

## Climate – Smart Agriculture: Importance in Indian Agriculture

Nikita Sharma, Sakshi Rana, Naleeni Ramawat and Gaikwad D. S.

Amity Institute of Organic Agriculture, Amity University, Noida (U.P.), India.

### SUMMARY

In this article we are more focus on the climate-smart agriculture (CSA) is an approach to effectively respond to the changing climatic condition and make adaptation in the strategies of agriculture sector in such a way that climate could not affect the agriculture practices. Sustainably increase agricultural productivity and incomes and adapt and build resilience to climate change also reduce and/or remove greenhouse gas emissions.

### INTRODUCTION

Due to limited natural resources availability, agriculture production system facing huge competition from other sector. The main reason behind this competition for natural resources is due to the unsustainable management practices which also degrade the quality of resources and also due to changing climatic and weather conditions. To avoid this competition , the agriculture sectors have to make some changes in the strategy to improve their sustainability performance and also adapt with the changing climate and weather condition in a way that do not affect global efforts to ensure food security for all. These challenges are directly or indirectly related to each other and need to be addressed at the same time.



(Source: medium.com)

### Climate – Smart Agriculture

The most challenging issue which we are facing in the present scenario are – climate change, increased frequency of extreme weather events like floods, drought and storms. The only solution of this problem is to get adapted when it comes to CSA. We need to get involved into more sustainable food system strategy and diminish the effect of climate change and also get adapted to the climate and weather changes. For the communities that are facing food-insecurity or significantly susceptible to climate change should use adaptation as a key, and many of the changes should be made to enhance resilience which ultimately increase productivity and potency of inputs like fertilizer and water use. The climate-smart agriculture approach seeks to cut back multiples trade-offs and encourage interactions to make crop and livestock systems, forestry, and fisheries and aquaculture more sustainable. CSA is not a new agricultural system or practices, it is just an advanced approach to make the

agricultural system more sustainable and productive in the modern era, and also it contributed to the climate change adaption. Climate-smart agriculture is an approach which helps to guide actions which are being useful for transforming agricultural system. The area like fields, forests, oceans and freshwater ecosystems are being subjected for adapting CSA, it also helps the stakeholders from locals to identify the different strategies according to their local conditions.

The Climate-smart agricultural systems include several elements given below:

- The managing of landscapes - crops, livestock, aquaculture and capture fisheries to balance the food security and livelihoods needs with priorities for adaptation and mitigation;
- To conserve ecosystem services, the use of Ecosystem and landscape supervision can be implementing as it is important for food security, agricultural systems, adaptation and mitigation.
- By providing Facilities for the farmers and land managers which can allow them to manage the risks and effects of climate change and take mitigation actions on it.

The Government and different partners are funding or providing the foundation for working the CSA smoothly across the agricultural systems. By enhancing the finance system it directly supports the implement, which are linking with climate. The major initiative for enhancing the climate smart agriculture is done in September 2014, in which the UN secretary General announces the new policies under the Global Alliances for climate smart Agriculture.

## CONCLUSION

After the brief discussion on the above topic we are concluded that climate-smart agriculture help to increase the agriculture productivity and income in comparison with the conventional agriculture because they are affected by climatic condition so climatic smart agricultural crops are get adapted to the ever-changing climatic condition as well as reduce or remove the harmful gas emission through greenhouse.

## REFERENCES

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