Contribution of Agricultural Engineering Research and Development in Production and Post Production Agriculture of India since Independence: Status and Future Perspectives







Harwah All



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ABSTRACT

The role of agricultural mechanization in production and post-production agriculture including that of livestock farming and aquaculture cannot be overlooked because, it facilitates timely completion of various unit operations, better utilization of inputs which provides better yield and higher production with no or minimum drudgery to the farm workers. Traditional agricultural tools and machines are now being replaced with improved energy-efficient equipment which utilizes renewable and nonrenewable energy sources in their operation. The likely future trend in agricultural mechanization by 2030 AD and beyond are use of Artificial Intelligence (AI) based remotely controlled unmanned vehicle/machine for tillage, sowing, irrigation, intercultural, chemical spray for plant protection, harvesting, and so on. As of now, the trend is for higher capacity and precision machinery, to be used on a custom hire basis or contract services. This trend has already been started and the Gol has already introduced a submission on agricultural mechanization. The level of processing from manual threshing and manual winnowing of food grain to multi-crop thresher to modern storage godown has been developed. The automated cleaning, grading, pulse milling, modernization of rice milling, cold storage, refrigerated storage, and advanced packaging system has been in place today. Agroprocessing centers in the production catchment need to be established and operated at panchayat and divisional (Tehsil) levels by following the principle of the circular economy. Also, for improving the field irrigation efficiency, the development in the irrigation tools/gadgets to shift from open channel to drip and sprinkler systems is highly desirable for saving water. Therefore, the use of renewable energy resources (especially solar and wind energy) for all such improvement could be an alternative to the exhaustive energy sources for sustainable growth and development of the agriculture sector.

<u>Agricultural Research For Development The Namulonge</u> <u>Contribution</u>

Shasha Hu

Agricultural Research For Development The Namulonge Contribution:

Agricultural Research for Development M. H. Arnold, 1976-08-26 Agricultural Research for Development M. H. Arnold, 1976-08-26 Agricultural Research for Development M. H. Arnold, 1976 **Agricultural Research for** Development Cotton Research Corporation, 1976-08-26 NAMULONDGE AGROMETEOROLOGY SOIL PRODUCTIVITY CROP PHYSIOLOGY ENTOMOLOGY PLANT PATHOLODY RESISTANCE BREEDING PLANT BREEDING THE NAMULONGE FARM THE APPLICATION OF AGRICULTURAL SCIENCE TO NATIONAL DEVELOPMENT **Breeding for Disease Resistance** R. Johnson, G.J. Jellis, 2013-03-14 There is an increasing need for an understanding of the fundamental processes involved in the mechanisms by which disease resistances are introduced into crop plants. This book provides a wide ranging coverage of the successes and failures of the classical techniques it describes the advances towards modern technology and addresses the problems of pathogen variation Crop plants that are considered include cereals wheat barley rice potatoes vegetables and soft fruits Annual Report - Plant Breeding Institute Plant Breeding Institute (Cambridge, England), 1976 Survey of Agricultural Economics Literature Lee R. Martin, 1992 Annual Report Plant Breeding Institute (Cambridge, Specificity in Plant Diseases R. Wood, 2012-12-06 A NATO Advanced Study Institute on Phytotoxins in England),1976 Plant Diseases was held in Pugnochiuso Italy in June 1970 It was concerned mainly with the chemistry and mode of action of substances toxic to higher plants which are produced by pathogenic bacteria and fungi The role of such substances in specificity was considered but largely in relation to host specific toxins In 1973 in light of the success of the 1970 Institute we decided to plan for another in 1975 and after discussion with col leagues during the Second International Congress of Plant Pathology we selected Specificity in Plant Diseases as the theme for the 1975 Institute Our chief reasons for the choice were that specificity is un doubtedly the dominant problem in plant pathology and that with the rapid increase during the last decade or so in the diversity and sophistication of biochemical techniques we should now expect during the next few years much more research on specificity and major ad vances in our understanding of the mechanisms that control it It seemed to us that a residential meeting with the advantages and status of a NATO Advanced Study Institute would do much to stimulate interest and research in this most important field The theme also had the merit of continuity with that of the 1970 Institute

Weed Management for Developing Countries Food and Agriculture Organization of the United Nations, 1994-01-01
Perspectives in World Agriculture Commonwealth Agricultural Bureaux, 1980 Principles of Plant Pathology J.
G. Manners, 1993-03-04 A comprehensive study of the causes of plant disease the processes involved in plant pathogen interaction the genetics of pathogenesis and the epidemiology of plant disease Includes an assessment of the application of our knowledge to practical plant disease control Egerton College Agricultural Bulletin , 1977 PANS. , 1977

Agricultural Research and the Rural Poor Stephen Biggs, John Farrington, International Development Research Centre (Canada), 1991 Review of recent trends in social science analysis of agricultural research identifying gaps in research and

outlining areas of high potential payoff to future research The major themes treated in the evolution of theory on the generation and diffusion of agricultural technology since the 1950s are reviewed A framework is constructed for setting research priorities including historical technological and institutional dimensions Examples in applying the framework are given and areas of high future payoff are identified An extensive bibliography arranged by theme is also included MSU International Development Papers ,1982 Working Paper ,1994 Africa's Agricultural Development in the 1990s Nathan C. Russell, Christopher R. Dowswell, 1992 Proceedings Royal Society of Edinburgh ,1992 Proceedings of the Royal Society of Edinburgh ,1992

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