

# **AATMA NIRBHAR BHARAT ABIYAN: SELF RELIANT INDIA**



*Editors*

**Dr. S. Theenathayalan  
Dr. V. Sriman Narayanan**

# **AATMA NIRBHAR BHARAT ABIYAN: SELF RELIANT INDIA**

**MAHATAMA KAMISU V. JO**

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## IMPACT OF CLIMATE CHANGE ON MSME'S IN MADURAI DISTRICT

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### Abstract

The direct impact of external environmental crises on MSME includes fatalities, supply chain disruptions, property damage, and loss of inventories. Conversely, the indirect consequence involves damage to public infrastructures such as electricity supply, communication, and transportation systems. Infrastructural damage, regulatory uncertainties; financial risks, market fluctuations, supply chain disruptions and reputational damage are some of the potential risks posed by climate change to businesses. However, there is a strong business case for corporate climate action. We find that climate change positively affects SMEs' innovation performance. The results show that the relation varies across firms and industries. High growth firms and highly profitable firms respond positively to climate change. Firms with high slack resources are positively linked to climate change.

Keywords: Environmental, climate change, Innovation and Manufacture

### Introduction

Bush fire contributed by drier climate causing calamity to the human beings and native animals. Drier climate with raised temperature is due to coal and other minerals production industries. As this industry plays key role in the economy of the country, they have to balance the action strategy also necessary in MSMEs

MSME stands for Micro, Small, and Medium Enterprises. In accordance with the Micro, Small, and Medium Enterprises Development (MSMED) Act of 2006, the enterprises are classified into two divisions.

**Manufacturing enterprises:** It is engaged in the manufacturing or production of goods in any industry.

**Service enterprises:** It engaged in providing or rendering services.

The world is on the verge of a crucial change in the climate, a change that has already started impacting business on a global scale, one way or another.

According to Karaoulanis A., "Impact of Climate Change on Small Business, International Journal of Entrepreneurship, In addition, according to climate.nasa.gov, "climate change is a long-term change in the average weather patterns that have come to define Earth's local, regional, and global climates,. These changes have a broad range of observed effects that are synonymous with the term".

People have started experiencing the significant impacts of climate change, which include changes in weather patterns, rising sea levels, extreme weather events and phenomena, etc. It is

imperative to understand that without action, the world's average surface temperature will rise over the 21st century and will likely surpass 3 degrees Celsius, while some parts of the world might experience even higher temperatures.

In this paper, we will examine the impact of climate change on MSME's plays in Madurai district. MSME's play an important role in both the economy and job creation, and they also have a heavy impact on the environment.

**Climate Change**

Climate change refers to **long-term shifts in temperatures and weather patterns**. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.

The global climate is the connected system of sun, earth, and oceans, wind, rain, and snow, forests, deserts, and savannas: and everything people do, too. The climate of a place, say Madurai, can be described by its rainfall, changing temperatures during the year, and so on. But the global climate is more than the "average" of the climates of specific places.

**Problem and Aim of the Research**

The problem of climate change and its impact on MSME's, which are the backbone of all societies. The aim of the research is to find out what this impact is and how MSME will be able to deal with it in an effective way that can lead them to sustainable development.

**Objectives of the study**

- ✦ To examine the Infrastructure facilities & climate for industrial development
- ✦ To analyse the impact of the climate change on MSME

**Methodology**

The method that was collected from journals was used, while the author gathered information from trustworthy and reliable online sources. In that way it will be possible to depict a clear and concise of some of the most prevalent ideas, predictions and trends

**Infrastructure Facilities & Climate for Industrial Development:**

Besides achieving parity in industrial growth and distributing economic activities evenly all over the Madurai district.

**Table 1. Industrial Estates in Madurai**

Sl.No	Name of activity	Units
1	Food and food based industries	5229
2	Cotton textiles	262
3	Hosiery & readymade	3827
4	Wood and wood based industries	1318
5	Paper based & printing industries	4372

6	Leather & leather based industries	292
7	Rubber and plastic based industries	1815
8	Chemical & chemical based industries	756
9	Non-metallic and mineral based industries	510
10	Basic metal industries	128
11	Metal based industries	4810
12	Mfg. of machineries and accessories	398
13	Electrical & electrical based industries & spares	1577
14	Transport equipments & spares manufacturing	28
15	Miscellaneous industries	6145
16	Individual Service based units	224
17	Individual service business based units	55
18	Repairing and servicing units	800
	<b>Total</b>	<b>32546</b>

Source: Statistical Handbook in Madurai District

There is a need for building up the infrastructure facilities uniformly. The District Annual Credit Plan envisages the implementation of a good number of innovative and hi-tech activities in the fields of agriculture, horticulture, farm forestry, waste land development, dairy, and small-scale industries. They should formulate the lending strategy taking into consideration the industrial estates given the table 1.

