Spatio-Temporal Analysis of Crop Combination and Productivity in Purba Barddhaman District, West Bengal

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Abstract: The state of West Bengal has obtained top position in India for the highest quantity of paddy production. Besides, undivided Barddhaman district is known as the "rice bowl" of the state for extensive cultivation of this crop. Since 2017, eastern part of the district is known as East Barddhaman district and is more productive than the West Barddhaman district in terms of agriculture. After Green Revolution in India, modern inputs, the change in crop combination, crop rotation etc. have increased the agricultural productivity of the district but not uniformly. In this context, block level changing scenario obtained from spatio - temporal analysis of crop combination, using Weaver's method and from the analysis of productivity of major crops, using Shafi's technique of Overall Yield Index of the area under present East Barddhaman district, from 2004-05 to 2016-17, is highlighted. It reveals the more improvement of peripheral C. D. blocks than those of core area in the district.

Key Words: Crop combination, crop rotation, green revolution, overall yield index, productivity

Introduction

Agriculture is one of the most important primary sectors of India and is highly dependent on geographical as well as socio- economic factors. Geographical factors most importantly create a foundation for manipulated socio-economic background and affect various aspects of agricultural activity both directly and indirectly (Singh and Dhillon, 1984).

According to De (1990) the district as a whole, has a good geographical background, providing fertile alluvial soil with a complex network of various rain-fed rivers originating from Chotanagpur plateau in the west. Though the impact of a few physical constraints, such as lateritic soil, rugged terrain, scarcity of water in dry season etc. decrease from west to east in the region, the Purba Barddhaman is more engaged in agricultural pursuits than the western part (De, 1990). However, labelling the district by "rice bowl" is good for many aspects but not for all. Too much emphasis on rice production is not healthy crop culture in the long run. So, diversification in crop combination is needed for consideration. This helps for betterment of productivity by providing opportunities

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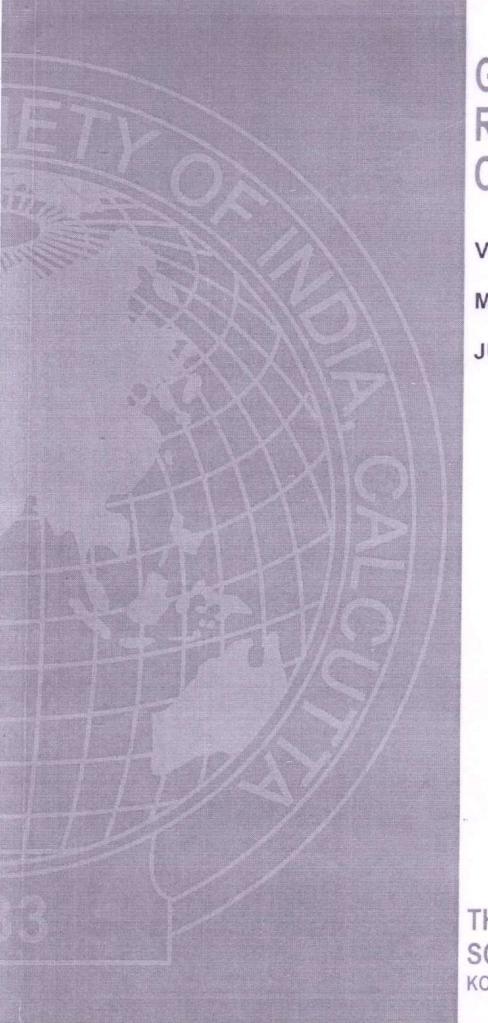
Numbers 1 & 2

March & June, 2022

CONTENTS

Articles	Authors	Page No.
TOURISTSCAPE OF COMMUNITY-BASED RURAL TOURISM: A LONGITUDINAL STUDY ON MANIRAM VILLAGE OF SIKKIM, INDIA	Arunima Karali Subhajit Das	1
IDENTIFICATION AND ASSESSMENT OF ECO- TOURISM POTENTIAL VILLAGES IN ECO-SENSITIVE ZONE OF NORTHERN PART OF THE WESTERN GHATS, MAHARASHTRA	Ravindra G. Jaybhaye, Yogesh P. Badhe Rahul M. Kapurkar Kajal Sawkare	17
GENDER-PARTICIPATION IN SCHOOL EDUCATION DURING 2012-13 TO 2019-20 IN WEST BENGAL	Sipra Biswas Kallol Sarkar	33
WOMEN IN POST-CONFLICT SITUATIONS: EXAMINING HEALTH AND SOCIO-ECONOMIC CONDITIONS IN THE BODOLAND TERRITORIAL REGION, ASSAM	Rajashree Borah	51
SPATIO-TEMPORAL ANALYSIS OF CROP COMBINATION AND PRODUCTIVITY IN PURBA BARDDHAMAN DISTRICT, WEST BENGAL	Souvik Kundu Suradhuni Ghosh	68
PROBABILITY OF CHOICE OF TRANSPORT MODES USING MULTINOMIAL LOGIT MODEL: A CASE STUDY OF KOLKATA, INDIA	Debasish Kundu Eshita Boral	84
CHANGING PATTERN OF GAMES IN RURAL BENGAL OVER THE PAST FIVE DECADES: A CASE STUDY OF BENABENDI VILLAGE IN BANKURA DISTRICT	Suvasree Dutta (Dasgupta Lakshmi Sivaramakrishna	
SEARCH FOR AN ALTERNATIVE TO PROTECT THE RIVER EMBANKMENT FROM THE CYCLONIC AND TIDAL SURGES IN SUNDARBANS	H M Kutub Uddin	119
OBITUARY: PROFESSOR M.K. BANDYOPADHYAY	Sunando Bandyopadhyay	137

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