## **Growth, Poverty and Developmental Aspects of Agriculture**

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# Growth, Poverty and Developmental Aspects of Agriculture: Countries' Perspectives

**EDITED BY** 

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In memory of my colleagues Dr Kamal Ray and Sanat Kumar Chakraborty This page intentionally left blank

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#### **List of Abbreviations**

Chapter 1
ARDL

Auto Regressive Distributed Lag

DEA Data Envelopment Analysis

FAO Food and Agriculture Organization

FDI Foreign Direct Investment

ICU India, China and United States of America

NGO Non-Government Organization

TMEC Tratado entre México, Estados Unidos y Canadá

USCM United States-Canada-Mexico

Chapter 2

ATMA National Mission on Agriculture Extension

DAM Digital Agriculture Mission
DEA Data Envelopment Analysis
DMU Decision Making Unit

EMDE Emerging Market and Developing Economy

FPO Farmer Producer Organizations

GATT General Agreement on Tariffs and Trade

MSP Minimum Support Price

NABARD National Bank for Agriculture and Rural Development

PMFBY Pradhan Mantri Fasal Bima Yojana PMKISAN Pradhan Mantri Kisan Samman Nidhi

RWBCIS Restructure Weather Based Crop Insurance Schemes

SFA Stochastic Frontier Analysis

TE Technical Efficiency

WTO World Trade Organization

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Chapter 3

ABP Anchor Borrowers' Programme

ACGSF Agricultural Credit Guarantee Scheme Fund

AGDP Agricultural Gross Domestic Product

ALAB Agricultural Labour
ALAN Agricultural Land Area
AMACH Agricultural Machinery

ARDL Auto Regressive Distributed Lag

BF Bank Financing

CACS Commercial Agriculture Credit Scheme

CBA Commercial Bank's loan to the Agricultural sector

ECM Error Correction Term
FDI Foreign Direct Investment

FMARD Federal Ministry of Agriculture and Rural Development

FSD Financial Sector Development

GDP Gross Domestic Product

INT Interest Rate

NIPC Nigerian Investment Promotion Commission

Chapter 4

ARDL Auto Regressive Distributed Lag

BP British Petroleum CO2 Carbon Dioxide

CO2E Carbon Dioxide Emission

CUSUM Cumulative Sum

ECM Error Correction Model

EKC Environmental Kuznets Curve

FAO Food and Agriculture Organization

FC Forest Coverage

FDI Foreign Direct Investment

FDI\_AGR FDI Inflows in Agriculture Sector

GHG Greenhouse Gas

GtCO2 Gigatonnes Carbon Dioxide

ICU India, China and United States of America

IPCC Intergovernmental Panel on Climate Change

Ln Natural Log

MEA Millennium Ecosystem Assessment

OECD Organization for Economic Cooperation and

Development

REC Renewable Energy Consumption SDG Sustainable Development Goals

TEEB The Economics of Ecosystems and Biodiversity

UN United Nations

USA United States of America

US United States

VECM Vector Error Correction Model

VEC Vector Error Correction

VA\_AGR Value Added in Agriculture Sector

WPP World Population Prospects

Chapter 5

AMEG Mexican Association of Livestock Fattening

GDP Gross Domestic Product

NAFTA North American Free Trade Agreement

TMEC Tratado entre México, Estados Unidos y Canadá

USCM United States-Canada-Mexico

Chapter 6

AGROSE Agrupación Española de Entidades Aseguradoras de los

GURO Seguros Agrarios Combinados, Spain

AUSAID Australian Agency for International Development

AUTP Asuransi Usaha Tani Padi, Indonesia
CCIS Comprehensive Crop Insurance Scheme

CNY Chinese Yuan Renminbi

CPIS Coconut Palm Insurance Scheme
ECIS Experimental Crop Insurance Scheme

FIIS Farm Income Insurance Scheme

FNGCA National Agricultural Disaster Fund, France
JICA Japan International Cooperation Agency

MNAIS Modified National Agricultural Insurance Scheme

MPCI Multi-Peril Crop Insurance

NAIS National Agricultural Insurance Scheme

NBS Nature Based Solutions

NCIP National Crop Insurance Programme
NDVI Normalized Difference Vegetation Index

NGO Non-Government Organization NTB Negusa Tengara Barat, Indonesia PCIS Pilot Crop Insurance Scheme

