming system approach for augmenting the income of farming communities.

These activities are carried out through the district level, block level and regional level offices of Soil Survey & Soil Conservation.

Major Schemes Implemented by the Department

a) *Soil and Water Conservation on Watershed Basis-RIDF*

The Department has been implementing infrastructure development projects under NABARD assisted RIDF with a view to create required infrastructure backup for land development for augmenting agricultural production. Watershed based projects and Projects for Drainage Protection and Flood Control are also taken up under this scheme. Renovation of ponds in Palakkad district is also carried out under the scheme.

a) *Detailed Soil Survey*

The department is engaged in conducting soil and land resource inventory of the whole state at district, panchayats and watershed level through Detailed Soil Survey and generation of soil information system aiming at developing a sound soil resource database for evolving developmental programmes and recommendations for sustainable agriculture development.

b) *Central Soil Health Card scheme*

The Central Sector scheme "Soil Health Card" in Kerala State was being jointly implemented by the Dept. of Agriculture and Dept. of Soil Survey & Soil Conservation, with Dept. of Agriculture being the nodal agency. During the 1st cycle 2015-2017, the department generated and distributed 1.38 lakh Soil Health Cards to farmers in the state. During the ongoing 2nd cycle of the scheme - 2017-18 to 2018-19, it is intended to generate 68.31 lakh Soil Health Cards for distribution to farmers, covering the entire farm holdings in the state.

c) *Microlevel Information System on Soils of Kerala (MISSK)*

Keeping in view of the importance of soil resource data at cadastral scale for the formulation of micro level plans under decentralized support system, the department has launched the **Microlevel**

Information System on Soils of Kerala (MISSK). This involves generation of soil resource data at cadastral level on panchayat basis on a GIS based spatial model for delineating suitable sites for agriculture development along with a land resource action plan for the future development. It will provide plot wise comprehensive information about soil and land resources of an area for planners and best management practices to be adopted on agricultural lands by the farmers at their fingertips. The data so generated has been uploaded to the departmental website www.keralasoils.gov.in.

d) Laboratories

i. Analysis of Soil Samples

The seven Soil Analytical Laboratories and one Mobile soil testing lab under the Department are functioning with the mandate of undertaking detailed chemical analysis of soil samples collected during the course of Soil Survey for soil classification, soil survey interpretation, soil fertility analysis and soil and crop management.

ii. Consultancy Services

The department is providing services to the stakeholders by way of supplying information on the soil and land resources of an area as per requirement of the agencies, undertaking soil analysis for the various parameters as per the request of the user and supplying maps of the area of interest of the user agency on realizing nominal user fee.

e) Stabilisation of Landslide Areas

Department has been implementing scientific soil and water conservation/management projects for the reclamation of the land slide prone/landslide ecosystems with a view to stabilize the area and restore the degraded ecosystem.

f) Protection of Catchment of Reservoir of Water Supply Scheme

With a view of preventing soil erosion and protecting the reservoirs from siltation, the department is undertaking projects to protect the catchment of reservoirs of drinking water supply schemes in Aruvikkara and Sasthamkotta lake. The department intends to extend the scheme to catchments of Peechi, Peruvannamoozhi and Malampuzha dams also.

g) Infrastructure Development Programme to augment Cool Season Vegetable and Temperate fruit Production in Kanthalloor and Vattavada gramapanchayats of Idukki district

The Department in collaboration with State Horticulture Mission is implementing schemes to improve the infrastructure facilities in Kanthalloor and Vattavada gramapanchayats of Idukki district to augment cool season fruit and vegetable production

h) Projects under Rashtriya Krishi Vikas Yojana (RKVY)

The Department is implementing projects under RKVY aimed at mitigation of drought in Wayanad district and a Drainage and Flood protection scheme in Pallasana Panchayat of Palakkad district.

i) Comprehensive project for drought mitigation in Wayanad District

Under the flagship programme of the Haritha Keralam Mission, the Department will be implementing a Comprehensive project for drought mitigation in Mullankolly, Pulpally & Poothadi Panchayats of Wayanad District with the integration of agriculture and allied departments. The project aims to mitigate the water scarcity experienced in the Mullankolly – Pulpally panchayats.

Apart from the regular schemes, the department has also been extending its full technical support for implementing various LSGD programmes, TRDM projects, SCP schemes and WGDP projects in the state. All the activities carried out by the Department are in line with the objectives of Haritha Keralam Mission.

DEPARTMENT OF ANIMAL HUSBANDRY

OBJECTIVES OF THE DEPARTMENT

- To evolve Schemes to retain the traditional livestock farmers in AH Sector.
- Transfer of Technology from labs to field.
- To exploit the production potential of Livestock & Poultry.
- Effective implementation of breeding policy.
- Capacity building of technical and administrative staff.
- IT applications for better office management.
- To conduct Research and Development and survey on problems faced by the farmers, consumers and public.
- To continue supply of good quality germ plasm to farmers.
- To conserve local breeds pertaining to livestock and poultry of our state.
- To implement innovative Schemes like rearing of Malabari Goats, Quail husbandry, Rabbit husbandry, Bull calf rearing, Azolla cultivation etc.
- To implement Hygienic Meat Production by proper Meat Inspection & Modernisation of Slaughter Houses.
- Effective Control of Zoonotic diseases through treatment, Screening of Animals, Vaccination, Creating public awareness through Farm Information Bureau.

BREEDING POLICY OF KERALA

The demand for milk and milk products in Kerala is on the rise and hence it is necessary that an appropriate policy to augment the productivity of the animals be framed. The productivity increase will ensure better returns to the farmer. Also this will keep the number of animals to be supported to meet the demand in control. This in turn will ensure better utilization of the scarce resources of the state.

It is envisaged to achieve the increased production by designing genetically superior animals and is possible by

1. Upgrading genetic potential of the animal including cattle, buffalo and goats.
2. Increasing the proportion of high yielding crossbreds in the population
3. Enhancing the reproductive efficiency of the female population.

Genetic Improvement

Jersey, Holstein Friesian are the two major breeds used for crossbreeding in the state.

Jersey though not the highest producer is a breed well adapted to our climatic and economic conditions. However high yielding Holstein Friesian is used for cross breeding in areas where roughage and other resources are in plenty. Hence Jersey and Holstein Friesian breeds are accepted as exotic donor breeds for the state. It is established beyond doubt that 50% exotic breed is the most appropriate proportion and hence decided to limit it to 50% and not beyond.

The systematic genetic selection programme for the proper implementation of the Breeding policy is being done with the assistance of the Govt of India. The average milk yield increase is recorded as 56.6 Kg. in the first standard lactation. It is also recommended to bring in bulls from other parts of the country for cross breeding and the process is going on. Elimination of genetically poor female population has to be done but not attempted so far due to economic constraints.

The breeding activity in the state being done by two major agencies. The Animal Husbandry Department is the implementing agency and Kerala Livestock Development Board is the supplier of the required genetic inputs and logistics.

LIVESTOCK & POULTRY DEVELOPMENT PROGRAMMES

Animal Husbandry sector plays an important role in the strengthening the economy of the state, especially rural economy. Besides, AH sector is providing employment opportunities to unemployed and underemployed rural poor.

- Cattle Development Schemes
- Goat Rearing Schemes
- Pig Breeding Schemes
- Rabbit Rearing Schemes
- Poultry Development Schemes

CATTLE DEVELOPMENT SCHEMES

The cattle development programmes have been imparted in the state with the aim of increasing milk & meat production. Among them the most important is crossbreeding activities. The Intensive Cattle Development Programmes have been established in the state aiming at this.

Livestock Farms

Cattle farms have been established for rearing high yielding varieties of cows and buffaloes. These farms are functioning as demonstration cum training centres with a view to providing necessary information and technical know-how to the public on improvement of milk production, cattle management, feeding practices etc. These farms impart farm training to livestock inspectors and vocational higher secondary certificate holders. Milk production and fodder production are other fields of activity.

There are five Livestock farms in Kerala under Animal Husbandry Department.

1. Jersey Farm, Vithura
2. District Livestock Farm, Kudappanakunnu
3. Jersey Farm Extension Unit, Chettachal
4. Buffalo Breeding Farm, Kuriottumala
5. Cattle Farm Badiyadukka Kasargod

Jersey Farm, Vithura

This farm was established for producing high yielding cows by cross breeding indigenous breeds with exotic breeds. A goat-rearing unit was also established here on 2003. This farm is under the supervision of a Deputy Director.

District Livestock Farm, Kudappanakunnu

Established in 1953 at Kudappanakunnu, this farm now functions as a multi species multi breed, demonstration farm of the department rearing cattle of Jersey, Holstein Friesian and Brown Swiss cross-breeds; Goats of Malabari breed, Pigs of large white Yorkshire breed, Rabbits of soviet chinchilla, angora, white giant, gey giant breeds and an emu rearing unit are also functioning in the farm.

Jersey Farm Extension Unit, Chettachal

Initially started as an extension unit of the Jersey Farm, Vithura. This farm has a total area of 39.2 hectares, out of which fodder is cultivated in 14 hectares.

Buffalo Breeding Farm, Kuriottumala

This farm was established in 1981 to breed and rear pedigree buffaloes of Surthi and Murrah breeds and to supply sufficient number of buffalo heifers for breeding purpose.

Cattle rearing unit and a goat-rearing unit are also functioning here.

Cattle Farm, Badiyadukka Kasaragod

A new farm was established at Badiyadukka in Kasargode district in 2015 under Animal Husbandry Department for conservation of indigenous breeds of cattle especially varieties like Kasargode dwarf cattle. The farm has a capacity of housing 110 numbers of cattle

GOAT REARING SCHEMES

Goat rearing has a major role in creating self-employment opportunities in rural sector, which will foster the rural economy. The primary objective is to facilitate the conservation of local germplasm. The three Goat Breeding Farms and three goat rearing units under the Animal Husbandry Department are rearing local breeds like Malabari and Attapadi Black etc.

The Agali Goat Farm is maintaining a stock of Attapadi Black. The remaining five farms are engaged in the conservation and propagation of the Malabari breed.

- Goat Breeding Farm, Parassala , Thiruvananthapuram
- Goat Breeding Farm, Attapadi, Palakkad
- Goat Breeding Farm, Kommeri, Kannur
- Goat Rearing Unit at District Livestock Farm, Thiruvananthapuram
- Goat Rearing Unit at Jersey Farm Vithura, Thiruvananthapuram
- Goat Rearing Unit at Buffalo Breeding Farm, Kuriottumala, Kollam

Goat Farm, Attappadi, Palakkad

Government Goat Farm at Attappadi has been established with a view to help the tribal families of Attappadi to rear goats and sheep as a subsidiary occupation. This Goat Farm is maintaining a stock of Attapadi Black.

Goat Farm, Kommeri, Kannur

The farms were established with a view to produce and propagate Malabari goats, the best suited breed to the agro-climatic conditions prevailing in the state.

Goat Farm, Parasuvackal, Parassala, Thiruvananthapuram

The objectives of the farm are to preserve rear and propagate Malabari Goats and thus stimulate farmers to take up goat rearing as a source of income for livelihood and also to supply good quality fodder to farmers on nominal rate.

PIG BREEDING SCHEMES

Piggery development activities aim to popularize rearing of improved varieties of pigs among the farmers and to ensure the availability of adequate number of piglings for distribution under various schemes, production and supply of good quality pork etc. These activities are conducted under the guidance and co-ordination of the Swine Husbandry office functioning at Aluva.

The pig-breeding farm at Kappad, Kottayam and six pig breeding units in the state functions as demonstration centers and impart scientific training on pig rearing to farmers.

