



SMART-SIP+: Unlocking the Full Power of Solar Irrigation in Bangladesh

By Bangladesh Country Representative Dr. Chayan Kumer Saha

Bangladesh has emerged as one of Asia's most successful agricultural nations, achieving remarkable progress over the years. Despite covering only a fraction of the world's landmass, Bangladesh has carved out an extraordinary position in global food production. Agriculture contributes 11.2% to the national GDP and supports the livelihoods of millions of Bangladeshis across 8 divisions and 64 districts (BBS, 2024).

Despite these achievements, the underlying basis of this success is facing significant challenges. Cultivable land makes up just 54.4% of Bangladesh's area, and it is shrinking every year due to urbanization and industrialization. Meanwhile, climate change, recurring disasters, and a chronic rural labor shortage compound the challenge. Post-harvest losses tell a stark story: 14% of paddy is lost after harvest, while fruit and vegetable losses run between 20% and 37% (Hossain et. al., 2017). These are not just economic losses; they represent food that communities need.

To read the rest of the article, please visit the [website](#).

Precision Agriculture in Kenya: 2026 Country Update

By Kenya Country Representative Violet Ochieng'

Kenya continues to strengthen its position as a leader in precision agriculture in Africa through the adoption of digital technologies, drones, artificial intelligence (AI), remote sensing, Geographic Information Systems (GIS), and data-driven agricultural decision-making. In 2026, the country experienced significant developments in innovation, research commercialization, digital agriculture, and capacity building that are creating an enabling environment for the growth and scaling of precision agriculture solutions. The increasing integration of advanced technologies into agricultural systems is supporting efforts to improve productivity, climate resilience, resource-use efficiency, and food security while creating new opportunities for youth employment and agribusiness development.

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The joint 17th International Conference on Precision Agriculture (17th ICPA) and the 11th Brazilian Congress on Precision Agriculture (11th ConBAP) will be held from 13-16 July 2026 in Porto Alegre, Brazil

For additional conference information, please visit: ispag.org/icpa/conference

