Developing a framework for carbon footprint assessment for Indian agriculture scenario

K. V. Sruthi, Manoj P. Samuel, K. Naveena, U. Surendran, Santosh Onte and M. C. Sarathjith*

Accurate measurement of carbon footprint (CFP) is crucial for achieving carbon emission reduction goals. In India's agricultural carbon emission, a consistent and effective conclusion regarding the estimation method, sample selection and calculations of results does not exist. The present study introduces the main accounting method for agricultural carbon emissions in the Indian context, i.e. the customized methodologies based on the Intergovernmental Panel on Climate Change guidelines and International Organization for Standardization (ISO) standards. The present study highlights the critical need to standardize the CFP assessment methodologies following the ISO to obtain credible information for making sound decisions.

Keywords: Agricultural carbon footprint, customized IPCC-ISO method, emission inventory, measurement–reporting–verification, uncertainty.