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ORIGINAL RESEARCH ARTICLE



The cost-benefit analysis and constraints of pineapple production in Bangladesh

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ABSTRACT

The main purpose of the study was to estimate the profitability of pineapple production in Sreemangal, Moulvibazar District. Structured questionnaires and face to face interviews were done to collect raw data from 100 pineapple farmers during harvesting season. These farmers were chosen using a multi-stage sampling approach. Net return analysis, Benefit-Cost Ratio, and Kruskal-Wallis One Way Analysis of Variance (ANOVA) were used to analyze the prepared data. Findings from net return analysis showed that pineapple production was a profitable activity in the study area. The total cost of production was Tk. 740,767 and the total return was also substantial, resulting in a net return of Tk. 501,445 for pineapple production. The Benefit-Cost Ratio (BCR) was 1.48, indicating that pineapple farming was profitable for the farmers. However, the study also discovered several constraints perceived by the farmers that hindered pineapple production. These constraints included issues like animal damage, lack of credit availability, natural calamities, labor supply shortages, expensive fertilizer, inadequate storage facilities, and poor seed quality. By mitigating these constraints, pineapple productivity may rise not just in the study area but also in other regions of Bangladesh where the fruit is grown intensively. Thus, this improvement could significantly contribute to the well-being of farmers and enhance their disposable income.

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INTRODUCTION

Bangladesh, a lower middle-income country with significant reliance on agriculture (FAO, 2023; Polas, 2013), has seen a recent decline in the agricultural sector's contribution to GDP. Nevertheless, a substantial portion of its population is engaged directly or indirectly in agricultural activities for sustenance. Historically, agriculture accounted for more than 50% of GDP, but as industrialization took hold, economic activities diversified across sectors. Consequently, the agriculture sector, encompassing crops, livestock, fisheries, and forestry, now contributes

about 11.66 % (FY 2021-22) to the total Gross Domestic Product (GDP) of the country. According to the provisional report of Quarterly Labor Force Survey 2022 this sector accommodates around 45.33% of total labor force (BBS, 2022). Notably, Bangladesh's GDP experienced a growth of 0.6 percentage points, reaching 7.1% in FY 2016 from 6.5% in FY 2015 (BBS, 2016). Despite this change, agriculture continues to be important in Bangladesh, contributing significantly to macroeconomic goals including creating jobs, reducing poverty, developing human resources, and ensuring food security. Recognizing this, the government has given agriculture first

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