



PREFACE

The 4th International Conference on Agribusiness and Rural Development (IConARD) 2023 was held virtually on 9-10 August 2023. This conference focused on "Global Environment Challenges In Agriculture."

Global climate change that affects global warming has been scientifically proven based on data trends of increasing temperature on earth. The increase in temperature based on trend data per hundred years from 1906-2005 shows that there was an increase in temperature nearly doubling in 1956-2005. This fact makes climate change a necessity as well as an issue of concern to the global community, including Indonesia. The influence of climate change on the agricultural sector in Indonesia is multidimensional, starting from resources, agricultural infrastructure, agricultural production systems, aspects of food security and self-sufficiency, as well as the welfare of farming households in general.

This influence has made changes to the agricultural sector which is very vulnerable to climate change because it affects cropping patterns, planting time, production, and yield quality. In addition, environmental changes will directly affect the supply chain of agricultural products, requiring integration with an environmental perspective into supply chain management including product design, selection and selection of sources of raw materials, manufacturing processes, delivery of final products to consumers and product management after expiration.

Adaptation at the farm household level in dealing with uncertain climatic conditions is determined by how many assets the household owns. Basically every household has adaptive capacity. However, the intensity of the power of adaptive capacity is largely determined by the number of assets controlled, especially agricultural land. The wider the agricultural land and assets controlled, the easier the adaptation efforts will be. This is because adaptation is closely related to the social and economic system it faces. Farm households must make improvements in the use and management of nutrients, pesticides, energy and water, using fewer of these inputs per unit of land. Farmers should make good progress in adopting practices that are more beneficial to the environment, such as conservation tillage, better fertilizer storage, or soil nutrient testing. Considering the importance of this issue, the 4th IConARD 2023 come up with the theme of Global Environment Challenges in Agriculture to provide a scientific forum that facilitate a mutual exchange of insights and discussion as well as prospective collaboration from highly diverse background.

This conference has participated by many researchers from Indonesia, Malaysia, Laos, Philippine, Thailand, Vietnam, Japan, South Korea, South Africa, Russia, and Kazakhstan. The diversity could bring various opinions about this concern issue. To ensure the published papers have high quality, the editorial board and reviewers of IConARD 2023 were experts in their related areas. The publications hope significantly contribute to increase the adaptation in global environment challange.

We would like to deliver big gratitude to all participants, keynote speakers, committees, and other parties that helped this conference.

Committee of IConARD 2023