

## IX. Publications

### Research Articles

- Anithakumari, P. and Jayasekar, S. 2019. Leadership and social intelligence of coconut farm leaders and implications in extension service. *Journal of Plantation Crops* 47 (3): 158 -165.
- Arvind Kumar, Rajesh, M.K., Josephraj Kumar, A. and Tony Grace. 2019. Dataset of de novo assembly and functional annotation of the transcriptome of certain developmental stages of coconut rhinoceros beetle, *Oryctes rhinoceros* L. *Data in Brief* <https://doi.org/10.1016/j.dib.2019.105036>
- Chaithra, M., Vanitha, S., Ramanathan, A., Jegadeeshwari, V., Rajesh, V., Hegde, V. and Apshara, E. 2019. Morphological and molecular characterization of endophytic fungi associated with Cocoa in India. *Current Journal of Applied Science and Technology* 38(6): 1-8
- Chandrika Mohan, Josephraj Kumar, A., Merin Babu, Arya Krishna, Prathibha, P.S., Krishnakumar, V. and Vinayaka Hegde. 2019. First record of the non-native neotropical nesting whitefly, *Paraleyrodes minei* Iaccarino on coconut palms in India and its co-existence with Bondar's nesting whitefly *Paraleyrodes bondari* Peracchi. *Current Science* 117(3): 515-519.
- Gangadhara Naik, B., Maheshwarappa, H.P., Rajkumar, M., Kallethwaraswamy, C.M., Gowdra Nagamma and Latha, S. 2019. Evaluation of entomopathogenic nematodes for the management of white grub, *Leucopholis lepidophora* Blanchard (Coleoptera: Scarabaeidae). *Journal of Entomology and Zoology Studies*.7(1):09-13.
- Hebbar, K.B., Apshara, E., Chandran, K.P. and Vara Prasad, P.V. 2019. Effect of elevated CO<sub>2</sub>, high temperature, and water deficit on growth, photosynthesis, and whole plant water use efficiency of cocoa (*Theobroma cacao* L.). *International Journal of Biometeorology* 64(1): 47-57. *Doi: <https://doi.org/10.1007/s00484-019-01792-0>*.
- Jose, C.T., Pandian, R.T.P., Najeeb, N., Pratibha, V.H., Rajkumar, Shivaji H. Thube and Chowdappa. 2019. Yield loss due to fruit rot (Mahali) disease in arecanut in Kerala and Karnataka. *Indian Journal of Arecanut and Medicinal Plants*, 21 (2):15-19.
- Josephraj Kumar, A., Chandrika Mohan, Merin Babu, Arya Krishna, Krishnakumar, V. Vinayaka Hegde and Chowdappa, P. 2019. First record of the invasive Bondar's Nesting Whitefly, *Paraleyrodes bondari* Peracchi on coconut from India. *Phytoparasitica* DOI 10.1007/s12600-019-00741-2.
- Murali Gopal and Alka Gupta. 2019. A simple 'push-pull' strategy to harvest earthworms from coconut leaf vermicompost produced in tanks. *Current Science* 117 (1): 138-144.
- Muralidharan, K., Subramanian, P., Mathew, A.C., Thamban, C., Jayasekhar, S., Krishnakumar, V. and Madhavan, K. 2019. Upscaling a coconut value chain: Empirical evidence from North Kerala. *International Journal of Innovative Horticulture*, 8 (1):72-80.
- Pandiselvam, R., Manikantan, M. R., Subhashree, N., Mathew, A.C., Balasubramanian, D., Shameena Beegum, P.P., Ramesh, S.V., Niral, V., Ranjini, T. N. and Hebbar, K.B. 2019. Correlation and principal component analysis of physical properties of tender coconut (*Cocos nucifera* L.) in relation to the development of trimming machine. *Journal of Food Process Engineering*. <https://doi.org/10.1111/jfpe.13217>.
- Pandiselvam, R., Manikantan, M. R., Sunoj, S., Sreejith, S., and Beegum, S. 2019. Modeling of coconut milk residue incorporated rice corn extrudates properties using multiple linear regression and artificial neural network. *Journal of Food Process Engineering*, 42(2), e12981. <https://doi.org/10.1111/jfpe.12981>.
