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*Two Days National Conference on*  
**Two Days National Conference on**

**“CHALLENGES OF INDIAN ECONOMY AND SUSTAINABLE  
DEVELOPMENT”**

*Organized by*  
**Department of Economics**

**Department of Economics &  
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**Analysis of Technical Efficiency in Agriculture Production: Using Cobb Douglas  
Production Function**

**ABSTRACT**

Agriculture is the most vulnerable sector to climate change, owing to its sensitivity to precise weather parameters and likely economic impacts. The changes in climatic events such as temperature, rainfall and atmospheric carbon dioxide (CO<sub>2</sub>) can significantly affect crop yields. To improve the crop production had also adopt the modern methods of cultivation like inputs such as improved seeds, agro-chemicals and irrigation, and agronomic practices could potentially reduce instability in agricultural growth caused by changes in the weather conditions, insect-pests and diseases helps agricultural growth was an result of widespread adoption of modern technologies. The specific objectives of the study is to find out the technical efficiency in agriculture production in selected study block and to analyze the socio economic and technical efficiency in selected study block. The study relied heavily on primary data, while the farm households were chosen by using multistage systematic stratified sampling approaches. The study was used appropriate statistical tools of average Production function and technical efficiency. The analysis of the technical efficiency is indicated that there is a considerable scope to improve the productivity of levels of selected with the existing level of input use and the available technology. One policy implication from the study is that strengthening of extension and educating the farmers may improve the efficiency of the farmer which would lead to increased productivity and augment agricultural production.

**Key Words: Agriculture Production, Technical Efficiency, Average production, Policy implications.**

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