- Pig Farm, Kappad, Kottayam
- Pig Breeding Unit, Parassala, Thiruvananthapuram
- Pig Breeding Unit, Thalayolaparampu, Kottayam

- Pig Breeding Unit, Kolani, Idukki
- Pig Breeding Unit, Angamaly, Ernakulam
- Pig Breeding Unit, Kunnankulam, Trissur
- Pig Breeding Unit, Mundayad, Kannur

RABBIT REARING SCHEMES

These units were established to popularize rabbit rearing , to improve the quality of rabbits reared for meat purpose and to preserve different varieties and breeds of rabbits and Exotic broiler rabbit breeds like Soviet Chinchilla, White Giant, Grey Giant, Newzeland white, Angora(wool type) and Silver Fox are reared in the 3 rabbit rearing units of department.

- Rabbit Rearing Unit at District Livestock Farm, Kudappanakunnu.
- Rabbit Rearing Unit at Buffalo Breeding Farm, Kuriottumala
- Rabbit Rearing Unit at Regional Poultry Farm, Chathamangalam.

POULTRY DEVELOPMENT SCHEMES

Poultry Farms under AHD

The Poultry Development Schemes in the state aims at increasing the egg production; and distribution of chicks and good quality poultry meat; imparting training on scientific poultry rearing and management; encouraging unemployed youth and members of weaker sections of society to take up poultry rearing and gain self employment; assisting women to start backyard poultry unit etc. There are seven regional poultry farms, two district poultry farms, one duck farm, one turkey farm, one central hatchery, one quail rearing unit and an intensive poultry development block under the department to carry out the development activities.

1. Central Hatchery, Chengannur.
2. Regional Poultry Farm, Kudappanakunnu, Thiruvananthapuram
3. Regional Poultry Farm, Kureeppuzha, Kollam (Turkey Farm)
4. Regional Poultry Farm, Manarcadu, Kottayam.
5. Regional Poultry Farm, Koovappady, Ernakulam.
6. Regional Poultry Farm, Malampuzha, Palakkad.
7. Regional Poultry Farm, Chathamangalam, Kozhikode.
8. Regional Poultry Farm, Mundayad, Kannur.
9. District Poultry Farm, Athavanad, Malappuram
10. District Poultry Farm, Kolani, Idukki.
11. Duck Farm, Niranam.

Central Hatchery, Chengannur

The Central Hatchery has been established at Chengannur in Alappuzha District during 1961-62 for organizing the Poultry sector and for providing better facilities for the poultry farmers. This institution supplies commercial layer chicks, table eggs, poultry, poultry equipments etc. according to the needs of the public.

Units functioning at Central Hatchery are:

- **Hatchery** – Established to provide to meet the demand for good quality chicks and eggs in the sector. Production Manager in the cadre of Deputy Director is the head of the office complex. The hatchery has a setter capacity of 100000 -egg and Hatcher capacity of 37000 eggs.
- **Poultry Farm for parent stock** – Rearing parent stock for production of commercial chicks, and eggs. Gramapriya, Graamasree , Vanaraja, Athulya are some of the Parent stocks. Australorps males are also maintained here for production of Gramalakshmi chicks by

crossing them with Athulya females. About 7.5 lakhs commercial chicks and 8.2 lakhs eggs were produced during the year 2011-12. The female chicks are being supplied to approved egger nurseries and from there to the farmers at the age after 45 days.

- **Feed Compounding Factory** - The feed compounding factory was established at Central Hatchery in the year 1963 in order to manufacture 'ready to feed' balanced poultry feed for the Central Hatchery farm as well as for other government poultry farms in the state.

- **Training Institute** - To impart scientific training in livestock and poultry rearing and breeding to farmers, para-veterinary officers and unemployed youths. Training for livestock inspectors are also conducted here. Short term training programmes in backyard poultry rearing, broiler farming, quail farming, rabbit rearing, cattle rearing, goat rearing etc. are also conducted here. A demonstration unit for Indian and Exotic breeds of poultry started functioning in the year 2011.

- **Feed Testing Laboratory** - To analyze the feed ingredients and various types of feed manufactured by the departmental institutions and there by to ensure the quality of feed with reference to nutritive value. This laboratory also conducts analysis of proximate principles on any feed samples from the field.

- **Chick Sexing School** - to impart scientific training in chick sexing to selected persons. There is a six months course of Chick sexing and Hatchery management.

- **Mobile Veterinary Hospital** - for the prevention and treatment of diseases among the birds of the hatchery. Moreover, this hospital provides treatment for other livestock and birds of farmers. Artificial Insemination facility for cattle and buffalo is also available here.

- **Quail unit** – started functioning in 1984 with an aim to promote quail rearing for egg and meat. Day-old chicks and quails at the age of 22-35 days are supplied for the Department schemes and to the public. At present 2500 parent stock are there.

- **Workshop for poultry equipments** – This unit manufactures various types of poultry equipments such as cages, brooders, feeders, waterers etc.

Turkey Farm, Kureepuzha, Kollam

The Turkey Farm at Kureepuzha, Kollam is the only such farm under the department. It functions as a demonstration and propagation unit and sells poults and eggs for hatching and table purposes.

Duck Farm

The one and only duck farm under the department for the conservation and propagation of indigenous breeds. Indigenous breeds like "Chara" and "Chempally" are given due consideration. Exotic duck breeds like Vigova Super and Khaki Campbell are also maintained in this farm. The farm is poised for large-scale development into a centre of excellence in duck farming.

Quail Production Units

The three Quail Production Units under the department rear quail parent stock for supplying good quality hatching and table eggs. They also impart scientific training to farmers in quail rearing.

The units under the Department are

- Quail Production Unit at Central Hatchery, Chengannur
- Quail Production Unit at Regional Poultry Farm, Chathamangalam
- Quail Production Unit at District Livestock Farm, Kudappanakkunnu

Emu Rearing

The District Livestock Farm, Kudappanakkunnu has recently started rearing emu birds on a commercial basis. At present this emu unit functions as a demonstration cum training centre for imparting information and technical know-how to the public in emu rearing.

FODDER DEVELOPMENT

Agricultural sections of all farms are engaged in fodder production to meet the requirement of the farms and function as demonstration units for farmers, trainees and entrepreneurs and also retail selling outlets of fodder slips to farmers. The department intends to act as a facilitator to grow fodder in all available land owned by the government/local bodies so as to reduce the production cost of the farm produce. As non-availability of good quality fodder in required quantity is the major constraint in dairy production in the state, fodder production schemes are being given top priority in large and small holdings.

I T DEVELOPMENT

The Department of Animal Husbandry was one among the first Government Departments to have started computerization in the state. The website of the Animal husbandry Department is www.ahd.kerala.gov.in hosted by CDIT in the content management frame work. This website provides more Government to Citizen and Government to Government facilities as per the Kerala State IT policies. Apart from the details of the department, this website also boasts updated version of all orders, circulars, transfer and postings etc in the Department of Animal Husbandry.

The web server of the department has been shifted and hosted at State Data Centre of Government of Kerala. The department will be linked to the Kerala State Wide Area Net work (KSWAN) connectivity providing free internet facility to the connected offices.

Due to the fast technical advancement in recent years, AHEAD software became obsolete and is unable to cater to all the requirements of the department. the IT Division of the department designed and developed following software systems for monitoring the activities of the department in real time.

1. Farmers Registration software
2. Plan Scheme Monitoring software
3. Artificial Insemination Monitoring software
4. Communication Portal software
5. Disaster Compensation Management software
6. Stock and Stores Management software
7. Training Management software
8. Vehicle Management software
9. Insurance Management software
10. GIS Based Disease Mapping software with IIITM-K
11. Vaccination Monitoring software for ADCP

ANIMAL DISEASE CONTROL PROJECT(GOREKSHA)

The State was facing great economic loss due to reduction in milk yield and often death of valuable dairy animals, mainly due to Foot and Mouth Disease . Export of animal products also was restricted as Kerala is endemic for FMD.Under these circumstances Government of Kerala decided to have a disease control project .As such a joint venture was established between NDDDB and the Government of Kerala to implement the Animal Disease Control Project- "GORAKSHA", in 2004. A Project Management Committee was constituted with the Agricultural Production Commissioner

as its chairman for the periodical review of the Project. State and district level offices function to execute the programmes. Doorstep service for preventive vaccination against FMD to all susceptible Animal population is carried out twice in an year and could control the disease to a great extent.

Animal Disease Control Project is currently implementing the ASCAD (Assistance to State for Control of Animal Diseases) Project of the Government of India, under which vaccinations are conducted against various diseases like Anthrax, Haemorrhagic Septicaemia Ranikhet Disease, Duck Plague, Duck Pasteurella, PPR in goats, Swine Fever for Pigs, ,, Black Quarter etc throughout the state. RFK-VC is also implemented through this unit. A 24 hour unit, SADEC (State Animal Disease Emergency Control) unit for receiving reports about occurrence of any disease in the state for immediate action is also established.

FARMERS' REGISTRATION

This programme envisages to make a database of all farmers in this sector. The data will be useful for formulating future programmes, to ascertain the assistance required for the farmers and statistical analysis of data for various purposes. As the state is moving to limit the various subsidies through Direct Benefit Transfer, Farmers' registration is going to be essential for the implementation of various state and central schemes. So far about 5 lakhs farmers are registered through the local veterinary institution. Mobile numbers of farmers thus collected shall be used for all types of Information and Communication Technology delivery. Farmers can register their name in the nearest Veterinary Dispensary/Hospital.

SPECIAL LIVESTOCK BREEDING PROGRAMME (SLBP)

SLBP is a beneficiary oriented scheme, implemented by the Department of Animal Husbandry from 1976 onwards, to increase the productivity in dairy sector. From 1997 onwards the "Rearing of Calves" programme is being implemented through local self government institutions in all the 14 districts, with the active participation of Milk producers co-operative societies. Selected beneficiaries will be eligible for a total subsidy of 50% on all items of expenditure.

Basic Outline of the Scheme:-

- Female crossbred calves/ Buffalo calves of 4-6 months of age are selected.
- Selected calves will be given feed at 50% subsidised rate for 30 months or till subsidy expires, whichever is earlier.
- Insurance coverage to the calves till 32 months of age at 50% premium rate.
- Beneficiaries will be given training in scientific calf rearing.
- Dewormers, vitamins and mineral mixtures will be supplied.
- Breeding status will be assessed at 15-18 months of age.

Various Schemes Under Rearing of Calves.

- Calf Adoption Programme (CAP): 25 % subsidy from grama panchayat , 25% from state fund
- Surabhi Raksha: 50% subsidy from Central
- Govardhini: 50% subsidy from State fund
- RKVY : 50% subsidy from Central fund

Total subsidy amount: 12500/-

AVIAN INFLUENZA (BIRD FLU) CONTROL STRATEGIES

Avian Influenza or Bird Flu is a highly contagious disease of domestic poultry caused by the Influenza Type A virus. Depending on the virulence of the virus the disease may be Low Pathogenic Avian Influenza (LPAI) causing low mortality only in poultry or Highly Pathogenic Avian Influenza (HPAI) with 100% mortality and capable of infecting humans also. Wild birds and migratory water fowls are the natural reservoirs of the virus. H5 and H7 subtypes of the virus are highly pathogenic. The disease is usually manifested with odema of head and neck, cyanosis of comb and wattles, nervous symptoms, greenish diarrhoea, corneal opacity, respiratory distress and finally death. The highly pathogenic variant has caused outbreaks in 2014 November in Kuttanad region in ducks and in 2015 February in Turkeys at Kollam and again in ducks in 2016 October in Kuttanad.

In the event of an outbreak of HPAI, stringent control and containment measures like culling and disposal of entire birds within 1km radius of the epicentre either by burning/burial, thorough disinfection and sanitization of the area along with restriction of bird movement within 10 km radius and post operation surveillance in affected areas are essential. Fresh stock can be introduced in the area only after 3 months of rigorous and periodical post operation surveillance. Since HPAI V is capable of mutation which may lead to a pandemic in human being, constant routine surveillance in domestic and migratory birds is carried out by Animal Husbandry Department in collaboration with Forest Department during migratory season- September to March.

