

## **Bio-Data**

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Dr. Jayan P.R graduated in Agril. Engg. from Kelappaji College of Agricultural Engineering and Technology (KCAET) Tavanur in 1990, post graduated in Farm Power and Machinery in 1993 from KAU and Ph.D in Farm Machinery and Power in 2003 from TNAU, Coimbatore. He started his career as Asst. Engg. (Agri.) in the Dept. of Agriculture, Govt. of Kerala in 1993, later on appointed as Asst. Prof. (FPM) at KCAET in 1994. He is involved in teaching, research and extension activities. At present, he has the additional duties of the Assoc. Director of Research (Agril. Engg.) KAU, and Prof. & Head, Dept. of FMPE, KCAET, Tavanur. Also, he is the mentor of a Post Doctoral Fellow for the research entitled ‘Design and development of energy efficient electric 4-wheel drive 4-wheel steering platform for farm operations. He handled 8 courses for UG and 03 courses each for PG and Ph.D degree programmes. As a part of research works, he guided 15 UG and 10 PG, 04 Ph.D projects and associated as Advisory Committee member of Ph.D projects and several M. Tech (Agril. Engg) research works. The major project work carried out by him was on ‘Development of Innovative Farm Mechanization Package for Kerala’, for a financial outlay of Rs. 3.35 Crores, funded by State Planning Board, Govt. of Kerala. He was the Principal Investigator of other projects viz., ‘ICAR-Experiential learning for hands on training- Rs. 100 crores ICAR’ and ‘Sub-centre of excellence on agricultural mechanization’ and ‘Farm Machinery Testing Centre’. Through these projects, 15 innovative machines for paddy, coconut, vegetables and spices were developed. Introduced axial flow propeller pumps in Kole lands of Thrissur against the conventional, low efficient ‘petty and para’ pumping systems. He Published 6 books, 7 research articles in international journal, 29 national research journals and 3 technical bulletins, presented 4 papers in national seminars and conferences and 25 popular articles in agricultural magazines. Four technologies developed by him were included in the PoP (Crops 2016) of KAU and 6 technologies are recommended in the State Level PoP Workshop held at KAU on 4-12-2021. Technologies of 8 farm implements developed by him were transferred to the public and private manufactures for mass production and commercialization. Released 28 test reports of various agricultural machineries manufactured in India. He was the Member of Academic Council, KAU. At present, he is a member of the advisory committees of national journals and life member/ fellow of various scientific bodies. He attended one International training on agricultural machinery at Jinan, China. Three patents were granted: Patent No. 372003, dated July 15, 2021, for 'A POWER OPERATED FLOATING PADDY HARVESTER,' showcasing expertise in the design of agricultural

machinery; Patent No. 044150383, acknowledging the ingenuity in agricultural equipment with the creation of a BANANA SUCKER UPROOTING MACHINE, developed as an attachment to tractors; and Patent No. 044145490, awarded for the invention of a POWER OPERATED ROTARY COLEUS PEELING MACHINE. He received INAE - 2004 Award for my doctoral research work by the Indian National Academy of Engineering, New Delhi. Also received the 'Distinguished Service Award 2020' by ISAE, New Delhi for the Research, Development and Extension works in the field of Farm Machinery and Power Engineering. Received appreciation from the District Collector, Thrissur for the effective implementation of the axial flow propeller pumping system at 'Kadumpattu Padam Kole Padavu', Thrissur and from the Agrl. Production Commissioner, Govt. of Kerala for developing new technologies for the farmers of the State. In addition to these, appreciations were also received from the Hon'ble Vice Chancellors of KAU and General Council of KAU for the meritorious works of my professional achievements.