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On the Occasion of ICSSR SPONSORED
One Day National Conference On



CLIMATE CHANGE AND AGRICULTURAL CRISIS IN MAHARASHTRA

Organized by

Department of Geography, Vasundhara College, Chhatrapati
Tq. Ambajogai, Dist. Beed (M.S.)



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VASUNDHARA COLLEGE, GHATNANDUR

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DEPARTMENT OF GEOGRAPHY

Organized

1st National Conference on

CLIMATE CHANGE AND AGRICULTURAL CRISIS IN MAHARASHTRA

(20 Sept. 2017)

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Editorial

Dear Participants,

I am very happy to welcome you all for attending the first national conference on Climate Change and Agricultural Crisis in Maharashtra organized by Department of Geography, Vasundhara College Ghatnandur. The purpose of this conference is to share new ideas, trends of Climate Change, Global Warming, Growth of Population, Agricultural Production, High Temperature, Water Demand etc. Simultaneously we have to examine and discuss various problems and hurdles created in climate change and agricultural crisis field and the platform may help us to solve them.

We invited papers written in those language to facilitate expression of views and research work without any hindrance. We are happy to see that this view has resulted. large number of research paper has been submitted for discussion at the conference.

At last I wish to thank the secretary K.S.S. Ghatnandur Mr. Govindrao Deshmukh, Principal Dr. U.B. Pathre, Vice Principal Dr. H.B. Rathod, Principal Dr. H.N. Rede, Dr. P.A. Khadke, Dr. D.V. Shahapurkar, Dr. M.V. Suryawanshi, Dr. A.K. Hange, and all the participants who have responded to our appeal and participated with enthusiasm to make this event successful.

Dr. S.D. Waghmare

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Urban Climatic Condition Of Solapur City A Geographical Survey

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Introduction

Climate change is now very common issue in all over the world. Now days from local to global level all talking about climate change and their impact on human and on agriculture. Villages and cities are facing a problem of climate change and its impact on land use land cover. Growing population and Human activities are the major cause for climate change. Cities are the nodal centre of climatic change. In every city there are many problems about pollution. Air, noise and water pollution are very common problem in every city. The present paper deals with the urban climatic condition of solapur city

Keywords: - urban climate, Urban heat island,

Objectives - The present study has certain specific objectives, which are given below. 1) To study urban climatic conditions in solapur city

2) To find out solution to prevent climate change in study area.

Study Area:-

The Solapur city is the district headquarters of Administrative Departments. It is located on the south east edge of the state and lies entirely in the Bhima and Sina basins. Solapur city is located on 17° 40' North Latitude and 75°46' East Longitude. Its maximum temperature up to 44°C and minimum temperature is 15.9 C. Annual rainfall 620.57mm.

Data collection and Methodology

For the present study covers town as the study area. The analysis is based on the data collected from Solapur Municipal Corporation, field survey and observation.

Urban climatic condition in solapur city:-

Urban climate changes due to many causes. City growth an expansion results increase in built up area. Built up area helps to increase temperature in city. There are some causes for urban climate change as below.

Loss of farmlands

The increasing urban sprawl has results the conversion of agricultural land into human settlement. The city limit is extended recently, it includes 13 villages. Now a day, lot of farmers converts their agricultural land into non agricultural land and selling for commercial and residential purpose. Ecologically and grain production point of view, reduction of agricultural land is harmful. The reduction of vegetation cover observed in last tree decade.

1) Pollution

When boundary of a city is extended in outer areas. Pollution is also extended outside. The increases of vehicles and long trips of vehicles create air and noise pollution in Solapur city. Revised action plan for control air pollution in Solapur city (Maharashtra pollution control board. 2004) report indicate that, air pollution is also increased in study area. Number of vehicles registration increased in last two decade. It results changes in climatic condition on particular roadways.



2) Increase in fuel consumption

The extent of city limit results increases the transport services and increased trip length which ultimately result high consumption of fuel. The number and variety of transport services developed in the study area to fulfill the transport facilities. Revised action plan for control air pollution in Solapur city (Maharashtra pollution control board, 2004) report indicate that, number of vehicles registration rapidly increased in last two decade. It also helps change in climatic condition of study area.

3) Increase in temperature

Generally, in the summer season urban areas are warmer than the surrounding areas, it's known as urban heat Island. The heat islands are caused by various reasons. The dark surface like roadways, rooftops absorbs heat from sunlight and reradiates it as thermal infrared radiation, this surfaces has higher temperature than surrounding areas. The urban area in Solapur city lack of area under vegetation, the area of jule Solapur and area along with Hyderabad road shows increase in temperature. The heat Island effect expands in terms of geographic extent. The urban sprawl area of Solapur city with long travel distances generates large number of vehicles which results more fuel combustions produce more carbon dioxide and contribute to increase local temperature. These temperature changes intensify the heat Island in sprawl areas of Solapur city. In last 20 years temperature is continuously increasing. The increasing built up area results increase in temperature. Solapur Super Thermal Power Station is under construction. This power project has located at Pathatewadi and Aaherwadi village in Solapur. The power plant is one of the coal based power plants of NTPC. This project is under construction also producing air pollution. It is one of the major reasons of increasing temperature of outer area. (Deshmukh, Nikhil, 2011)

4) Poor air quality

Urban sprawl of Solapur city produces the poor quality of air. The sprawl areas are mainly characterized car dependent life style. Sprawl leads the over use of fossil fuel consumption and emission of greenhouse gases. Urban sprawl of Solapur city contributes the poor quality of air due to automobile use, which produces various pollutants added in the atmosphere of the city.

Solution

Urban climatic condition will change when life style of urban people will change. To prevent change in urban climate, to take some steps like use of public transport instead own vehicle, to plant trees on the road side, use non polluted vehicles, etc.

Conclusion

Urban climate is now emerging issues in world. There is lot of talk, discussion, summit, conferences are arranged, but implication is still on paper. Every citizens responsibility is to prevent climate change.

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