19th Quinquennial Livestock Census Kerala 2012

Total Livestock (in thousands)

| Category | 2012 | |
|-------------------------|--------|-----------------------------|
| Cattle | | |
| Exotic/ Crossbred | | |
| Male | 13621 | |
| Female | 111538 | |
| Total Exotic/ Crossbred | 125158 | |
| Indigenous | | |
| Male | 1248 | Male 21987 |
| Female | 6457 | Female 121103 |
| Total Indigenous | 7705 | Total Bovine 143090 |
| Total Cattle | 132863 | |
| Buffalo | | |
| Male | 7118 | Sheep |
| Female | 3109 | Exotic/ Crossbred |
| Total Buffalo | 10227 | Male 022 |
| | | Female 023 |
| | | Total Exotic/ Crossbred 045 |
| | | Indigenous |
| Yaks | | Male 67 |
| Male | 00 | Female 33 |
| Female | 00 | Total indigenous 100 |
| Total Yaks | 00 | Total Sheep 145 |
| | | Goat |
| Mithuns | | Male 29532 |
| Male | 00 | Female 95076 |
| Female | 000 | Total Goat 124608 |
| Total Mithuns | 000 | |
| Bovine | | |

| | | | |
|----------------------------|---------------|---|---------|
| Horses & Ponies | | Dogs | |
| Male | 15 | Male | 71790 |
| Female | 7 | Female | 20546 |
| Total Horses & Ponies | 22 | Total Dogs | 92336 |
| Category | 2012 | Rabbit | |
| Mules | | Male | 7625 |
| Total Mules | 23 | Female | 15430 |
| Donkey | | Total Rabbits | 23055 |
| Male | 29 | Elephants | |
| Female | 22 | Male | 61 |
| Total Donkey | 50 | Female | 10 |
| Camels | | Total Elephants | 72 |
| Male | 00 | Poultry | |
| Female | 00 | Fowls | 2171114 |
| Total Camels | 1 | Ducks | 170922 |
| Pigs | | Turkey and Other Poultry | 86157 |
| Exotic/ Crossbred | | Total Poultry | 2428193 |
| Male | 2166 | | |
| Female | 2916 | #Excluding Stray Cattle and Stray Dogs | |
| Total Exotic/ Crossbred | 5082 | Note: Figure 'zero' means either 'nil' or negligible. | |
| Indigenous | | | |
| Male | 240 | | |
| Female | 256 | | |
| Total Indigenous | 497 | | |
| Total Pigs | 5578 | | |
| Total Livestock | 273516 | | |

Total Number of Livestock and Poultry*- Districtwise

State: KERALA

| SNo. | District | Livestock | Poultry | Total |
|------|--------------------|----------------|-----------------|-----------------|
| 1 | Thiruvananthapuram | 268870 | 1743232 | 2012102 |
| 2 | Kollam | 220402 | 1070243 | 1290645 |
| 3 | Pathanamthitta | 119119 | 643571 | 762690 |
| 4 | Alappuzha | 137652 | 1532185 | 1669837 |
| 5 | Kottayam | 189875 | 1509805 | 1699680 |
| 6 | Idukki | 206222 | 527015 | 733237 |
| 7 | Ernakulam | 248722 | 4270568 | 4519290 |
| 8 | Thrissur | 256826 | 3185833 | 3442659 |
| 9 | Palakkad | 293467 | 3512994 | 3806461 |
| 10 | Malappuram | 239112 | 3276239 | 3515351 |
| 11 | Kozhikode | 155899 | 1122398 | 1278297 |
| 12 | Wayanad | 116603 | 404289 | 520892 |
| 13 | Kannur | 161706 | 798259 | 959965 |
| 14 | Kasaragod | 120687 | 685297 | 805984 |
| | Total | 2735162 | 24281928 | 27017090 |

*Total Livestock covers Cattle, Buffalo, Sheep, Goat, Pig, Horses& Ponies, Mules, Donkeys, Camels, Mithun and Yak and total poultry include total birds in the poultry farms and hatcheries.

PRODUCTION OF MILK & EGG

| Year | Milk (000 MT) | Egg (lakh nos.) |
|---------|---------------|-----------------|
| 2010-11 | 2643.34 | 16857.71 |
| 2011-12 | 2716.84 | 17048.65 |
| 2012-13 | 2791.61 | 22375.57 |
| 2013-14 | 2655.00 | 24768.77 |
| 2014-15 | 2710.00 | 25038.00 |
| 2015-16 | 2649.72 | 24424.82 |
| 2016-17 | 2520.29 | 23443.83 |

PER CAPITA PER DAY AVAILABILITY OF MILK (Estimated)

| Year | Cow Milk(g) | Buffalo Milk(g) | Goat Milk(g) | Total Milk(g) | Projected human Population(lakhs) |
|---------|-------------|-----------------|--------------|---------------|-----------------------------------|
| 2011-12 | 212 | 2 | 9 | 223 | 334 (actual) |
| 2012-13 | 216 | 3 | 9 | 228 | 336 |
| 2013-14 | 213 | 5 | 9 | 227 | 337 |
| 2014-15 | 205 | 5 | 9 | 219 | 338 |
| 2015-16 | 202 | 1 | 10 | 219 | 340 |
| 2016-17 | 191 | 1 | 10 | 202 | 342 |

PER CAPITA AVAILABILITY & CONSUMPTION OF EGG PER YEAR (Estimated)

| Year | Projected human population (lakhs) | Total Egg Production (Lakh nos.) | Per Capita Availability per year (Nos.) | Import (Lakh nos.) | Export (Lakh nos.) | Total availability (Lakh nos.) | Per Capita consumption per year |
|---------|------------------------------------|----------------------------------|---|--------------------|--------------------|--------------------------------|---------------------------------|
| 2010-11 | 333 | 16857.71 | 50 | 10990.15 | 16.37 | 27831.49 | 84 |
| 2011-12 | 334(actual) | 17048.65 | 51 | 9019.47 | 9.17 | 26058.95 | 78 |
| 2012-13 | 336 | 22375.57 | 66 | 9042.32 | 5.21 | 31412.68 | 93 |
| 2013-14 | 337 | 24768.77 | 73 | 14319.45 | 5.41 | 39082.81 | 116 |
| 2014-15 | 338 | 25038.00 | 74 | 13731.00 | 7.62 | 38760.00 | 114.49 |
| 2015-16 | 340 | 24424.82 | 72 | 14566.00 | 5.39 | 38986.00 | 114.6 |
| 2016-17 | 342 | 23443.83 | 69 | 20797.55 | 5.28 | 44246.66 | 129.4 |

PER CAPITA PER DAY AVAILABILITY OF MEAT (Estimated)

| Year | Projected human population (lakhs) | Production of Meat (Authorised Sector only) (MT) | | Per capita availability per day (g) # | | |
|---------|------------------------------------|--|---------|---------------------------------------|---------|-------|
| | | Animal | Poultry | Animal | Poultry | Total |
| 2011-12 | 334 (actual) | 241.596 | 183.611 | 20 | 15 | 35 |
| 2012-13 | 336 | 272.15 | 128.842 | 22 | 11 | 33 |
| 2013-14 | 337 | 264.231 | 151.398 | 21 | 12 | 33 |
| 2014-15 | 338 | 282.23 | 163.6 | 22 | 13 | 35 |
| 2015-16 | 340 | 291.02 | 175.02 | 23 | 14 | 37 |
| 2016-17 | 342 | 280.083 | 188.758 | 22 | 15 | 37 |

The production figure 2011-12 onwards include unauthorized sectors also.

CALVING INDEX FOR COWS

| Date of Service | | | | | | | | | | | |
|-----------------|------|------|------|------|------------------|------|------|------|------|------|------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| | | | | | Date of delivery | | | | | | |
| 7 | 7 | 5 | 5 | 4 | 4 | 6 | 7 | 7 | 7 | 7 | 6 |
| Oct. | Nov. | Dec | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. |

Note: The number of days added to both dates will give the expected delivery date. eg. Date of service if 10th Jan. expected delivery date would be 17th of October.

FEEDING SCHEDULE OF ANIMALS

I. COWS

(i) Milking cows : (Approximate body weight - 250 kg.)

| | When grass is available in plenty | | When pady straw is the major roughage | | |
|------------------|--|-------------------|--|-------------------|-------------|
| | Concentrate Mixture (kg.) | Green grass (kg.) | Concentrate Mixture (kg.) | Green grass (kg.) | Straw (kg.) |
| Dry Cows | | 25-30 | 1.25 | 5.0 | 5-6 |
| Milking Animals | 1-1.5kg for every 2.5 to 3 kg. Milk | 30 | 1.25 + 1kg for every 2.5 to 3 kg. of Milk | 5.0 | 5-6 |
| Pregnant animals | Production allowance 1 kg to 1.5kg from 6th month of pregnancy | 25-30 | Maintenance(5.0kg)+ Production allowance 1kg to 1.5kg. from 6th month of pregnancy | 5.0 | 5-6 |

For every additional 50 Kg. body weight 250 g of concentrate mixture and 0.5 to 1 kg straw may be fed extra, or 3 to 5 kg green grass (green fodder) should be offered 3 to 4 times a day.

(ii) CALVES (upto 6 months)

| | <i>Body weight (kg)</i> | <i>Qty. of milk (kg)</i> | <i>Qty. of calf starter (g)</i> | <i>Green grass (kg)</i> |
|-------------------|-------------------------|--------------------------|---------------------------------|-------------------------|
| 4 days to 4 weeks | 25 | 2.5 | Small qty. | Small qty. |
| 4-6 weeks | 30 | 3.0 | 50 to 100 | -do- |
| 6-8 weeks | 35 | 2.5 | 100 to 250 | -do- |
| 8-10 weeks | 40 | 2.0 | 250 to 350 | -do- |
| 10-12 weeks | 45 | 1.5 | 350 to 500 | 1.00 |
| 12-16 weeks | 55 | | 500 to 750 | 1-2 |
| 16-20 weeks | 65 | | 750 to 1000 | 2-3 |
| 20-24 weeks | 75 | | 1000 to 1250 | 3-5 |

Calf starter is a concentrate mixture containing all nutrients in proper proportions, used as substitute for whole milk in calf ration.

The quantities of feed shown above have been calculated for animals gaining weight on an average of 300-400 g per day.

(iii) FOR GROWING ANIMALS (from 6 months onwards)

| <i>Age (Months)</i> | <i>Appro. body weight (kg)</i> | <i>Concentrate mixture (kg)</i> | <i>Grass (kg)</i> |
|---------------------|--------------------------------|---------------------------------|-------------------|
| 6 to 9 months | 70 to 100 | 1.25 - 1.75 | 5 - 10 |
| 9 to 15 months | 100 to 150 | 1.75 - 2.25 | 10 - 15 |
| 15 to 20 months | 150 to 200 | 2.25 to 2.50 | 15 - 20 |
| above 20 months | 200 to 300 | 2.50 - 2.75 | 15 - 20 |

II. BUFFALOES

General principles of feeding buffaloes are almost similar to those recommended for dairy cattle. Buffaloes have the capacity to consume more roughage which they can digest better than dairy cattle. The fat percentage of buffalo milk is higher and hence buffaloes must be given more feed per unit of milk production. Milking animals must be given production allowance of one kg concentrate mixture (0.14 to 0.16 kg DCP and 0.7 kg TDN) for every 2 kg of milk produced over and above the maintenance allowances.

