



## **Impact of Climate Change on Farming and Farmer's Suicide: Special Reference to Maharashtra State**

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### **Introduction:-**

India is an agricultural based country. Agriculture is the main occupation of nearly 70 percent of the peoples even today; we are also dependent on agriculture. Indian agriculture is completely dependent on the environment or nature. The continuous changes in the environment have had a profound impact on agricultural production.

There are a large damage and loss of farmers due to sometimes dry and sometimes wet drought. Sometimes due to good weather condition, production was much higher, however, prices decreased when in the market goods increased. Therefore, farmers have to throw away their goods sometimes. 'Climate change' and 'agriculture' are closely related to each other which are due to the fact that weather is a phenomenon in agricultural production. Temperature rise impact on the field of agriculture, 'change in rainfall' increasing the amount of carbon and the increasing frequency of natural factors. As the temperature raises, its effects on crops, such as the crop growth cycle, the crop season, and the crop area affect it. Due to such various factors, the farmer is in distress and takes a decision towards suicide.

### **Objectives**

- 1) Understanding what climate change is
- 2) Studying climate change and agricultural sector relations
- 3) Finding the cause of farmers' suicides
- 4) Studying the nature of farmers' suicide in Maharashtra



## **Hypothesis**

- 1) Climate change has a great effect on agriculture
- 2) Agriculture is completely dependent on nature

## **Research Methodology**

In this research, the analytical method has been used and there is the explanation of the research is dependent on the secondary content. Books, Magazines, Newspapers, websites and various texts used for this research

## **Discussion**

Climate change is a major problem all over the world and this has resulted in the new crisis in front of farmers. And one more new crisis in front of the farmers living in the midst of the crisis is that of 'climate change' and 'farmer suicides'. Climate change is changing due to global warming. Has an adverse effect on various lifespan due to Climate change. Therefore, the climate change appears to be affecting the agriculture sector. The gradual increase in the average temperature of the Earth's surface was due to the increase in the total amount of greenhouse gas in the atmosphere, which is called global warming or climate change. Facing problems of agricultural business are as follows

- 1) Global warming
- 2) Greenhouse effect
- 3) Increasing radiation of carbon dioxide
- 4) Ozone layer depletion
- 5) Impact of diseases and pesticides due to climate change
- 6) Impact on water resources due to climate change

Due to the above factors, there is a huge impact on the agriculture sector

## **Farmers' Suicide in Maharashtra State:**

Maharashtra is the third largest state in terms of area and second most populated state in India. The financial condition of farmers of Maharashtra is deteriorating. There are many problems in agriculture in Maharashtra, from the beginning. The problem of poverty, inequality, natural calamities, etc. has to be addressed, but due to the neglect of

agriculture in recent times, the process of development of the agriculture sector has slowed down and this has caused many challenges to the farmers. Numbers of farmers' suicides in Maharashtra can be explained in the following table.

Table 1

**Farmer's Suicide in Maharashtra (1995-2017)**

Sr. No	Year	Farmers' Suicide in Maharashtra	Sr. No	Year	Farmers' Suicide in Maharashtra
1	1995	1083	13	2007	4238
2	1996	1981	14	2008	3802
3	1997	1917	15	2009	2872
4	1998	2409	16	2010	3141
5	1999	2423	17	2011	3337
6	2000	3022	18	2012	3786
7	2001	3536	19	2013	3146
8	2002	3695	20	2014	2568
9	2003	3836	21	2015	3228
10	2004	4147	22	2016	3052
11	2005	3926	23	2017	2471 October 2017
12	2006	4453	Total		72015

Source: Government reports and newspaper cuttings

The observation of the given table 1 shows that farmers' suicide in Maharashtra does not appear to be very low. The above table clearly shows that in the period 1995 to October 2017, 72015 farmers committed suicide in Maharashtra. The above table clearly shows that in the period 1995 to October 2017, 72015 farmers committed suicide in Maharashtra. However, the lowest percentage of this was 1083 in 1995. This means that the Maharashtra state, which is considered by the industrial sector, celebrates the Golden Jubilee year, however the highest number of suicides in the Maharashtra state. Our well-governed government is making a substantial provision in the budget for the industrial sector while the agriculture point of view is farmers ending



his life. That is why this matter is clear inequality for the overall development of the state of Maharashtra.

### **Causes of farmer's suicide**

- 1) Due to lack of suitable prices for the produce,
- 2) Due to the debt burden of two farmers
- 3) Lack of grant
- 4) Lack of irrigation facilities
- 5) Addiction
- 6) Lack of ventures related to agriculture sector
- 7) Changing weather and other natural changes
- 8) Continuous Nupicy
- 9) Due to smallholding farming\ Farmers' hypocrisy
- 10) Increasing effect of lending of private lenders

### **Conclusions and measures**

- 1) Farm prices should be provided based on the cost of production and in the current market system, the brokers and the politicians should stop the plunder of the farmers.
- 2) Relevant animals and crops of climate change should reach farmers at the appropriate rates, which will help reduce the chronic obstacle
- 3) To maintain farm productivity through organic farming, efforts should be made to increase the production of per hector
- 4) Provide adequate supply to the agriculture sector and at reasonable rates, however, this will not increase the amount of indebtedness among farmers
- 5) Many varieties of crops which should be used for less rain and short duration should be developed
- 6) Provide funds to ensure irrigation backlog of the state to be done promptly and should complete the irrigation project immediately.
- 7) To store the commodities, make available godowns at each taluka
- 8) Farmers can be uprooted only if crop loss is given due to climate change



- 9) Most importantly, instead of defeating nature, cultivating farming by adopting the laws of nature will increase production and help to create a pollution free environment.
- 10) The society and the government should come together and make collective efforts when there is a loss of family society and, consequently, the loss of the nation from suicide.

### **Conclusions:**

In this research, we have tried to look at the big problem that is about suicides. Agricultural business is going through a very difficult and fragile state. Even also after declaring the debt waiver package, farmers' suicide is increasing without stopping. Therefore, farmers' suicide has become a far-reaching economic problem

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