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“A STUDY ON THE AWARENESS OF GLOBAL WARMING AND ITS CAUSES AMONG THE SECONDARY SCHOOL TEACHERS IN NIZAMABAD DISTRICT OF TELANGANA STATE”

Mr. V. Raghunath
Osmania University , Hyderabad , Telangana .

ABSTRACT:

Climate is well-defined as the analysis of accumulated weather data for long term patterns and trends. According to the Oxford Reference Dictionary change is, "To make or become different." Climate change is for that reason is defined as "long-term weather patterns and trends becoming different over an extended period of time."

KEYWORDS: Global Warming, Greenhouse Gases, Climate change, Awareness, Secondary Teachers, Environment.

INTRODUCTION:

Changes in climate can result from both natural events and human activities. Instances of natural causes of climate change are volcanic eruptions, variations in the earth's orbit around the sun and variations in solar output. Instances of human-induced causes of climate change consist of industrial pollutants and fossil fuels, warming of average annual temperatures because of urbanization and changes in the earth's albedo because of deforestation of tropical



Mr. V. Raghunath

rainforests. Climate refers to changes that result from human activities, specifically as these changes relate to the issue of global warming. The special importance is the "greenhouse gas" effect which is defined as, "The trapping of thermal emissions from the earth's surface by human-induced greenhouse gases". If global warming is certainly happening, it is the greenhouse gas effect that is believed to be the most responsible.

“When we heal the earth, we heal ourselves.” –David Orr

Our atmosphere consists of many gases. Some of these gases, for example, carbon dioxide and water vapor of course, absorb long-wave radiation that is released from the earth's surface. Short-wave solar radiation enters the earth's atmosphere and is absorbed by the earth's surface. This radiation is then recycled and released as long wave terrestrial radiation.

Awareness is the state of knowing something. Awareness is having knowledge, informed of watchful events. Public awareness about global warming is a big problem. The only way to fight global warming is to prevent it. In spite of living in an age of information technology there is an immense lack of information among the common people about the dangers of global warming and climate change. There is very little detailed knowledge among the secondary school teachers. An information campaign on a world-wide basis is required immediately specifically to address this lack of information. Simply knowing the words or idea global warming and climate change is not enough. So the researcher will investigate the awareness of the problems of global warming among secondary teachers.

OPERATIONAL DEFINITIONS

Global Warming is the rise in the temperature of the earth's lowest atmosphere is called the troposphere. It is most commonly attributed to higher levels of greenhouse gases. Greenhouse gases are chemical compounds which absorb the sun's infrared radiation reflected back off the earth's surface and trap it in the atmosphere. With higher levels of greenhouse gases, more of the sun's heat stays close to the earth's surface which causes global warming.

Climate refers to changes that result from human activities, specifically as these changes relate to the issue of global warming.

The special importance is the "greenhouse gas" effect which is defined as, "The trapping of thermal emissions from the earth's surface by human-induced greenhouse gases". If global warming is certainly happening, it is the greenhouse gas effect that is believed to be the most responsible.

STATEMENT OF THE PROBLEM

"A study on the awareness of global warming and its causes among the secondary school teachers in Nizamabad District of Telangana State"

OBJECTIVES

- 1) To Investigate the Awareness of Global Warming and its causes between Male and Female School Teachers of Nizamabad District.
- 2) To Investigate the Awareness of Global Warming and its causes among Male and Female School Teachers of Nizamabad District teaching in Private and Government schools.
- 3) To Investigate the Awareness of Global Warming and its causes among Male and Female School Teachers of Nizamabad District teaching in Telugu and English medium schools.
- 4) To Investigate the Awareness of Global Warming and its causes between School Teachers of Nizamabad District teaching Government and Private schools.
- 5) To Investigate the Awareness of Global Warming and its causes among School Teachers of Nizamabad District teaching Private and Government schools of Telugu and English medium.
- 6) To Investigate the Awareness of Global Warming and its causes between School Teachers of Nizamabad District teaching in Telugu and English medium schools.

Hypothesis

- 1) There will be no significant difference in the Awareness of Global Warming and its causes between Male and Female School Teachers of Nizamabad District.
- 2) There will be no significant difference in the Awareness of Global Warming and its causes among Male and Female School Teachers of Nizamabad District teaching in Private and Government schools.
- 3) There will be no significant difference in the Awareness of Global Warming and its causes among Male and Female School Teachers of Nizamabad District teaching in Telugu and English medium schools.
- 4) There will be no significant difference in the Awareness of Global Warming and its causes between School Teachers of Nizamabad District teaching Government and Private schools.
- 5) There will be no significant difference in the Awareness of Global Warming and its causes among School Teachers of Nizamabad District teaching Private and Government schools of Telugu and English medium.

6) There will be no significant difference in the Awareness of Global Warming and its causes between School Teachers of Nizamabad District teaching in Telugu and English medium schools.

Methodology

POPULATION OF THE STUDY

Population for the present study comprises of Secondary School Teachers of Nizamabad District.