III. GOATS

(i) Growing Animals (from 6 months onwards)

| Category of goat | Approximate body weight (kg) | Quantity to be fed per day | |
|-----------------------|------------------------------|----------------------------|-------------------|
| | | Concentrate (g) | Green fodder (kg) |
| Growing (6-12 months) | 15-20 | 300-400 | 1-2 |
| Adult goats | 25-30 | 200-300 | 2-3 |
| Breeding bucks | 30-40 | 400-500 | 3-5 |

(ii) Kids of different age

| Age of the kid | Approximate body weight (kg) | Quantity of milk to be given (g) | Quantity of kid starter to be given (g) | Quantity of green fodder to be given (g) |
|------------------|------------------------------|----------------------------------|---|--|
| Birth to 4 days | 1.5-2.0 | Colostrum | - | - |
| 5-30 days | 2-3 | 300-500 | Small quantity | Small Qty. |
| 30-60 days | 3.0-5.0 | 400-500 | 50-100 | Small Qty. |
| 60-90 days | 5.0-7.5 | 350-400 | 100-150 | 250-500 |
| 90-120 days | 7.5-10.0 | - | 200-250 | 500-750 |
| 5th & 6th months | 10.0-15.0 | - | 250-300 | 750-1000 |

IV. DOGS

Pups are weaned from the dam at 6-8 weeks of age. After weaning, a combination of cow's milk (250 ml), egg yolk (one) and glucose (half teaspoon) fed at regular intervals would be a good substitute for the dam's milk. Goat's milk is good for pups.

For two to three days after weaning, the pups will be crying, may be because of the separation from its dam. This crying should not be misunderstood for hunger and fed with milk and biscuits as often done resulting in indigestion.

Feeding schedule

| | | |
|------------|---|---------|
| 1-2 months | - | 6 times |
| 2-3 months | - | 5 times |
| 3-4 months | - | 4 times |
| 4-5 months | - | 3 times |
| 5-7 months | - | 2 times |

V. CATS

Cats are carnivorous in nature. Feed should be rich in protein of animal or fish origin. Either raw or cooked meat can be fed. Sometimes there may be digestive trouble. Also provide vegetables, green grass etc. to avoid digestive trouble. Green grass helps to expel fur balls from the stomach. Grass will be having vitamins and minerals especially trace minerals and so grass feeding is advantageous. Cat should be given plenty of drinking water.

Feeding frequency :

| | | |
|------------|---|-------------|
| 2-3 months | - | 4 meals/day |
| 3-5 months | - | 3 meals/day |
| 6-8 months | - | 2 meals/day |
| Adult | - | 2 meals/day |

Feeding Schedule of Poultry

| Age in Weeks | Feed qty. (gm/ day) |
|--------------|---------------------|
| 1 | 8-10 |
| 2 | 15-18 |
| 3 | 22-23 |
| 4 | 30-35 |
| 5 | 38-41 |
| 6 | 45-50 |
| 7 | 50-53 |
| 8 | 53-55 |
| 9 | 58-61 |
| 10 | 65-69 |
| 11 | 69-72 |
| 12 | 72-75 |
| 13 | 75-80 |
| 14 | 78-80 |
| 15 | 80-82 |
| 16 | 82-85 |
| 17 | 85-90 |
| 18 | 90-95 |
| 19 | 95-100 |
| 20 | 100-105 |
| 21 | 105-110 |
| 22 | 110-115 |
| Above 22 | 115-130 |

Feeding Schedule of Ducks- Vigova

| Age in Weeks | Feed | gm/duck/day |
|--------------|----------|----------------|
| 1 | Duckling | 20 |
| 2 | " | 40 |
| 3 | " | 60 |
| 4 | " | 105 |
| 5 | " | 130 |
| 6 | " | 150 |
| 7 | " | 185 |
| 8 | " | 189 |
| 9-20 | Grower | 200 gm/day |
| 21 and above | Layer | 210-240 gm/day |

VI. BROILER RATION

| Ingredient | Percentage inclusion | |
|---------------------------|----------------------|----------------------|
| | Starter (0-5 weeks) | Finisher (6-7 weeks) |
| Yellow Maize | 47 | 54.5 |
| Rice polish | 8 | 10 |
| Soyabean meal | 17.5 | 14 |
| Groundnut cake (expeller) | 15 | 11 |
| Unsalted dried fish | 10 | 8 |
| Mineral mixture | 2.0 | 2.0 |
| Salt | 0.5 | 0.5 |
| | 100.00 | 100.00 |
| For 100 kg of feed add: | | |
| Vitamin A | 6,00,000 IU | 6,00,000 IU |
| Vitamin B ₂ | 600 mg | 600 mg |
| Vitamin D ₃ | 60,000 ICU | 60,000 ICU |
| Coccidiostat | 50 g | 50 g |
| Lysine | 50 g | 50 g |

Alternatively commercial broiler starter and finisher rations prepared by reputed feed manufacturers can be given.

VII. DUCK LAYER RATION

| Sl.No. | Ingredients | Per cent |
|--------|-------------------|---------------|
| 1 | Yellow maize | 42 |
| 2 | Ricepolish | 20 |
| 3 | Gingelly oil cake | 7 |
| 4 | Soyabean meal | 14 |
| 5 | Dried fish | 10 |
| 6 | Oyester shell | 5 |
| 7 | Mineral Mixture | 1.75 |
| 8 | Salt | 0.25 |
| | | 100.00 |

For every 100kg add vitamin mixture (Vit.A 600,000 IU, Vit.B₂ 600mg and Vit.D₃ 60,000 ICU and nicotinic acid 5g.)

VIII. RABBITS

| Item | Approximate body weight | Quantity to be fed per day | |
|------------------|-------------------------|----------------------------|-------------|
| | | Concentrates | Green grass |
| Bucks | 4-5 kg | 150 g | 600 g |
| Does | 4-5 kg | 150 g | 600 g |
| Lactating does | - | 200 g | 700 g |
| Weaner (6 weeks) | 600-700 g | 50 g | 200 g |

VACCINATION SCHEDULE FOR ANIMALS

I. LIVESTOCK

| <i>Disease</i> | <i>Type of Vaccine</i> | <i>Dose and Route</i> | <i>Remarks</i> |
|--------------------------|---|---|--|
| Anthrax | Anthrax Spore Vaccine I.A.H & V.B., Palode | Cattle 2 ml S/C, Sheep & Goat 1 ml S/C | Annual revaccination in endemic areas |
| Black Quarter | BQ Vaccine, I.A.H & V. B., Palode | Cattle 5-10 ml S/C, Sheep & Goat 2-3 ml S/C | Annual revaccination in endemic areas |
| Haemorrhagic septicaemia | HS Broth Vaccine, I.A.H & V.B., Palode HS Oil adjuvant Vaccine, IAH & VB, Palode | Cattle 5-10 ml S/C 2 ml I/M for animals upto 140 kg body wt., 3 ml for animals above 140 kg body wt. | Immunity is only for 2-3 months Immunity for 1 year, annual revaccination in endemic areas. |
| Foot and Mouth Disease | | Young Animals Primary dose Booster dose Annual Vaccination Adult animals First dose | Schedule Between 3&4 months. After 3 months of primary dose 0 days followed by twice in a year |

II. DOGS

| Disease | Primary vaccination | Booster | Repeat |
|-------------------------------|---------------------|----------|--------|
| Canine Parvo viral infection | 6 week | 11 week | Annual |
| Canine Distemper | 8 week | 11 week | Annual |
| Infectious Canine Hepatitis | 8 week | 11 week | Annual |
| Canine Leptospirosis | 8 week | 11 week | Annual |
| Rabies | 3 months | One year | Annual |
| Canine Corona viral infection | 9 week | --- | Annual |

Rabies Control Programmes

Rabies eradication is taken up as one of the activities of the Animal Husbandry Department from the very early stage. Recently considering the huge menace of the disease in view of its economic and public health importance, the department has intensified the Rabies Eradication Programmes by setting up a special cell in the Directorate. Various programmes are arranged to enlighten the public on the importance of the control of rabies. Vaccination camps are arranged throughout the state seeking assistance of local bodies and the non-governmental agencies like Rotary Club, Lions Club etc.

Animal Birth Control Programme (ABC)

ABC programme is aimed at controlling stray dog populations and for protection against Rabies. It is carried out by the local self governments with the help and involvement of animal husbandary department and NGOs'.

Anti Rabic Vaccinations done in Kerala 2011-2014

| Year | Post exposure vaccinations | | | | | Total | Prophylactic vaccination in Dogs |
|---------|----------------------------|---------|------|------|--------|-------|----------------------------------|
| | Cattle | Buffalo | Goat | Dog | Others | | |
| 2011-12 | 2374 | 70 | 4343 | 3569 | 116 | 10472 | 1,67,794 |
| 2012-13 | 1517 | 55 | 5013 | 3636 | 127 | 10348 | 1,46,258 |
| 2013-14 | 2118 | 104 | 6207 | 4821 | 231 | 13481 | 1,53,407 |

POULTRY- LAYER

| | Age | Disease | Vaccine | Route |
|----|----------------------|---------|-----------------------|----------------|
| 1. | 1 day | Marek's | HVT vaccine | I/M |
| 2. | 5-7 days | RD | Lasota/F | Occulonasal |
| 3. | 10-14 days | IBD | IBD Live | Drinking water |
| 4. | 24-28 days | IBD | IBD Live | Drinking water |
| 5. | 8 th week | RD | R ₂ B/RDVK | S/C |
| 6. | 16-18 week | RD | Killed/Live | S/C |

- i. It is advisable to administer Fowl pox vaccine at 6 weeks of age in endemic areas.
- ii. EDS vaccine is advised at 16-18 weeks of age

Source of Vaccine

1. Institute of Animal Health and Veterinary Biologicals, Palode, Thiruvananthapuram.
2. I.V.P.M, Ranipet, Tamil Nadu.
3. I.V.R.I Izatnagar, Bareilly, U.P.

Poultry vaccines are also manufactured by private sector companies.

Give anti-stress medicaments to combat vaccination stress in consultation with a veterinarian.

DEWORMING SCHEDULE

I. BIRDS

Birds should be dewormed starting from one week prior to R₂B/RDVK vaccination and repeated at 3 week intervals so as to give a total of 4 dewormings before housing at 18 weeks of age. Piperazine compounds, Albendazole, Mebendazole etc. can be used against round worms. Niclosamide, Praziquintel, Albendazole can be used against tape worms.

II. CATTLE

First dose is given at 2-4 weeks with Piperazine @ 150 mg/kg bwt. Repeat at 6th week. From 10 weeks upto 6 months of age, any broad spectrum anthelmintic can be used at monthly intervals. After 6 months of age, on examination of the dung sample, the animal shall be dewormed according to necessity.

- Note:
1. If the animals are suffering from cestodes/trematodes drugs concerned have to be given after proper diagnosis.
 2. During pregnancy, dosing with any broad spectrum anthelmintic helps in reducing parasitic infestation in young calves as well as increasing the milk production in that lactation.

Nutritive value of different types of meat

| Species | Water % | Protein % | Fat % | Ash % | Cal/100 g | Cholesterol mg/100g |
|---------|---------|-----------|-------|-------|-----------|---------------------|
| Beef | 66.6 | 20.2 | 12.3 | 0.8 | 197 | 60-80 |
| Pork | 56.5 | 15.9 | 26.6 | 1.2 | 308 | 60-80 |
| Mutton | 64.8 | 17.8 | 16.2 | 1.2 | 222 | 60-80 |
| Chicken | 67.7 | 20.0 | 6-15 | 0.9 | 202 | 60-80 |
| Rabbit | 72.9 | 20.8 | 1-2 | 0.9 | 199 | 50 |

Incubation period, age at maturity and average egg production in birds

| Type of bird | Incubation period (days) | Age at maturity (months) | No. of Eggs (Annually) |
|--------------|--------------------------|--------------------------|---------------------------------------|
| Fowl | 21 | 6 | 150-200 |
| Duck | 28 | 7 | 200-300 |
| Turkey | 28 | 10-11 | 25-70 |
| Guinea fowl | 28 | 9 | 50 |
| Goose | 30 | 10-11 | 24-50 |
| Pea Fowl | 18 | 12 | 15 |
| Pigeon | 18 | 9 | 2 in a brood (2-3 broods annually) |

DEPARTMENT OF DAIRY DEVELOPMENT

The Department of dairy development in Kerala came into existence in 1962 with the prime objective of augmenting milk production and consumption in the state. Now the Department not only considers the sector to as employment opportunity of the farmers but also to ensure safe milk for consumption according to the requirements. The Dairy Development Department of the state is the nodal agency for fodder development activities in the state

Major Activities

The major activities to augment milk production include rural dairy extension and advisory services, Organization of Dairy co-operatives, Strengthening of Dairy co-operatives in the state, undertaking Fodder development programmes, Milk Shed Development programme, Cattle feed subsidy scheme, assistance to indebted farmers of the state, extending assistance to PSU's like KCMMF, Regional Unions etc, assisting NGO's like Brahmagiri Development Society, Wayanad, assistance to Kerala Dairy Farmers Welfare Fund Board. Besides these the Department also carries out statutory functions under the Kerala Co-operative Societies act, 1969. The Department is carrying out quality control activities at producer's level and consumer's level to ensure that safe and good quality milk is being produced at farm level and also to ensure that superior quality milk reaches the consumers at end point. The Department functions in tandem with the Food Safety and Standards Authorities to ensure the quality of milk procured, stored, processed and sold in the state.