- Pandiselvam, R., Manikantan, M.R., Divya, V., Ashokkumar, C., Kaavya, R., Anjineyulu Kothakota, and Ramesh, S.V. 2019. *Ozone: An Advanced Oxidation Technology for Starch Modification*. *Ozone: Science & Engineering*, 41(6): 491-507.
- Rajkumar, Jagnathan D., Shivaji Thube, Nagraj N.R. and Vinayaka Hegde and Ravi Bhat 2019. Management of root grub in arecanut with entomopathogenic nematodes – A success story. *Indian Journal of Arecanut, Spices and Medicinal plants*, 20(3):8-14.



- Rajkumar, Patil Jagadeesh, Subaharan Kesvan and Sujithra, M. 2018. Effect of chloropyrifos on survival and virulence of native entomopathogenic nematode. *Indian Journal of Nematology*, **48**(1):1-5.
- Ravindran, P., Subaharan, K., Venugopal, V., Chandran, K.P., Prathibha, P.S. and Sujithra, M. 2019. Essential oil in management of coconut rhinoceros beetle *Oryctes rhinoceros* L. *Indian Journal of Entomology*, **81**(3): 603-608.
- Shareefa, M., Thomas, R.J. and Nampoothiri, C.K. 2018. Standardization of seednut storage techniques of Kalpasree variety of coconut. *Indian Journal of Horticulture*, **75** (4): 728-731.
- Shareefa, M., Thomas, R.J., Sreelekshmi, J.S., Rajesh, M.K. and Anitha Karun. 2019. *In vitro* regeneration of coconut plantlets from immature inflorescence. *Current Science*, **117** (5): 813-820 doi: 10.18520/cs/v117/i5/813-820.
- Shil, S., Das, K.K., and Saxena, V.K., 2019. Identification of protein motifs in phytoplasma associated with root (wilt) disease of coconut (*Cocos nucifera*) using an improved statistical measure. *Agricultural Research*, **8**(1):56–64. <https://doi.org/10.1007/s40003-018-0351-5>.
- Shivaji H. Thube, Gagana Kumar Mahapatro, Chandrika Mohan, Thava Prakasa Pandian R., Elaine Apshara and Jose C.T. 2019. Biology, feeding and oviposition preference of *Helopeltis theivora*, with notes on the differential distribution of species of the tea mosquito bug species complex across elevations. *Animal Biology*. doi.org/10.1163/15707563-20191083.
- Sit, A.K. and Shil Sandip. 2019. Seasonality in sprouting and growth of black pepper rooted cuttings under sub-Himalayan Terai region. *Journal of Plantation Crops*.**47**(3): 202-206 (Short note).
- Sujithra, M., Rajkumar, Prathibha, V.H., Hegde, V. and Poorani, J. 2019. Occurrence of nesting whitefly *Paraleyrodes minei* Iaccarino (Hemiptera: Aleyrodidae) in India. *Indian Journal of Entomology*, **81** (3): 507-510.
- Thamban, C., Lijo Thomas, Chandran, K. P., Jayasekhar, S., Rajesh, M. K., Jesmi Vijayan, Srinivasan, V., Nair, K. M. and Anil Kumar, K.S. 2019. Assimilating socio-economic perspective in designing crop sector technology interventions: A farmer participatory study on coconut sector in Kerala. *Journal of Plantation Crops*, **47** (3): 180-188.
- Papers Presented in Seminars/ Symposia/ Conference/ Workshops etc.**
- Devakumar, K., Thomas, R.J. and Anitha Karun. 2019. A durable pollination rain coat for coconut hybridization during monsoon. *In: 23<sup>rd</sup> Plantation Crops Symposium (PLACROSYM-XXIII) 6-8<sup>th</sup> March 2019, CCRI, Chikkamagaluru, Karnataka (Book of Abstracts) pp 11.*
- Hegde Vinayaka, Merin Babu and Josephraj Kumar, A., 2019. Fostering refinement in diagnosis of palm phytoplasma from India. *In: International Conference on Human, Animal and Plant Mycoplasmas, 3-4 December 2019, National Centre for Microbial Resource (NCMR), National Centre for Cell Science (NCCS), Pune, Maharashtra, India. Abstract book p 47.*
- Hegde Vinayaka, Merin Babu, Prathibha, V.H. and Daliyamol 2019. Diagnosis and management of diseases in coconut and arecanut: status and strategies. *In: Abstract Book, 'XIX International Plant Protection Congress (IPPC, 2019)- Crop Protection to Outsmart Climate Change for Food Security & Environmental Conservation', pp 72.*
- Hegde Vinayaka. 2019. Diagnosis of diseases in plantation crops: Issues and challenges. Invited paper presented in International Conference on "Plant Protection in Horticulture: Advances and Challenges" (ICPPH-2019), 24-27 July at ICAR-IIHR, Bangalore pp 3.
