

CHAPTER 8

Next-Generation Climate-Resilient Agricultural Technology in Traditional Farming for Food and Nutritional Safety in the Modern Era of Climate Change

AKBAR HOSSAIN^{1*} SAGAR MAITRA², SOURAV GARAI³,
MOUSUMI MONDAL⁴, ASGAR AHMED⁵, MST. TANJINA ISLAM⁶, and
JAGAMOHAN NAYAK⁷

¹*Bangladesh Wheat and Maize Research Institute, Dinajpur-5200, Bangladesh*

²*Department of Agronomy, Centurion University of Technology and Management, Paralakhemundi 761211, India*

³*Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Nadia, West Bengal, India*

⁴*Research Scholar, Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal, India*

⁵*Maize Breeding Division, Bangladesh Wheat and Maize Research Institute, Dinajpur-5200, Bangladesh*

⁶*Department of Agronomy, Hajee Mohammad Danesh Science and Technology University, Dinajpur 5200, Bangladesh*

⁷*Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Nadia, West Bengal, India*

**Corresponding author. E-mail: akbarhossainwrc@gamil.com.*

ABSTRACT

It is predicted that the population across the globe is approaching to 9.5 billion by the year 2050. Therefore, sustainable food and nutritional safety are the foremost encounters of the 21st century. Human activities are largely