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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 &
Dr. Ambedkar Studies Centre**



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Impact of Climate Change on Agriculture in Selected Study Blocks

ABSTRACT

Agriculture is the backbone of Indian economy and affords sustenance and livelihood security of the Indian population. Agriculture will also be impacted due to climate changes where India will also initiate to experience additional cyclical deviation in temperature with more warming in the winters than summers and also affect agriculture production. The specific objectives of the study is to find out the cropping pattern in selected study blocks and to analyze the impact of climate change on agriculture sector in selected study blocks. 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 scaling technique and factor analysis. The study resulted that the variables monsoon failure, less yield, low quality, soil erosion was highly influencing variable in agriculture production, where KMO statistics is 0.712 is signifying higher than acceptable adequacy of sampling. Bartlett's test of Sphericity has also found to be a significant one per cent level. The study concluded that the climate change had made severe adverse effects on farming sector and it is necessary to be tackled with the joint efforts of the policy of government, people's participation and also society.

Key Words: Climate change, Agriculture scenario, Factor analysis and Role of Government.

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