PICC Peoples Insurance Company of China PMFBY Pradhan Mantri Fasal Bima Yojana

PPP Public-Private Partnerships

PROAGRO Programa de Garantia da Actividade Agropequária,

Guarantee Programme for Agricultural Activities, Brazil

PRONAF Programa Nacional de Fortalecimento da Agricultura

Familiar, Brazil

PSSCI Pilot Scheme on Seed Crop Insurance

SEAF Seguro da Agricultura Familiar, Insurance for Family

Agriculture, Brazil

USD United States Dollar

UT Union Territory

WBCIS Wather Based Crop Insurance Scheme

Chapter 7

AIC Akaike (1969) Information Criterion
GARCH Generalized Autoregressive Conditional

Heteroscedasticity

MGARCH Multivariate Generalized Autoregressive Conditional

Heteroscedasticity

ARCH Autoregressive Conditional Heteroscedasticity

MANOVA Multivariate Analysis of Variance

RML Reuters Market Light

Chapter 8

AIBP Accelerated Irrigation Benefit Programme

ANOVA Analysis of Variance

NPK Nitrogen, Phosphorus, and Potassium

RBI Reserve Bank of India

TFPG Total Factor Productivity Growth

Chapter 9

CDMP Comprehensive Disaster Management Programme

CPP Cyclone Preparedness Programme
DMB Disaster Management Bureau

DM Disaster Management
DRR Disaster Risk Reduction

ERM Emergency Response Management

FAP Flood Action Plan

FGD Focus Group Discussion

GR Gratuitous Relief

LGIs Local Government Institutions

MoDMR Ministry of Disaster Management and Relief

NDMC National Disaster Management Council

NGO Non-Governmental Organization

NPDM National Plan for Disaster Management

OMS Open Market Sale

SOD Standing Orders on Disaster SSNP Social Safety Net Programs

SPSS Statistical Package for the Social Sciences

UP Union Council

VGD Vulnerable Group Development

VGF Vulnerable Group Feeding

Chapter 10

ADF Augmented Dickey-Fuller
ARDL Autoregressive Distributed Lag

ECT Error Correction Term

FAO Food and Agriculture Organization

OECD Organisation for Economic Co-operation and

Development

PP Phillips-Perron

#### xvi List of Abbreviations

VAR Vector Autoregressive

VECM Vector Error Correction Model

Chapter 11

ASHA Accredited Social Health Activist
CAGR Compound Annual Growth Rate
CSAPs Climate-Smart Agricultural Practices

DAC & FW Department of Agriculture, Cooperation and Farmers

Welfare

DES Directorate of Economics and Statistics FAO Food and Agriculture Organization

GDP Gross Domestic Product
GHI Global Hunger Index
GVA Gross Value Added

ICDS Integrated Child Development Services

Kg Kilograms

MGNREGA Mahatma Gandhi National Rural Employment Guar-

antee Act

MT Million Tonnes

NABARD National Bank for Agriculture and Rural Development

NFSA National Food Security Act
PDS Public Distribution System

PMGKY Pradhan Mantri Garib Kalyan Yojana

PPP Public Private Partnership R&D Research & Development

RFID Radio Frequency Identification

SEZ Special Economic Zones

TISM Total Interpretive Structural Modelling
TPDS Targeted Public Distribution System

WFP World Food Programme
WFS World Food Summit

Chapter 13

ACC Accessibility

ADF Augmented Dickey-Fuller

AFF Affordability

ARDL Autoregressive Distributed Lag Model

AV Availability

AWW Agricultural Wage of Women Worker

CI Cost of Education

CV Coefficient of Variation
DFE Difference Fixed Effect
ECM Error Correction Model

EPWRF Economic and Political Weekly Research Foundation

FAO Food and Agricultural Organization

IBRD International Bank for Reconstruction and Development

KMO Kaiser-Meyer-Olkin

MDFSI Multidimensional Food Security Index

MG Mean Group

NFHS National Family Health Survey

NIA Net Irrigated Area

NSDP Net State Domestic Product

NSSO National Sample Survey Organization

PCA Principal Component Analysis
PCE Per Capita Electric Consumption

PMG Pooled Mean Group RBI Reserve Bank of India

SDG Sustainable Development Goals

STA Stability

TLR Total Length of the Road

UNDP United Nations Development Programme

WFPR Workforce Participation Rate

Chapter 14

ADB Asian Development Bank

BHA Bureau for Humanitarian Assistance
UNDP United Nation Development Programme

USAID United States Agency for International Development

#### xviii List of Abbreviations

#### Chapter 15

SDG Sustainable Development Goal
GSDP Gross State Domestic Product
FINP Food Insecure but Non-Poor