- Indhuja, S., Sandhyaraj, J., Babu, M., Rajan, J.M., Anithakumari, P., Mathew, J. and Haris, A. A. 2019. Exploring diversity of biocontrol agents in agro-residues of coconut based farming system. pp 62 *In: Compendium on papers and abstracts -Workshop on organic farming in plantation crops-Present status and future prospects* (eds.) Ravi Bhat, Subramanian, P., Haris, A.A., Babu, M., Josephraj Kumar A., Krishnakumar, V. and Karun, K., 20<sup>th</sup> September 2019, ICAR-CPCRI, Kayamkulam. pp 62.
- Jilu V.Sajan, Maheswarappa, H.P., Srinivasan, T., Alagar, M., Krishna Rao, G., Chakkani Priya, K., Chandrasekhar, C.S., Wankhede, S.M., and Josephraj Kumar, A. 2019. Performance of botanical cake and paste against coconut rhinoceros beetle in juvenile palms. Workshop on the challenge of coconut rhinoceros beetle (*Oryctes rhinoceros*) to palm production and prospects for control in a changing world, Abstract Book. XIX International Plant Protection Congress, November 10-14, 2019, Hyderabad, pp 30.
- Josephraj Kumar, A., Chandrika Mohan, Jijo Paul, Regi J. Thomas, Vinayaka Hegde and Krishnakumar, V. 2019 Smart Vigilance and stimulo-deterrence in the bio-suppression of red palm weevil infesting coconut. *Workshop on Outsmarting the Red palm Weevil-A global challenge. In: Abstracts, XIX International Plant Protection Congress, November 10-14, 2019, Hyderabad, P 49-50.*
- Josephraj Kumar, A., Chandrika Mohan, Thomas, R.J., Shareefa, M., Anes, K.M. and Krishnakumar, V. 2019 Crop pluralism in coconut plantation for pest regression. *In: "Compendium on papers and abstracts"- National Workshop on 'Organic farming in plantation crops-Present status and future prospects' (eds.) Bhat, R., Subramanian, P., Haris, A.A., Babu, M., Josephraj Kumar, A., Krishnakumar, V. and Karun, A.*



- 20<sup>th</sup> September, 2019, ICAR-CPCRI, Kayamkulam. pp 64.
- Josephraj Kumar, A., Merin Babu, Anes, K.M. and Kalavathi, S. 2019. Smart Agriculture Options for Next Generation Students. Agricultural Education Day, December 03, 2019 ICAR-CPCRI, Regional Station, Kayamkulam. pp 37.
- Mathew, J., Darsana, S., Chinchu, M.R., Surya, R., Indhuja, S., Haris, A.A., Krishnakumar, V. and Bhat, R. 2019. *In: Compendium of Papers and Abstracts, National Workshop on 'Organic Farming in Plantation Crops- Present status and future prospects' ICAR-CPCRI, RS, Kayamkulam 20 September 2019.* pp 66.
- Nihad, K., Haris, A.A., Krishnakumar, V., Sudhanandan, K.K. and Subramanian, P. 2019. Efficacy of organic inputs on coconut productivity in root (wilt) disease tracts. *In: 'Compendium of Papers and Abstracts' National Workshop on 'Organic Farming in Plantation Crops - Present status and future Prospects' ICAR-CPCRI, Regional Station, Kayamkulam 20<sup>th</sup> September 2019.* pp 63.
