



IRRI

INTERNATIONAL RICE RESEARCH INSTITUTE

RICE PROFILE IN BANGLADESH

13.6%
of Bangladesh's
GDP comes from
agriculture

75%
of cropped area is
rice

53.8 million
tons (4th-highest in the
world) is the current
paddy production

3.5 times
increase in production
in last 50 years

85%
of cultivated area is
under high-yielding
rice varieties

186 million
population by 2030
will depend on rice

KEY RESEARCH AREAS

Breeding for both **improved** inbred and hybrid rice varieties (short duration, high-yielding, optimal grain quality)

Healthier rice varieties enriched with Vitamin-A, Iron and Zinc

Climate change adaptation, mitigation and resilience with stress-tolerant varieties and climate smart agriculture

Sustainable intensification and diversification of rice-based cropping systems for better nutritional outcomes

Resource use efficiency and adoption of environmentally sustainable technologies

Socioeconomic solutions in regard to **rice value chain, market, gender, youth, and policy**

Capacity Building on rice-based agri-food systems

Promoting **mechanisation and ICT** in agriculture

IRRI'S CONTRIBUTION



80% of released rice varieties in Bangladesh have IRRI genetic materials



110,000+ scholars and short-term trainees trained by IRRI in 55 years



7,000+ Bangladeshi rice accessions conserved in IRRI Genebank



15-30% reduction in water consumption using IRRI's water-efficient technologies



4.6 t/ha yield in 2019 compared to 1.7 t/ha rice yield since 1971



Mechanised farming uptake by farmers on the rise

TIMELINE

- 1965** IRRI starts work in Bangladesh; 303 rice varieties tested
- 1967** First widely-distributed, semi-dwarf HYV rice IR8 introduced
- 1975-2019** National paddy production increased by 3.5 times
- 2017** Severe floods damaged 10% of rice yield and price rose by 25%
- 2017-18** Over 54m tons of paddy produced (4th-largest rice producer in world)
- 2018** IRRI and Government of Bangladesh co-develop the 5-year Work Plan



5-YEAR WORK PLAN

IRRI's 5-year work plan (developed in 2018 with government and partners) had the following priorities:



Superior, climate-smart, hybrid and healthier rice varieties



Improving productivity and resilience of coastal agriculture



Sustainable intensification and diversification of rice based production systems



Mechanisation and post-harvest technologies



ICT in agriculture



Rice value chain, gender, youth and policies



Capacity development

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IRRI aims to improve livelihoods and nutrition, abolishing poverty, hunger, and malnutrition among those who depend on rice-based agri-food systems. In doing so, IRRI's work protects the health of rice farmers and consumers, and the environmental sustainability of rice farming in a world challenged by climate change. IRRI's work promotes the empowerment of women and supports opportunities for youth in an equitable agri-food system