Vision of the Department

**“Self sufficiency and sustainability
in milk production
and safe food to the consumer”**

Mission of the Department

- Enhance Productivity, Production, Procurement & processing through better technology & services.
- Ensure procurement of quality milk from producers and ensure availability of safe and good quality milk to consumers.
- Ensure fair price to Dairy farmers.
- Sustainability through subsidiary Income Utilization and Natural Resource Management.
- Enable to comply with the FSSA 2006.
- Strengthen the Dairy Cooperatives for farmers prosperity.
- Reduce the production cost and ensure the availability of fodder, feeds , raw materials and other inputs.
- Ensure socio economic security of Dairy Farmers of the state.
- Employment Generation.
- Research & Development.
- Innovations.

Objective of the Department

- Increase production of milk to ensure the availability of recommended minimum dietary requirement
- To ensure self sufficiency in milk production of the state
- Enable the sector to comply with Food Safety and Standards Act 2006
- Increase Rural Employment opportunities through Entrepreneurship Development
- To ensure sustainability of the sector

- Strengthening of the organized sector and ensure maximum co-operative member participation in dairy sector
- Value Addition and improved marketing to provide better price to the farmers
- Innovations , Research and Development for cost effective production
- Provide better Services at farmers' door step
- Technology transfer through effective Extension activities.
- Automate the milk collection and pricing system of all dairy cooperatives.
- Unify the accounting and management system of dairy Cooperatives.
- Undertaking quality control programmes for ensuring good quality milk production at farm level, hygienic transportation, storage and processing at DCS level and also to ensure safe and quality milk to consumers of the state.
- Creating a network between the Dairy Co-operatives, the Dairy Development Department and other stake holder for efficient management.
- To establish distinct Dairy Zones in the state.

13th FIVE YEAR strategy of the Department

- To enhance the annual milk production from 27 to 35 lakh MT by the end of 13th plan period.
- Modernize and strengthen the quality control activities by upgrading the existing infrastructure according to Food safety and Standard Act 2006.
- Enhance the Managerial, Extension, Research and Development capability of the personnel in dairy sector.
- To create employment for 3 lakh households and increase the number of milk producers under the co-operative sector to 5 lakh.
- To overcome the deficit of roughage by increasing the area under green fodder cultivation and by better utilization of crop residues, which will bring down the deficit of green from 60% to 45%
- To modernize the infrastructure of the offices of Dairy Development at all levels for better dissemination of information to farmers by using ICT
- To set up New Dairy Extension Service Units in 'Dairy Friendly Panchayaths' of the state, which would help in increasing milk production and attain self sufficiency.
- To improve the facilities for testing the chemical and microbial quality of milk to ensure that the consumers get good quality product and the producers get better price.
- To provide ample facilities for product certification to entrepreneurs in the state for exporting milk and milk products
- To improve the procurement and marketing facilities by strengthening the existing Dairy Co-operatives and by organizing new Dairy Co-operatives in the state.
- To utilize the waste land/Unused land available with Government / Quazi-Government institutions/Educational institutions/jails etc for fodder cultivation.
- To build a new IT backbone to ensure transparency and efficiency in the delivery of services, cheaper and speedier communication, enlarged marketing opportunities for milk and milk products.
- To increase the per capita consumption of milk from 200 grams per day to 250 grams (WHO recommendations) per day by popularizing the use of milk and milk products
- Automation of Dairy Co-operatives to ensure clarity in DCS level activities and to ensure fair price to farmers
- Comprehensive Dairy Development in the state by establishing distinct DAIRY ZONES.
- Social Security to farmers by implementing comprehensive insurance programme for cattle and cattle owners

- To ensure quality of milk, milk products and cattle feed procured and sold by effectively utilizing the facilities of different quality control units at DESU Level, District Level and State Level.

PERFORMAMANCE EVALUATION – 12TH FIVE YEAR PLAN

The Department with the aid of state government and central government funds have implemented various schemes in the state with the following objectives

- Self-sufficiency in milk production of the state
- Increase in fodder production
- Reduction in milk production cost
- Strengthening of Dairy Co-operatives
- Ensuring availability of safe and quality milk to the consumers
- Ensuring Fair margin to producers
- Ensuring Socio-economic benefits to dairy farmers

The state government schemes through which the department implements various schemes ***are Rural Dairy Extension and Advisory Services, Commercial Dairy Milk and Milk Shed Development Programme, Production and Conservation of Fodder in Farmers Field and Dairy Co-operatives, Assistance to DCS, Strengthening QC labs, Cattle Feeding Subsidy Programme and Assistance to Kerala Dairy Farmers Welfare Fund. During the year 2016-17, Fund was allotted for Assistance to Brahmagiri Society and also for Assisting Indebted Farmers.***

The Department also undertakes various central government schemes under RKVY, RIDF, 13TH Finance Commission, NPDD, IDDP, SIQ&CMP, ACA, Wayanad package, Idukkipackages etc. Funds are also channelled to AH Department and PSU's like KCMMF, Regional Unions, KSPDC, KLDB as a part of the implementation of Central Schemes.

DAIRY SECTOR DURING THE FOUR YEARS OF 12TH FIVE YEAR PLAN (2012-13 TO 2015-16)

The Department with the aid of state government and central government funds have implemented various schemes in the state with the following objectives

- Self-sufficiency in milk production of the state
- Increase in fodder production
- Reduction in milk production cost
- Strengthening of Dairy Co-operatives
- Ensuring availability of safe and quality milk to the consumers
- Ensuring Fair margin to producers
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The Department also undertakes various central government schemes under RKVY, RIDF, 13TH Finance Commission, NPDD, IDDP, SIQ&CMP, ACA, Wayanad package, Idukkipackages etc.

Funds are also channelled to AH Department and PSU's like KCMMF, Regional Unions, KSPDC, KLDB as a part of the implementation of Central Schemes.

Rural Dairy Extension & Advisory Services

The objective of this programme is to upgrade the knowledge of dairy farmers so as to adopt modern, scientific practices in dairying, optimize cattle feeding practices, reduce intercalving period, etc. The components are seminars, cattle shows, farmers contact programmes, quality awareness programmes, consumer interface programmes, training of farmers/women at the Dairy Training Centres and refresher training programmes to department staff, Regional Dairy Seminars, World Milk Day celebration, contingency fund for giving financial support to dairy farmers in case of unexpected losses incurred by them, provision for conducting Exposure visits for farmers/DCS personnel, publishing Department Newsletter, best Dairy Farmer Award to those who pour highest quantity of milk in the DCS etc.

To provide an opportunity and to persuade the younger generation in taking up dairying as a vocation and dairy science as a field of study, Student's Dairy Clubs will organized in High Schools. This will help to disseminate information related to prospects in field of dairying and allied sectors.

It is proposed to enable the Dairy Extension Service Units functioning in the state to be Dairy Information Centres where the farmers can access to the information like package of practices, sources of inputs including good quality animals, success stories in the field of dairying happening across the globe etc. with the help of ICT tools & techniques.

IMPROVED EXTENSION ACTIVITY FOR PROFITABLE DAIRYING

The Extension activities of the department are tailor made in such a manner that the farmers are equipped with the knowledge and skill of modern dairying activities. The schemes include conduct of Farmers contact programme, Quality awareness programme, consumer interface, Assistance for Dairy Training Centers, conduct of state / regional seminars / National cum state seminar and conferences, State Dairy Expo, Exposure visit for farmers, distribution of contingency funds, Ksheera sangamams, Establishing school dairy clubs, award to farmers, exhibitions, establishing farm field schools, infrastructure development of Dairy Training Centres etc. The scheme components like comprehensive insurance coverage to cattle and cattle owners, Hi-Tech farm under SREP, implementation of e-Governance etc. are covered under this scheme.

DAIRY COOPERATIVES AND MEMBER PARTICIPATION IN DCS

The number of registered Dairy Co-operatives under the Department has hiked from 3539 to 3671 during the year from 2012-13 to 2016-17.

The increase in registered DCS has brought an additional 35,000 farmers under the Co-operative Umbrella and hence an assured economic and social security for the member farmers. It is estimated that the member participation has increased by 14%.

MILK PRODUCTION – 12TH FYP PERIOD

The milk procurement through the Dairy Co-operatives have shown a positive inclination during 12th FYPi.e during the period from 2012-13 to 2016-17.

| YEAR | DCS COLLECTION (LAKH LITRE PER DAY) | DCS COLLECTION (LAKH METRIC TONNE PER ANNUM) |
|---------|--|--|
| 2012-13 | 13.39 | 4.89 |
| 2013-14 | 14.43 | 5.27 |
| 2014-15 | 15.26 | 5.57 |
| 2015-16 | 16.24 | 5.93 |
| 2016-17 | 16.27 | 5.94 |

As detailed above the average milk procurement through DCS has hiked from 13.39 lakh litre per day (2012-13) to 16.27 lakh litre per day (2016-17). There was a hike of 21.5 %

The Total Milk production of the state during the 12TH FYP period (2012-13 to 2016-17) is as below.

| Year | Milk Production (LMT) |
|---------|--------------------------|
| 2012-13 | 27.92 |
| 2013-14 | 26.55 |
| 2014-15 | 27.11 |
| 2015-16 | 26.49 |
| 2016-17 | 26.61 * |

The Figure indicated for 2016-17 is projected based on the milk procurement through DCS.

FODDER DEVELOPMENT

The Dairy Development Department is the Nodal Agency for Fodder Development in the State. During the period from 2012-12 to 2016-17, a plan fund of Rs 30.07 crores have been expended for the fodder development of the state.

Additional Area brought under fodder cultivation

| YEAR | FODDER CULTIVATION (HYBRID NAPIER – Ha) |
|---------|--|
| 2012-13 | 2756 |
| 2013-14 | 2816 |
| 2014-15 | 3727 |
| 2015-16 | 2665 |
| 2016-17 | 2645 |
| TOTAL | 14609 |

Around 23.57 LMT fodder was additionally produced during this period.

Apart from hybrid Napier cultivation, an area of 1797.5 Ha has been assisted for cultivation of short term crops like Maize, Cow pea, sorghum etc.

27,305 units of azolla cultivation were assisted during the period from 2012-13 to 2016-17 . The department has also assisted over 80,000 farmers for mechanization and irrigation of fodder plots. The department has assisted the formation of 177 number of SHG Women Groups (GOPALIKA GROUPS) for the cultivation and marketing of fodder. These groups are presently working in a viable and feasible manner.

As a part of the Integrated Dairy Development Programme, during the year 2014-15 and 2015-16 farmers from Kannur, Thrissur, Ernakulam, Idukki districts were assisted for the fodder development activities. During the year 2016-17, the districts of Kollam and Ernakulam were assisted for fodder development activities under the IDDP programme.