- Prathibha V. H., Hegde Vinayaka, Gangaraj K. P. and Rajesh M. K. 2019. *Lasiodiplodia* dieback: an emerging disease of cocoa in India. *In: Souvenir and Abstracts, International conference on "Plant Protection in Horticulture: Advances and Challenges" 24-27 July at ICAR-IIHR, Bangalore, pp 200.*
- Prathibha, P.S., Josephraj Kumar, A. and Ravindran, P. 2019. Essential oil repellents against red palm weevil *Rhynchophorus ferrugineus* Oliver (Curculionidae: Coleoptera) on coconut. *In: Abstract Book. Workshop on outsmarting the red palm weevil-A global challenge. XIX International Plant Protection Congress, November 10-14, 2019, Hyderabad, pp 51.*
- Rajkumar, Jagnathan, D., Shivaji H. Thube, Harsha, K., Sujithra, M. and Vinayaka Hegde. 2019. Application of *Steinernema carpocapsae* aqua formulation for integrated management of white grub infestation in areanut gardens of Western Ghats from Karnataka, India. *In: Book of Abstracts, 23<sup>rd</sup> Plantation Crops Symposium, 6 – 8 March, 2019 at Chikkamagaluru.* pp 96.
- Rajkumar, Nihad, K., Krishnakumar, V., Hegde Vinayaka. 2019. Combined effect of organic and inorganic amendments on root knot nematode infestation in papaya under coconut cropping system in Kerala. *In: Souvenir and Abstracts, International conference on Plant Protection in Horticulture: Advances and Challenge, 24-27 July 2019, ICAR-IIHR, Bangalore, pp 72.*
- Ravi Bhat, Subramanian, P., Haris, A.A., Merin Babu, Josephraj Kumar A., Krishnakumar, V. and Anitha Karun. 2019. *In: Compendium on papers and abstracts -Workshop on organic farming in plantation crops- Present status and future prospects, ICAR-CPCRI, Kayamkulam, September 20, 2019, pp 74.*
- Sajan Jilu, V., Maheswarappa, H.P., Srinivasan, T., Alagar, M., Krishna Rao, G., Chakkani Priya, K., Chandrasekhar, C.S., Wankhede, S.M., and Josephraj Kumar, A. 2019. Performance of botanical cake and paste against coconut rhinoceros beetle in juvenile palms. *In: Abstract Book. Workshop on the Challenge of Coconut Rhinoceros Beetle (*Oryctes rhinoceros*) to Palm Production and Prospects for Control in a Changing World, XIX International Plant Protection Congress, November 10-14, 2019, Hyderabad, pp 30.*
- Sujithra, M., Rajkumar, Vinayaka Hegde and Subramanian, P. 2019. A cost effective passive trapping technique for managing rhinoceros beetle menace in coconut plantations. *In: Reddy, P.V. R, et al. (eds.). Book of Souvenir and Abstracts, International Conference of Plant Protection in Horticulture: Advances and challenges, 24-27 July 2019, Bengaluru.* pp 59.
- Thomas, R.J., Shareefa, M., Nampoothiri, C.K. and Mathew, J. 2019. Evaluation of green dwarf varieties of coconut for tender nut purpose in the root (wilt) disease prevalent tract. *In: Proc. Proevctus Plantae'19 (International Conference on Exploring the scope of Plant Genetic Resources) 22-24<sup>th</sup> May 2019, Department of Botany, University of Kerala, Thiruvananthapuram, Kerala State.* pp 416-419.

#### Popular Articles

- Alka Gupta, Murali Gopal and Maheswarappa, H.P. 2019. Vermicomposting of stovers from baby corn, an intercrop of coconut garden. *Indian Coconut Journal*, **62**(1): 20-22.
- Anithakumari, P. and Induja, S. 2019. Recycling for resource efficiency- A practical model for up scaling. *LEISA India*, **21** (2): 33-36.
- Anithakumari, P. and Mohan, M. 2019. Let us regain the summer crops in coconut gardens. *Karshakasree*, **25** (4): 34-37.
- Anithakumari, P., Shanida Beevi, Thejaswibhai and Priya K. Nair. 2019. Participatory technology delivery mechanisms for coconut farming communities. *Indian Coconut Journal*. **62**(1): 12-17.