FSP Food Secure but Poor FIP Food Insecure and Poor

FSNP Both Food Secure & Non-Poor MPI Multidimensional Poverty Index

OLS Ordinary Least Squares

HCR Head Count Ratio

#### **About the Editor**

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#### **Foreword**

In an era defined by rapid technological advancements and shifting global dynamics, the importance of agriculture remains undiminished. It is both the foundation of economies and the frontline in the battle against poverty and food insecurity. This makes *Growth, Poverty and Developmental Aspects of Agriculture: Countries' Perspectives*, edited by Professor Ramesh Chandra Das, a timely contribution to the ongoing dialogue on how agriculture can continue to fuel development, sustain populations and alleviate poverty across various regions, particularly in developing and emerging countries. Professor Das, along with a distinguished panel of contributors, provides a compendium of research that navigates through the multifaceted role of agriculture in economic growth and development. The book is structured in two insightful sections, with the first focusing on the growth dynamics of agriculture and the latter delving into the intertwined issues of poverty, food security and development.

The relevance of this book cannot be overstated. At a time when global food security faces threats from climate change, political instability and economic disparities, the studies contained within offer crucial insights. The research not only assesses current agricultural practices and their efficiencies, such as in the production of food grains across Indian states and the sustainability of agricultural growth in Pakistan, Bangladesh, Nigeria like countries and G20 Groups, but also addresses complex global issues like food price volatility and the economic theories surrounding food production and security.

What sets this book apart is its global perspective, capturing experiences from Nigeria, Mexico, Pakistan and India, among others, along with several groups of economies. Each chapter contributes to a richer understanding of the local challenges and solutions that define agricultural growth and its impact on poverty reduction and food security. For instance, the investigation of agricultural exports under renegotiated trade agreements offers a keen look at how international policies influence local agricultural practices and outcomes. The timing of this publication is particularly significant. As nations grapple with the Sustainable Development Goals (SDGs), understanding the link between agricultural practices and poverty alleviation is critical. This book not only contributes to academic and policymaking discourses but also serves as a vital resource for stakeholders aiming to forge a path towards sustainable agricultural practices that

#### xxviii Foreword

support economic growth and ensure food security. Emerald Publishing should be commended for bringing such a crucial piece of scholarly work to the public, aiding in the dissemination of knowledge that could very well dictate the quality of life and economic stability for billions of people worldwide.

Hasan Dincer

#### **Preface**

It is still verifiable that the agricultural sector has been the vivacious decider within the progression of a country, indeed within the period of technological advancements. With the presentation of innovative headways within the sector, most of the nations from the south are currently experiencing greater well-being, less poverty and destitution and food security. The impacts got boosted when the universal exchange perspective of the division was taken into consideration. Assisted by the development of agrarian yield, numerous nations of the world have made it conceivable to diminish the wage crevices between the less created and the created nations through wage joining. Having a critical share in add up to yield of an economy, its instability in production, abdicate rates, costs, etc. may moreover cause the same for the full economy. Consequently, solidness issue along the related agro-variables gets to be one of the critical plans of the present research attempt.

Under the milieu, the present edited book titled *Growth, Poverty and Developmental Aspects of Agriculture: Countries' Perspectives* throws light upon compiling studies related to the growth, stability, crop insurance, poverty and food security aspects of the agricultural growth in the countries and groups, especially from the developing world.

The book is compiled of 15 chapters which are divided into two broad sections. Section I covers the growth aspects of agriculture across the countries and groups, containing eight chapters including this introductory chapter, and Section II captures the studies related to the poverty, food security and developmental aspects of agriculture across the countries and groups covering seven remaining chapters.

The summary observations are that the countries have improved their growth in the agricultural sector leading to food insecurity and poverty reductions that helped in the overall development of the citizens. The institutional factors such as credit, insurance, irrigation and good governance have instigated the growth process of the sector. Besides the glorious achievements, the sector has faced fluctuations and instability in its production and productivity in several crops at the country as well as regional levels, which lead to hurdles in achieving sustainability in the sector. In addition, in some regions of India, it was observed that the non-poor section of the society is relatively less food-secured compared to the poor section of the society, making the social imbalance in the reverse directions. Thus, the overall impression from the book is that the governments of the countries, states and local regions should come forward with proper governance

#### xxx Preface

and institutional facilities to overcome the sustainability problems arising out of the agriculture sector.

The contents of the book may provide thought-provoking solutions to the existing problems of growth, poverty, food security and overall developmental issues of the agriculture sector, and there may be the possibilities of value addition to the existing literature in this area. Readers and policymakers will benefit immensely from the contents of the book.

While carrying out the book project, the editor got tremendous support from different corners of the academic and social world. The editor acknowledges the support of the entire Emerald Team, the contributing authors and the Foreword writer. In addition, the editor is indebted to his parents, wife, daughter and other members of the family for their sacrifice and support to unveil the title. However, the editor is solely responsible for any error still left in the book.

Ramesh Chandra Das