During the last 5 years, Hi-Tech Fodder development programmes were taken up. During 2014-15 assistance was given to 3 DCS, one each under each regional union to establish Hydroponic Fodder Systems. Assistance were given for silage making, vermi compost making, Integrated fodder cultivation of Hybrid Napier with Muringa, Fodder cultivation with bio fencing etc. More than 25 dairy farmers were assisted for establishing compact type Hydroponic Units.

HERD INDUCTION AND MECHANISATION THROUGH MILK SHED DEVELOPMENT PROGRAMME

The MSDP programme carried out during the period from 2012-13 to 2016-17 have helped to improve the milch animal strength and also heifer strength of the state. It has helped to stabilise the milk production of the state.

The number of milch animal and heifer inducted as a part of MSDP programme is as below

| YEAR | MILCH ANIMALS INDUCTED (No.) | HEIFERS INDUCTED (No.) | ESTMATED HIKE IN MILK PRDN. (Lakh Litre per annum) |
|--|-------------------------------------|-------------------------------|---|
| 2012-13 | 3507 | 1000 | 84 |
| 2013-14 | 4717 | 1175 | 113 |
| 2014-15 | 6339 | 1770 | 152 |
| 2015-16 | 7215 | 2145 | 173 |
| 2016-17 | 7101 | 2320 | 170 |
| GRAND TOTAL - 12TH FYP | 28879 | 8410 | 693 |

From the year 2012 onwards 7336 farmers had been assisted in various schemes, with total Rs 3282.82 Lakhs assistance.

ASSISTANCE TO DAIRY CO-OPERATIVES

During the period from 2012-13 to 2016-17, Rs7824 lakh were extended as plan assistance for the strengthening of Dairy Co-operatives.

1820 dairy co-operatives were assisted for the implementation of FSSA standards. 332 DCS were given assistance for establishing Automatic Milk Collection Centres. An excess of 1500 DCS personnel, Board members including elite farmers coming under the DCS were given specialised training as a part of FSSA. Information Kiosk was established at 190 DCS. Information Centre with modern building and infrastructure facility were established at 143 Dairy Co-operatives throughout the state. Assistance was given to Wayanad consortium for establishing Unified Accounting Software for DCS and replicating the same to other districts of the state. During the period from 2012-13 to 2016-17, the best APCOS and Non-APcos of the state were awarded Dr. V. Kurien Award (Rs 1 lakh each).

During the last 5 year, 260 number of DCS were assisted for newly registering / revival of Dormant DCS. 60 No of DCS were assisted for infrastructure development, construction of chilling plants / processing units, items for establishing cold chain in the DCS, purchase of transportation vehicles, installation of BMCC, Packing units etc so as to meet the FSSA norms.

During the 12th FYP, the state plan fund was utilised under this head for extending

- Assistance for hygienic milk collection Rooms / Storage Rooms
- Need Based Assistance to DCS
- Automatic Milk Collection Units
- Bulk Milk Coolers
- Activities for chilling / processing / packing / marketing of milk
- Assistance for establishing cattle feed compounding units
- Unified Accounting Software – replication of wayanad model
- Completed FSSA training for 16,000 no. of DCS personnel's during the 12th FYP Period

QUALITY CONTROL ACTIVITIES

As a part of the QC programme under plan scheme, the department during the last 4 years has strengthened the district QC labs of all the 14 districts. Mobile Quality Control Units were established at 4 districts using state plan fund. The state lab is now NABL accredited and is equipped with highly sophisticated testing equipment like HPLC, GLC, GC, Atomic absorption spectrometer, facility for testing of radioactivity in water, facilities for testing of aflatoxin in cattle feed samples etc. Almost 70 parameters can be tested for milk, milk products, cattle feed and water. Its of the first kind in the state which is equipped to test this much extended parameters. During the last 5 years, the department could establish regional labs at Kasargod and Kottayam and has started functioning in its full potential. Rs 329 lakh was given as assistance for establishing the regional lab at kasargod and Rs 239 lakh for Kottayam Lab. The regional lab at Alathur has also been strengthened during the 12th FYP.

As a part of the Quality Control Programme, special milk testing drives were conducted at 5 check posts during the Onam season. Special quality checks at District Head quarters were also carried out during the festive seasons.

As a part of the automation programme, the department is now equipped with a online quality control software module of automated evaluation and reporting of the milk samples analysed.

Financial assistance were extended to 260 no. of DCS with BMCC during the Period from 2012-13 to 2015-16 for establishing modern and equipped milk testing laboratory. 53 number of DCS were assisted for improving the Effluent Treatment Mechanism and thereby reducing the chance of pollution control problems.

During the 12th FYP period, the Department

- * Assisted 304 No. of DCS with BMCC for establishing modern and equipped milk testing laboratory (Rs 228 lakhs)
- * Established an Online Quality Control Module – for testing of milk and milk products
- * Assisted 53 DCS for countering Pollution Control Problems during procurement, chilling, storage, processing and marketing of milk.

CATTLE FEEDING SUBSIDY PROGRAMME

By making use of the State Plan Scheme, the department has disbursed cattle feeding subsidy to dairy farmers who pour milk at DCS at the rate of Rs 1 per litre of milk poured in DCS.

| YEAR | CATTLE FEEDING SUBSIDY (Rs in Lakh) | NO. OF BENEFICIARIES (Lakh) |
|--------------------|---|-----------------------------------|
| 2012-13 | 839.84 | 1.33 |
| 2013-14 | 753.42 | 1.39 |
| 2014-15 | 1050 | 1.42 |
| 2015-16 | 1350 | 1.52 |
| 2016-17 | 1350 | 1.63 |
| GRAND TOTAL | 5343.26 | |

From the year 2013-14, the subsidy was given as production incentive and was disbursed in DBT Mode. As on date around 3.02 lakh farmers are enrolled to the DBT programme. Assistance was also given for purchase of cattle feed supplement by dairy farmers.

ASSISTANCE TO KERALA DAIRY FARMERS WELFARE FUND

The KDFWF has at present 2.77 lakh farmers who have completed registration and is presently distributing pension to 69,613 no. of eligible members at the rate of Rs 500 per month. Other benefits like family pension, marriage assistance, cremation assistance, educational assistance, social security scheme etc are also being extended to the eligible members. The KDFWF has ensured the socio economic status of the dairy farmers of the state.

AUTOMATION PROGRAMME OF THE DEPARTMENT

Utilising the state plan fund and central plan fund, during the last 5 years, the department has given emphasis for the overall automation programme . All the 162 DESU, 14 District Offices, 14 Quality Control Units, 5 Dairy Training Centres and State Dairy Farm, Valiyathura are computerised and is on the verge of networking. The cattle feeding subsidy is now distributed to almost 2 lakh farmers in DBT mode. The directorate is almost equipped with a full-fledged computer training centre. The Dairy Training Centres are at present having Smart Classrooms to ensure quality training to officials, DCS personnel and farmers of the state.

STANDARDS FOR DIFFERENT CLASSES AND DESIGNATIONS OF MILK AND MILK PRODUCTS UNDER FOOD SAFETY AND STANDARD ACT 2006

| Class of Milk | Designation | Locality | Minimum % | |
|-------------------|--------------------------|-----------|-----------|-----|
| | | | FAT | SNF |
| A. MILK | | | | |
| Standardised Milk | Raw, Pasteurised, Boiled | All India | 4.5 | 8.5 |
| Recombined Milk | -do- | All India | 3.0 | 8.5 |
| Toned Milk | -do- | All India | 3.0 | 8.5 |
| Double toned Milk | -do- | All India | 1.5 | 9.0 |
| Skimmed Milk | -do- | All India | 0.5* | 8.7 |
| Cow Milk | -do- | Kerala | 3.2 | 8.3 |
| Buffalo Milk | -do- | Kerala | 5.0 | 9.0 |
| Goat Milk | -do- | Kerala | 3.5 | 9.0 |

* not more than

B. PRODUCTS

| | |
|-------------------------|--|
| Cream | Milk fat 25% minimum |
| Curd | Fat & S.N.F as the milk from which it is prepared. |
| Channa | Moisture 70% max. Fat 50% of dry matter minimum |
| Skim milk channa | Moisture 70% max. Fat 13% of dry matter minimum |
| Cheese (Hard) | Moisture 43% max. Fat 42% of D.M. Stabiliser/emulsifier/Nisin 0.1% |
| Processed Cheese | Moisture 47% max. Fat 40% of D.M mini. Salt 3% max. Stabiliser/Emulsifier 4% Sorbic Acid 0.1 or Nisin 0.1% |
| Ice Cream | Milk Fat 10% min. (8% min. If contains fruit & nuts) Protein 3.5% min T.S 36% min. Stabiliser/emlsi T.S 36% min Emulsifier/Stabiliser 0.5% max |
| Milk ices/Lollies | Milk Fat 2% max. Protein 3.5% min. T.S. 20% min. Stabiliser/emulsifier 0.5% max. |
| Condensed Milk | Fat 8% min. |
| Unsweetened | |
| Evaporated Milk | Total Milk Solids 26% min. |
| Condensed Milk | Fat 9% min. |
| Sweetened | Total Milk Solids 31% min. Cane Sugar 40% min. |
| Condensed Skimmed Milk | Total Milk Solids 20% min. |
| Unsweetened | |
| Evaporated Skimmed Milk | Milk Fat not more than 0.5% by weight. |
| Condensed Skimmed Milk | Total milk solids 26% min. cane sugar 40% min. |
| Sweetened | Milk fat not more than 0.5% by weight |
| Whole Milk Powder | Fat 26%, acidity 1.2%, L.A. Max., solubility 98.5%(Spray) 85%(Roller)., S.Index 2.0ml(Spray)&15.0ml(roller). Moisture 5% max.BHA 0.01%. Coliform 90/gm. S.P.C. 50000g Sod. Citrate 0.3% |
| Skimmed Milk Powder | Milk Fat 1.5% max. Moisture 5% max. Acidity 1.5% max. Sod. Citrate 0.3% S.P.C 50000/gm Coliform 90/gm |
| Solubility percent | Roller dried : 85 Spray Dried : 98.5 |
| Solubility Index | -do- : 15.0ml -do- : 2.0ml |

| | |
|-------------------------------|---|
| Partially Skimmed Milk Powder | Moisture 5% max. Fat between 1.6 and 24%. Acidity 1.5% L.A. max. Sod. Citrate 0.3% B.H.A 0.01% |
| Solubility percent | Roller dried : 85 Spray Dried 98.5 |
| Solubility Index | -do- 15.0ml -do- 2.0ml |
| Khoa | Moisture 28% max. Fat 20% min. |
| Table Butter | Milk Fat 80% min. Salt 3% max. Curd 1.5% min. Diacetyl 4 ppm max. |
| Deshi Butter (cooking) | Fat 76% min. |
| Ghee | Butyro-refractometer 40 to 43 reading at 40°C. Minimum reichert value 28.0% of free fatty acids as 3.0 oleic acid (max. limit). % of moisture (max. limit) 0.5. |
| Infant Milk Food | Moisture 5% max. Fat 18% (min). 28% (max). Total Carbohydrates 35% (min) Milk Proteins 20% (min). Ash 8.5% (max) S.P.C 50000/gm. S.I. 2.0ml (Spray). |
| Soy-whey Food | Fat 12%. Protein 23%, Carbohydrate 50.5%, Ash 5.0%, Moisture 1.5% fortification with vitamins & iron. |
| Coffee Complete | Instant coffee 7.2% S.N.F. 20.0%, Sugar 39.0%, Water 25.0%, Total solids 75.0%. Milk fat 8.5%. |
| Tea Complete | Fat 13%. S.N.F 31.5%, Sugar 39.5%, Tea solids 14.0% Moisture 2.0% |