- Anithakumari, P., Shareefa, M., Indhuja, S. and Josephraj Kumar, A. 2019. Kera Nanma - for coconut palms and farmers. *Indian Naleekera Journal*, **10** (5): 17-20.
- Anithakumari, P. and Indhuja, S. 2019. Recycling for resource efficiency: A practical model for up scaling. *LEISA India* **21** (2): 33-36.
- Aparna, V. and Subramanian, P. 2019. Intercropping under coconut gardens- benefits and suitable intercrops for coconut plantation (Telugu). *Vjavyasaya Paadi Pantalu*, July, 2019, pp 22-23.
- Bansal N., Hebbar K.B. Praveen S., Ramesh S.V. 2019.



- Coconut oil-a treasure trove of health benefits amid controversies. *Scientific Indian*, **7**(4):4-6
- Bansal N., Vinutha T., Ramesh S.V., Praveen S. 2019. Lipids rich in medium chain triglycerides (MCTs): A panacea for healthy life. *Scientific Indian*, **7**(5):11-13
- Chandrika Mohan, Anoop, J.P., Parvathi, S. and Charles, D.M. 2019. Increase productivity of coconut by managing beetle attack. *Indian Naleekera Journal* **10**(8): 7-9.
- Chandrika Mohan, Kalavathi, S. and Haris, A.A. 2019. Get rid of coconut pests by integrated management. *Kerala Karshakan*, (In Malayalam) **65**(1): 21-24.
- Haris, A.A. Thomas, R.J., Josephraj Kumar, A. and Krishnakumar, V. 2019. Rainy season management for adult and juvenile coconut palms (In Malayalam). *Kerala Karshakan*, **64**(11): 36-38.
- Haris, A.A., Regi J. Thomas, Josephraj Kumar, A. and Krishnakumar, V. 2019. *Mazhakala Paricharanam*: Thenginum Thaikalilum Appropriate planting of coconut seedlings in Monsoon (In Malayalam). *Kerala Karshakan*, **64**(11): 35-36.
- Haris, A.A., Thomas, R.J., Josephraj Kumar, A. and Krishnakumar, V. 2019 *Mazhakala Paricharanam*: Thenginum Thaikalilum Appropriate planting of coconut seedlings in Monsoon (In Malayalam). *Kerala Karshakan*, **64** (11): 35-36.
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- Jissy George. 2019. Items ready for Onam: *Karshakashree*, **25**(9): 35-36.
- Jissy George. 2019. Value added products from honey. *Karshakashree*, **25**(5): 82.
- Jissy George. 2019. Value added products from jack seeds. *Karshakashree*, **25**(6): 70.
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- Kalavathi, S., Haris, A.A., Jacob Kurien and Anil Kumar, B. 2019. Climate Resilient Farming Techniques for Coastal Tracts (In Malayalam). *Kerala Karshakan* **65** (1): 16-18.
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- Lekha, G., Muralidharan, P. 2019. Bheema, the best among milky mushrooms. *Krisbi Jagaran*, **3**(7): 44-45.
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- Nihad, K. 2019. Mesmerizing gardens. *Krisbi Jagaran*, **3**(7): 34-36.
- Nihad, K. 2019. Bush Jasmine as a profitable farming enterprise. *Krisbi Jagaran*, **3**(6): 36-37.
- Nihad, K. 2019. Flower beds in ornamental gardening. *Krisbi Jagaran*, **3**(9): 20-23.
- Nihad, K. 2019. Mughal garden to miracle garden. *Krisbi Jagaran* **3**(8): 14-17.
- Nihad, K., Krishnakumar, V., Haris, A.A. and Bhat, R. 2019. Fodder as intercrop in coconut garden under mixed farming system. *Indian Coconut Journal* **62**(2): 20-22.
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- Panjavarnam, G., Parthiban, S., Subramanian P. and Ravi Bhat. 2019. Banana cv. Ney Poovan is potential intercrop in coconut plantation. *Indian Coconut Journal*, **62**(4): 24-26.



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- Rajkumar, Jagnathan, D., Shivaji Thube, Nagaraj, N.R. and Vinayaka Hegde and Ravi Bhat. 2019. Management of root grub in arecanut with entomopathogenic nematodes – A success story. *Indian Journal of Arecanut, Spices and Medicinal plants*, **20**(3):8-14.