The system of transport plays a pivotal role in the overall economic development of any area. Madurai District has well laid out roads and railway lines connecting all major towns within and outside the state. The district has a very good communication network. Water that is essential for industrial use and human consumption is also available in plenty in most areas, and a district of 37 banking groups along with their branches are operating in this district. Banks and other financial institutions play a crucial role in promoting rapid industrial growth.

### Impact of Climate Change on MSME

We find that climate change positively affects SMEs' innovation performance. The results show that the relation varies across firms and industries. High growth firms and highly profitable firms respond positively to climate change. Firms with high slack resources are positively linked to climate change.

In most cases I get my goods 300 kilometers surround in area, where the area is hardly hit by drought. The farmers in Madurai, my hometown, prepared their lands for the planting season, but only a few grew. The remaining crops were invaded by locusts. They harvested for months, and it was not sufficient. The demand was so high that it affected the prices, and they started selling to us, the shop owners, at higher prices. Currently, most farmers have harvested the little maize left after the previous drought. They don't even sell them to the merchants because they fear there could be another bad drought in the coming months. Festus, middle-aged male grocery shop retailer, urban area Madurai Over one-third of the micro-retailers interviewed in our research- 37 per cent of MSMEs were impacted by the drought.

Rural MSMEs were more impacted by drought than urban or Semi - Urban MSMEs, which reported flooding as the most impactful weather events on their businesses. We found the primary impact of drought on MSMEs to be the reduced availability of goods, as farms aren't able to produce or distribute as many fruits, vegetables, livestock, or dairy products, as well as the knock-on effect of this on MSME customers' incomes for those involved in agriculture.

### **MSMEs Recovery from Drought**

Drought seemed to be very difficult for MSMEs to recover from in comparison to other types of shocks. Only 33 per cent of those impacted by drought in our interviews said they have fully recovered from the event. "The road to recovery is very slow. I remember it took me a year to fully recover. I was not able to better manage drought or high heat conditions in the future. Some mentioned that they would consider the acquisition of assets, such as cooling solutions, for their shop or for storage of goods. They see these assets as being valuable for many reasons:

- ✚ To reduce their losses on perishable goods.
- ✚ To enable them to store perishable goods for longer periods.
- ✚ To gain a competitive advantage over other shops by having a more comfortable environment (through cooling) or having products those are valuable during periods of drought or high heat, such as cold drinks and etc.,

### **Suggestions**

- ✚ Levying of a pollution tax is suggested as one of the solutions to the pricing of environmental
- ✚ Wastes must be documented and weighed under the supervision of local environmental officials.
- ✚ Low to interest green loans
- ✚ Environment costs can be added to accounts.
- ✚ Make it business because MSMEs use natural resources, corporate social responsibility (CSR) should be developed for them.

### **Conclusion**

Climate change is a contemporary phenomenon that has started to have a vast impact on society on a global scale. As a result, MSME has already started to feel the effects of its advent. In this research, we tried to shed some light on the impact of climate change on small businesses and the actions that small businesses need to adapt towards the mitigate the negative results of the climate change. This mitigation is achievable as long as certain actions that we described can be implemented as long as both the government and small businesses and since a more eco- friendly can be adapted in small businesses commercial philosophy, in their everyday operations and in their overall way of dealing with the phenomenon.

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He was also the organizing secretary of 10 National Seminars, 1 National Conference and 3 International Conferences. In addition, he has delivered 80 plus invited lectures at the UGC-HRDC and keynote addresses in Economics in National, International conferences and radio talks. His research contributions are also outstanding. At present, 4 Ph.D. Scholars and one Post-Doctoral fellow are working under him. He is the domain expert and one of the authors of Plus One and Plus Two Economics Text Books of Government of Tamil Nadu.

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