MICROBIOLOGICAL STANDARDS FOR MILK

| | Bacteriological Quality/Grade | | | | |
|--------------------|-------------------------------|-----------|------------|-------------|-------------|
| | Very Good | Good | Fair | Poor | Very Poor |
| Direct microscopic | | <5,00,000 | 5,00,001 - | 4,000,001- | >20,000,000 |
| Count(DMC) | — | | 4,000,000 | 20,000,000 | |
| Count per ml. | | | | | |
| Standard Plate | <2,00,000 | 2,00,001- | 1,000,001- | >5,000,000 | |
| Count (SPC) | | 1,000,000 | 5,000,000 | | — |
| Count per ml. | | | | | |
| Methylene Blue | 5 and above | 3 and 4 | 1 and 2 | ½ and below | |
| Reduction Time | | | | | |

FODDER CROPS AND CULTIVATION PRACTICES

| | Activity | Hybrid Napier | Guinea Grass | Congo Signal | Fodder maize | Fodder Cowpea | Stylosanthes |
|----|---------------------------------|---|--|---|---|--------------------------------------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Suitable Location | Low Altitude Regions | Low Altitude Regions | Low up to an altitude of 2000m | Low up to an altitude of 2000m | Low Altitude Regions | Low Altitude Regions |
| 2 | Season | June – Sept | June - Sept | June - Sept | May - June | Throughout the year | May - Sept |
| 3 | Soil | Lateritic to Alluvium soil with good drainage | Same | Same | Same | Same | Same |
| 4 | Planting Material required / ha | 40,000 seedlings | 69000 to 100000 rooted cuttings OR seeds 10 Kg | 2.5 lakhs rooted cutting OR 8 Kg seeds | 25-30 Kg seeds | 40 Kg seeds | 6 Kg seeds |
| 5 | Spacing | 50x50cm | 40x40 cm | 20x20 cm | 70x15 cm | 30x 30 cm | 30x30 cm |
| 6 | Organic manure (tons/ha) | 50-20 | 15-20 | 15-20 | 15 | 10 | 10 |
| 7 | Basal dose of P2O5/ha | 40 Kg | 60 Kg | 60 KG | 40 Kg | 30 Kg | 40 Kg |
| 8 | Top dressing | Apply 30 Kg N/ha or cowdung slurry after 2nd harvest. Repeat atleast 3 times in a year. | Same | Same | Apply 65 Kg N 30 DAS and at 60 DAS | ... | ... |
| 9 | Harvest | 60-70 days after planting and then at 45 days interval | 50-60 days After planting and then at 40 days interval | 60-70 days After planting and then at 45-50 days interval | 90-100 days after sowing | At following and pod formation stage | 60-80 DAS and then at 45-50 days interval |
| 10 | Average yield (tons/ha/year) | 100-300 | 70-75 | 40-50 | 40-50 (per crop) | 15-20(per crop) | 30-40 |
| 11 | Weeding and interculture | 2-3 times | 2-3 times | Once | 2-3 times and earthing up growing stage | Once | Once |

| DAIRY DEVELOPMENT DEPARTMENT DCS REGISTERED - AS ON 31.08.2017 | | | | |
|---|---------------------------|--------------|------------------|------------------|
| REGION | DISTRICT | APCOS | NON APCOS | TOTAL DCS |
| THIRUVANANTHAPURAM | THIRUVANANTHAPURAM | 344 | 78 | 422 |
| | KOLLAM | 280 | 62 | 342 |
| | PATHANANAMTHITTA | 188 | 16 | 204 |
| | ALAPPUZHA | 251 | 24 | 275 |
| ERNAKULAM | KOTTAYAM | 252 | 28 | 280 |
| | IDUKKI | 194 | 15 | 209 |
| | ERNAKULAM | 331 | 17 | 348 |
| | THRISSUR | 223 | 63 | 286 |
| MALABAR | PALAKKAD | 328 | 21 | 349 |
| | MALAPPURAM | 266 | 30 | 296 |
| | KOZHIKODE | 233 | 15 | 248 |
| | WAYANAD | 54 | 2 | 56 |
| | KANNUR | 169 | 56 | 225 |
| | KASARGOD | 136 | 7 | 143 |
| GRAND TOTAL | | 3249 | 434 | 3683 |

KERALA DAIRY FARMERS WELFARE FUND

ABSTRACT OF PENSION , FAMILY PENSION, MARRIAGE ASSISTANCE , CREMATION ASSISTANCE, EDUCATION ASSISTANCE, EDUCATION ASSISTANCE, KSHEERAKSHEMA INSURANCE, KSHEERA SURAKSHA SCHEME,TREATMENT SCHEME; BEST FARMER AWARD AND ENROLLMENT SANCTIONED TILL 25.10.2017 (BOARD 66)

| DISTRICT | NO. OF PENSIONERS | NO. OF FAMILY PENSIONERS | MARRIAGE ASSISTANCE | CREMATION ASSISTANCE | EDUCATION ASSISTANCE SCHEMES | | | | | | | | | | KSHEERA KSHEMA INSURANCE 2008-09 | | | | | KSHEERA SURAKSHA | | | | | | | | | | TREATMENT SCHEME | BEST FARMER AWARD | ENROLLMENT TILL BOARD 66 |
|-------------|-------------------|--------------------------|---------------------|----------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----|----------------------------------|-----------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|------------------|-------------------|--------------------------|
| | | | | | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 | MEMBER | DEP | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | | | | |
| | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | R | END | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | | | |
| TVM | 8500 | 645 | 1095 | 866 | 52 | 24 | 11 | 22 | 18 | 25 | 30 | 0 | 204 | 6 | 133 | 55 | 17 | 12 | 9 | 7 | 10 | 0 | 1 | 30261 | | | | | | | | |
| KOLLAM | 6253 | 489 | 1077 | 975 | 59 | 43 | 37 | 19 | 25 | 36 | 23 | 10 | 120 | 0 | 103 | 21 | 45 | 32 | 48 | 40 | 38 | 0 | 6 | 23624 | | | | | | | | |
| PTA | 2098 | 110 | 397 | 307 | 32 | 29 | 11 | 8 | 21 | 18 | 11 | 3 | 93 | 0 | 30 | 12 | 14 | 9 | 17 | 14 | 9 | 6 | 10572 | | | | | | | | | |
| ALAPPUZHA | 5981 | 407 | 1300 | 939 | 70 | 57 | 22 | 29 | 24 | 29 | 31 | 9 | 55 | 0 | 36 | 31 | 13 | 22 | 11 | 18 | 5 | 8 | 21661 | | | | | | | | | |
| KOTTAYAM | 3586 | 228 | 349 | 401 | 53 | 61 | 48 | 23 | 46 | 47 | 35 | 3 | 147 | 2 | 39 | 30 | 19 | 22 | 30 | 28 | 20 | 796 | 6 | 15748 | | | | | | | | |
| IDUKKI | 3991 | 183 | 496 | 438 | 51 | 50 | 47 | 45 | 40 | 28 | 24 | 1 | 156 | 5 | 43 | 42 | 29 | 31 | 35 | 16 | 8 | 0 | 5 | 18934 | | | | | | | | |
| ERNAKULAM | 7868 | 565 | 721 | 1033 | 61 | 59 | 44 | 51 | 47 | 48 | 38 | 5 | 97 | 7 | 61 | 67 | 54 | 34 | 48 | 63 | 46 | 0 | 4 | 26756 | | | | | | | | |
| THRISSUR | 5527 | 523 | 713 | 1166 | 57 | 56 | 48 | 63 | 40 | 37 | 9 | 0 | 78 | 1 | 59 | 55 | 48 | 35 | 49 | 50 | 32 | 0 | 10 | 18030 | | | | | | | | |
| PALAKKAD | 7834 | 524 | 1587 | 1001 | 74 | 68 | 72 | 91 | 74 | 62 | 58 | 1 | 73 | 0 | 56 | 40 | 21 | 30 | 25 | 16 | 11 | 52 | 7 | 33910 | | | | | | | | |
| MALAPPURAM | 2366 | 104 | 257 | 248 | 29 | 29 | 7 | 10 | 15 | 6 | 15 | 1 | 15 | 0 | 9 | 11 | 8 | 7 | 6 | 4 | 2 | 0 | 6 | 12775 | | | | | | | | |
| KOZHIKODE | 5958 | 263 | 680 | 620 | 35 | 37 | 31 | 48 | 46 | 39 | 32 | 5 | 28 | 0 | 29 | 25 | 21 | 15 | 16 | 13 | 14 | 0 | 8 | 27497 | | | | | | | | |
| WAYANAD | 4991 | 247 | 296 | 531 | 32 | 22 | 26 | 18 | 17 | 18 | 22 | 2 | 42 | 0 | 10 | 8 | 4 | 2 | 5 | 6 | 1 | 0 | 6 | 20967 | | | | | | | | |
| KANNUR | 6861 | 318 | 648 | 676 | 48 | 35 | 14 | 38 | 33 | 42 | 18 | 3 | 32 | 0 | 32 | 17 | 16 | 14 | 18 | 18 | 19 | 0 | 8 | 26653 | | | | | | | | |
| KASARGOD | 1943 | 44 | 290 | 138 | 22 | 24 | 26 | 27 | 23 | 25 | 28 | 0 | 22 | 0 | 28 | 20 | 20 | 25 | 18 | 8 | 4 | 0 | 6 | 10476 | | | | | | | | |
| GRAND TOTAL | 73757 | 4650 | 9906 | 9339 | 675 | 594 | 444 | 492 | 469 | 460 | 374 | 43 | 1162 | 21 | 668 | 434 | 329 | 290 | 335 | 301 | 219 | 1519 | 87 | 297864 | | | | | | | | |

AIRPORTS / SELECTED RAILWAY STATIONS / K.S.R.T.C. STATIONS IN KERALA

| AIRPORT | | Telephone Number | | |
|-------------------------------|---------|------------------|-----|---------|
| THIRUVANANTHAPURAM | | | | |
| Indian Airlines | STD No. | OFFICE | PER | RESI |
| Airport Enquiry & Reservation | 0471 | 2310310 | - | -- |
| Enquiries | | 2501537 | | |
| Duty Officer | | 2501237 | | |
| Flight Enquiry | | 2502323 | | |
| Office | | 2316940 | | |
| Air India | | | | |
| Duty Officer | | 2501281 | | 2451894 |
| Enquiry | 2501426 | | | |
| City Officer/Reservation | 2310310 | | | |
| KOCHI | | | | |
| Airport Enquiry & Reservation | 0484 | 2610115/2610116 | | |
| Airport Director | | 2610006 | | 2534773 |
| Air India | | 2610050 | | 2351295 |
| Indian Airlines | | 2610041 | | 2371141 |
| KOZHIKODE | | | | |
| Airport | 0483 | 2711325 | | |
| Director | | 2710517 | | |
| Offier-in-charge | | 2711325 | | |
| Indian Airlines | | 2270190 | | |
| Enquiry | | 2766056 | | |
| Manager | | 2710100 | | |

RAILWAY STATIONS

| | STD | | Office | Per. | Resi |
|-------------------------------|------|--------------------------|----------|------|---------|
| 1. Thiruvananthapuram Central | 0471 | Enquiry & Reservation | 131, 132 | | |
| | | Station Superintendent | 2326037 | | |
| | | Public Relations Officer | 2326037 | | |
| 2. Kollam | 0474 | Enq.& Reservation | 2746194 | | |
| 3. Kottayam | 0481 | Enquiry | 131 | | |
| | | Enquiry & Reservation | 2563535 | | |
| | | Station Supdt. | 2562933 | | |
| 4. Alappuzha | 0477 | Enq.& Reservation | 2253965 | | |
| | | Station Supdt. | 2253965 | | |
| 5. Ernakulam | 0484 | Enq.& Reservation | 131 | 132 | 2390920 |
| North 2393413 | | Station Supdt. | 2369419 | | |
| Ernakulam South | | Enquiry (Computer) | 2375131 | | |
| 6. Thrissur | 0487 | Enq.& Reservation | 2423150 | | |
| | | | 2440251 | | |
| 7. Palakkad | 0491 | Enquiry | 2555231 | | |
| 8. Nilambur | 0493 | | 2220237 | | |
| 9. Kozhikode | 0495 | Enq.& Reservation | 2703822 | | |
| | | Station Supdt. | 2701499 | | |
| 10.Kasaragod | 0499 | | 2430200 | | |
| 11.Kannur | 0497 | Enquiry | 2705555 | | |
| 12.Chengannur | 0479 | Enq.& Reservation | 2452340 | | |
| | | | 2454240 | | |
| 13.Cherthala | | Station Master | 2812500 | | |
| 14.Thiruvalla | 0469 | | 2601314 | | |
| 15.Pathanamthitta | 0468 | Reservation Agency | 2325676 | | |