- Samsudeen, K. and Thamban, C. 2019. Planting material production in coconut: status and strategies. *Indian Coconut Journal*, **62**(2): 5-11.
- Saneera, E.K., Najeeb, N., Suchithra, M. and Jose, C.T. 2019. "Adayavilayayi Kamuku (Malayalam)". *Farm Guide, Rashtra Deepika*, 72-86.
- Shameena Beegum, P.P., Jesmi Vijayan., Neema, M., Aparna V. 2019. Pookal Unakki Sookshikkunna Sangethika Vidya. *Kerala Karshakan*, **65**(2): 36-37.
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- Shameena Beegum, P.P., Manikanatan, M.R., Pandiselvam, R., Mathew, A.C., Hebbar, K.B. 2019. Vaividhyavalkaranathiloodo vijayammedam. *Indian Naliker Journal*, **10** (11): 20-22.
- Shareefa, M. and Thomas, R. J. 2019. Weird coconut seedlings. *Indian Coconut Journal* **57** (6): 18-20
- Sit A.K. 2019. Cultivation methods of Black pepper. The Uttarer Chasbas, The Anandabazar Patrika, 28<sup>th</sup> March, 2019. p 4.
- Sit A.K. 2019. Cultivation methods of Cocoa. The Uttarer Chasbas, The Anandabazar Patrika, 16<sup>th</sup> May, 2019. p 4.
- Sit A.K. 2019. Arecanut based cropping system. The Uttarer Chasbas, The Anandabazar Patrika, 20<sup>th</sup> June, 2019. p 4.
- Sit A.K. 2019. Management late blight of potato. The Uttarer Chasbas, The Anandabazar Patrika, Nov, 2019. p 4.
- Sit A.K. 2019. Scientific Onion cultivation. The Uttarer Chasbas, The Anandabazar Patrika, 1<sup>st</sup> January, 2020. p 4.
- Sit, A.K. 2019. Supari Vittik Mishra Chas (Arecanut based cropping system). *The Anonada Bazār Patrika*, 20<sup>th</sup> June, 2019. p. K4.
- Sit, A.K. 2019. Uttor Bonge Orthokori Cocoa Chash (Cocoa cultivation in North Bengal). *The Anonada Bazār Patrika*, 6<sup>th</sup> May, 2019. p. K4.
- Sivakumar, T. 2019. Collar rot in elephant foot yam. *Krishni Jagaran*. **3**(8):66-67.
- Sivakumar, T. 2019. Leaf eating caterpillars in elephant foot yam. *Karshakan*, **27**(8):70 and 106.
- Sivakumar, T. 2019. Plant a sapling for good mango to harvest. *Karshakan*, **27**(8):59-61.
- Sivakumar, T. 2019. Vegetable crop protection practices in summer season. *Karshakan*, **27**(4): 56-58.
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- Sivakumar, T. 2019. Mango fruit fly-integrated management. *Karshakan*, **27**(6): 49-50.
- Sivakumar, T., Rajeev, M.S., Sreelekshmi, V. 2019. Jacob's dilemma and KVK's dream. *Karshakan*, **27**(8): 62-63.
- Subramanian, P., Surekha, R., Bhat Ravi and Thamban, C. 2019. Fodder grass cultivation in coconut garden. *Indian Coconut Journal*, **62** (1): 17-19.
- Suchithra, M., Najeeb, N., Saneera, E.K. and Jose, C.T. 2019. "Choclatinte Madhuryam (Malayalam)". *Farm Guide, Rashtra Deepika*, 88-104.
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- Thamban, C. and Subramanian, P. 2019. Thenginthoppil June maasathile krishippanikal (in Malayalam). *Indian Naliker Journal*, **10**(5): 30-34.
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- Thamban, C., Subramanian, P., and Joseph Rajkumar. 2019. Cultivation practices for coconut –June. *Indian Coconut Journal*, **62**(1): 31-36.
- Thamban, C., Subramanian, P., and Joseph Rajkumar. 2019. Thenginthoppil May maasathile krishippanikal (in Malayalam). *Indian Naliker Journal*, **10**(4): 33-34.
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