DISTANCE (ROAD) - (Kilometre)

| | | | | | |
|--|---|--------------------|----------------|-----|-----|
| 1. From Thiruvananthapuram (NH) | | Nedumangad | - | 20 | |
| Attingal | - | 33 | Neyyar Dam | - | 27 |
| Kollam | - | 71 | Chirayinkil | - | 40 |
| Kayamkulam | - | 109 | Varkala | - | 56 |
| Haripad | - | 122 | Ponmudi | - | 61 |
| Alappuzha | - | 157 | Kallada | - | 84 |
| Cherthala | - | 178 | Pathanapuram | - | 87 |
| Ernakulam | - | 219 | Karunagappalli | - | 98 |
| Aluva | - | 240 | Ochira | - | 107 |
| Angamali | - | 251 | Mavelikkara | - | 122 |
| Chalakkudi | - | 268 | Pathanamthitta | - | 113 |
| Thrissur | - | 297 | Kozhencherry | - | 120 |
| Palakkad (via. Alathur) | - | 365 | Aranmula | - | 128 |
| Kunnamkulam | - | 319 | Ranni | - | 129 |
| Kuttippuram | - | 351 | Moozhiyar | - | 178 |
| Thirurangadi | - | 389 | Palai | - | 183 |
| Ramanattukara | - | 409 | Vaikom | - | 192 |
| Kozhikode (via. Kuttippuram) | - | 425 | Koothattukulam | - | 194 |
| Quilandy | - | 449 | Thrippunithura | - | 212 |
| Vadagara | - | 472 | Kothamangalam | - | 221 |
| Mahe | - | 488 | Thodupuzha | - | 217 |
| Thalassery | - | 492 | Peerumedu | - | 231 |
| Kannur | - | 515 | Moolamattom | - | 235 |
| Thaliparamba | - | 538 | Thekkady | - | 253 |
| Payyannur | - | 561 | Devikulam | - | 308 |
| Kanhangad | - | 591 | Mattancherry | - | 223 |
| Manjeswar | - | 660 | Kalamassery | - | 232 |
| 2. From Thiruvananthapuram (M.C.Road) | | Irinjalakuda | - | 286 | |
| Kilimanoor | - | 40 | Malayattoor | - | 244 |
| Kottarakkara | - | 74 | Kodungalloor | - | 308 |
| Adoor | - | 95 | Vadakkancherry | - | 316 |
| Pandalam | - | 105 | Shornur | - | 330 |
| Chengannur | - | 118 | Guruvayur | - | 329 |
| Thiruvalla | - | 128 | Chavakkad | - | 332 |
| Changanassery | - | 136 | Pattambi | - | 345 |
| Kottayam | - | 154 | Alathur | - | 340 |
| Ettumanoor | - | 165 | Ponnani | - | 360 |
| Muvattupuzha | - | 209 | Perinthalmanna | - | 368 |
| Perumbavoor | - | 228 | Malampuzha | - | 378 |
| Angamali | - | 242 | Malappuram | - | 381 |
| 3. From Thiruvananthapuram (NH) | | Kottakkal | - | 385 | |
| Balaramapuram | - | 13 | Manjeri | - | 394 |
| Neyyattinkara | - | 20 | Nilambur | - | 418 |
| Amaravila | - | 23 | Parappanangadi | - | 434 |
| Parassala | - | 30 | Kalpetta | - | 514 |
| Kaliyikkavila | - | 32 | Mananthavady | - | 532 |
| Nagercoil | - | 70 | Thiruchenthoor | - | 167 |
| Kanyakumari (Cape Comerin) | - | 89 | Shenkotta | - | 111 |
| 4. From Thiruvananthapuram | | Madurai | - | 306 | |
| Kovalam | - | 13 | Mangalore | - | 727 |
| Vizhinjam | - | 16 | Velloor | - | 758 |
| Kattakkada | - | 19 | Chennai | - | 752 |
| | | From Kollam | | | |
| | | Kottarakkara | - | 30 | |

| | | | | | |
|-----------------------|---|-----|-----------------------|---|-----|
| Kottayam | - | 105 | From Ernakulam | | |
| Erumeli | - | 118 | Bangalore | - | 564 |
| Pamba | - | 172 | Pathanamthitta | - | 135 |
| Punalur | - | 46 | Idukki | - | 132 |
| Pathanamthitta | - | 72 | Kattappana | - | 158 |
| Shenkotta | - | 98 | Thekkady | - | 192 |
| Tuticorin | - | 214 | Punalur | - | 177 |
| From Alappuzha | | | Mattupetty | - | 145 |
| Ranni | - | 97 | Edamalayar | - | 82 |
| Chengannur | - | 64 | Vaikom | - | 29 |
| Thakazhi | - | 23 | Moovattupuzha | - | 42 |
| Harippad | - | 35 | Kothamangalam | - | 55 |
| From Kottayam | | | From Kozhikode | | |
| Devikulam | - | 188 | Vaithiri | - | 63 |
| Madura | - | 250 | Madura | - | 384 |
| Kanjirappally | - | 39 | Palai | - | 259 |
| Vaikom | - | 40 | Kalpetta | - | 73 |
| Palai | - | 28 | Pulppally | - | 125 |
| Changanassery | - | 28 | Sulthan Bathery | - | 97 |
| Thiruvalla | - | 26 | Mysore | - | 214 |
| Chengannur | - | 36 | Ootty | - | 172 |
| Pandalam | - | 50 | Moolamattam | - | 253 |
| Ponkunnam | - | 34 | Palakkad | - | 143 |
| Mundakayam | - | 53 | Thamarassery | - | 30 |
| Thodupuzha | - | 65 | Bangalore | - | 344 |
| Peerumed | - | 78 | From Palakkad | | |
| Kumili | - | 110 | Coimbatore | - | 54 |
| Thekkady | - | 115 | Ootty | - | 140 |
| Erumeli | - | 56 | Valayar | - | 19 |
| Sabarigiri | - | 119 | Guruvayur | - | 98 |
| Kumarakom | - | 14 | Anakkatty | - | 102 |
| Guruvayur | - | 161 | Chittoor | - | 74 |
| Palakkad | - | 200 | Annamala | - | 114 |

DISTANCE (RAIL) - (Kilometre)

| | | | | | |
|--------------------------------|---|-----|-------------------|---|-----|
| From Thiruvananthapuram | | | Chengannur | - | 126 |
| Pettah | - | 2 | Thiruvalla | - | 135 |
| Veli | - | 8 | Changanacherry | - | 143 |
| Kazhakootam | - | 13 | Chingavanam | - | 153 |
| Kaniyapuram | - | 17 | Kottayam | - | 161 |
| Chirayinkil | - | 28 | Ettumanur | - | 171 |
| Kadakkavoor | - | 31 | Kaduthuruthy | - | 182 |
| Varkala | - | 41 | Vaikkom Road | - | 186 |
| Edava | - | 45 | Piravom Road | - | 192 |
| Paravoor | - | 52 | Kanjiramattam | - | 196 |
| Mayyanad | - | 56 | Thrippunithura | - | 211 |
| Kollam | - | 65 | Ernakulam | - | 221 |
| Perinad | - | 74 | Edappalli | - | 230 |
| Munroethuruthu | - | 80 | Kalamasseri | - | 235 |
| Sasthamcottah | - | 85 | Aluva | - | 241 |
| Karunagappally | - | 92 | Angamali (Kalady) | - | 250 |
| Ochira | - | 100 | Chalakuudi | - | 265 |
| Kayamkulam | - | 106 | Irinjalakuda | - | 272 |
| Mavelikkara | - | 114 | Nellayi | - | 278 |

| | | | | | |
|---------------------|---|-----|---|---|------|
| Ollur | - | 289 | Ezhimala | - | 204 |
| Thrissur | - | 296 | Payyannur | - | 209 |
| Mulamgunnathukavu | - | 305 | Thrikarippur | - | 215 |
| Wadakancheri | - | 312 | Nileswaram | - | 229 |
| Vallathol Nagar | - | 324 | Kanhangad | - | 238 |
| Shornur | - | 328 | Kasaragod | - | 261 |
| Ottappalam | - | 341 | Kumbbla | - | 273 |
| Lakkidi | - | 349 | Manjeshwar | - | 290 |
| Parali | - | 363 | Ullal | - | 299 |
| Palakkad | - | 373 | Mangalore | - | 307 |
| Walayar | - | 398 | From Thiruvananthapuram | | |
| Coimbatore | - | 427 | Nemom | - | 8 |
| Erode | - | 528 | Balaramapuram | - | 14 |
| Salem | - | 587 | Neyyattinkara | - | 18 |
| Jolarpetta | - | 707 | Parassala | - | 38 |
| Katpadi | - | 791 | Kuzhithura | - | 38 |
| Arkonam | - | 852 | Nagercoil | - | 71 |
| Thiruvallur | - | 879 | Sucheendram | - | 75 |
| Avady | - | 900 | Agastheeswaram | - | 84 |
| Perambur | - | 915 | Kanyakumari | - | 87 |
| Chennai | - | 920 | From Kollam (Kollam-Shencottah) | | |
| From Shornur | | | Kilikollur | - | 5 |
| Vallapuzha | - | 10 | Kundara | - | 12 |
| Cherukara | - | 21 | Kottarakkara | - | 24 |
| Angadippuram | - | 28 | Punalur | - | 44 |
| Pattikkad | - | 34 | Shencottah | - | 94 |
| Melattur | - | 41 | Thenkasi | - | 102 |
| Vaniyambalam | - | 56 | Sivakasi | - | 200 |
| Nilamboor | - | 66 | Virudu Nagar | - | 225 |
| Pattambi | - | 12 | From Palakkad | | |
| Pallippuram | - | 27 | Puthu Nagaram | - | 16 |
| Kuttippuram | - | 30 | Kollamcode | - | 23 |
| Thirunavaya | - | 37 | Meenakshipuram | - | 42 |
| Thirur | - | 45 | Pollachi | - | 58 |
| Thanur | - | 53 | From Thiruvananthapuram (Via. Chennai) | | |
| Parappanangadi | - | 61 | Guntur | - | 1058 |
| Vallikunnu | - | 67 | Tirupathi | - | 1068 |
| Kadalundi | - | 72 | Vijayawada | - | 1353 |
| Feroke | - | 77 | Secunderabad | - | 1713 |
| Kallayi | - | 85 | Hyderabad | - | 1717 |
| Kozhikode | - | 86 | Nagpur | - | 2028 |
| West Hill | - | 91 | Visakhapattanam | - | 1503 |
| Elattur | - | 98 | Pune | - | 2009 |
| Quilandy | - | 111 | Mumbai | - | 2065 |
| Vellarakkad | - | 116 | Bhuvaneshwar | - | 2147 |
| Tikkoti | - | 120 | Ittarsi | - | 2326 |
| Payyoli | - | 123 | Bhopal | - | 2418 |
| Iringal | - | 127 | Hawra | - | 2590 |
| Badagara | - | 133 | Jhansi | - | 2709 |
| Nadapuram | - | 138 | Agra | - | 2924 |
| Mahe | - | 146 | Mathura | - | 2978 |
| Thalassery | - | 155 | Delhi | - | 3018 |
| Kannur | - | 176 | Ahamedabad | - | 2820 |
| Valappattanam | - | 182 | Ludhiyana | - | 4286 |
| Pappinisseri | - | 184 | Jammu Thavi | - | 4360 |