SAMPLE FOR THE STUDY

The present study deals with the sample of 200 teachers of Nizamabad District.

CHARACTERISTICS OF THE SAMPLE

The sample spawns among different categories like gender, medium of school and management of the school.

TOOLS FOR THE PRESENT STUDY

The environmental awareness questionnaire was adopted from Haseen Taj (2003). The tool was highly reliable for the investigation. The total items are 61. Covering the areas health and hygiene, population – explosion, wild life and forest, polluters and environmental concerned. There were 31 positive and 30 negative items. For the purpose of scoring numerical values (weightages) were assigned to each of the five categories namely Strongly Agree (S.A.), Agree (A.), Doubtful (D.), Disagree (D.A.) and Strongly Disagree (S.D.A.) based on the Likert (1932) method.

Limitations

- 1) The study is confined to secondary school teachers.
- 2) The study is confined to the teachers spread across in limited geographical area.

REVIEW OF RELATED LITERATURE

Nature can create greenhouse gases but humans also have increasingly created them by throwing off the balance of the heat in the troposphere. Natural greenhouse gases include: carbon dioxide emitted from plants, water vapor and methane gas. Absolutely human-made greenhouse gases include: carbon dioxide from power plants and airplanes, car emissions and gas from aerosols. Since natural and human made gases both have greenhouse properties therefore it cannot be protected that solely human activity causes global warming. Though, evidence indicates that the presence of these gases in the earth's atmosphere has increased dramatically from the time of the Industrial Revolution. Consequently, it is important to do what we can to prevent increased global warming.

Public awareness about global warming is a big problem. A recent phenomenon tracing its origin to the Earth Summit (held in Rio de Janeiro in 1992) where the United Nations called for a time-bound stabilization of greenhouse gases (GHG) to address climate change. The inter-governmental panel on climate change (IPCC, 2007) has been instrumental in establishing the fact that anthropogenic GHG emissions will lead to many changes in rising sea-levels, changing agricultural patterns, expansion of deserts, warmer summers and colder winters (IPCC, 2007). Even though global warming is merely one of the consequences of climate change the term global warming is being used widely in public and media address to refer to all impacts of climate change.

(1) Dr. Prashant Kumar Astabin (2012) "A comparative Study of Environmental Awareness between Secondary Students of C.B.S.E. and Uttar Pradesh Board in Kanpur Mahanagar" is an article on the problem of environmental degradation due to the adaptation of consumers life style and general apathy. Total 137 students were selected from C.B.S.E students have more environmental awareness than U.P. Board students.

(2) Dr. S. Viswanatha Reddy or Dr. S. Azmal Basha (2012) "Effect of Perceived Home Environment on Academic Achievement Among High School Children" is an attempt made to test whether there is any impact of home environment on achievement of high school students their findings are that there is a relationship between home environment conditions of the subjects on academic achievement students whose academic grades are low, moderate and high differ significantly among themselves on their perceived home environment respectively.

- (3)Dr.Surinder Singh (2012) "Environmental Education in the Present Scenario" is a study to find out the need and importance of environmental calculation. We celebrate World Environment Day on 5th June to develop awareness among people for clean environment and to protect it to save the future from global warming etc.
- (4)Prof. R. M. Parmar (2012) "A Study of Consumers' Experiences about Water World Resort" is a study on consumers' experience about performance of water world resort. The resort was Shanku's Water World Resort. It is recommended by an author that in order to get excellence in water world resort, there is a need to reduce different charge up to certain extent in order to attract more people.
- (5)ShafeeqaBano (2012) "Need of Environmental Awareness in Post Modern Era" is an attempt to discuss the need of environmental awareness. It mainly focused on the issues related to the environment and the government strategies in developing environmental awareness and related laws.
- (6)Ajita V. Pillai (2013) "Teacher as an Environmental Education: From Awareness to Action" is an attempt to explore that environmental education aims at affecting attitudes and behavior. It also help in building skills to take action.
- (7)Jokastan et.al. (2013) have studied on "Small holder Farmers' Perception of Impacts of Climate Change and Variability on Rain-fed Agricultural Practices in Semi-arid and Sub-humid Regions of Kenya." The study revealed that households in semi-arid areas are adapting to changing circumstances with climate change which play a key role in their decision making.
- (8)Babasaheb B. F.et. al. (2012) had studied on "Will Climate Change Pose Serious Threat to Crop Pest Management: A Critical Review" the result entails that the intensification of yield losses due to potential changes in crop diversity and increased incidence of insect-pests due to changing climate.
- (9)Sivasakthivel T & Shiva K. Reddy (2011) have done a study on "Ozone Layer Depletion and ITS Effects: A Review" The study reveals that stratosphere (where the ozone layer is) becomes colder due to global warming traps heat in the troposphere, less and heat reaches the stratosphere which will make it cooler.
- (10)Deshmuk D. T. & Lunge H. S. (2012) has done a study on "Impact of Global Warming on Rainfall and Cotton Lint with Vulnerability Profiles of Five Districts in Vidarbha, India." The yield of cotton lint indicates increasing trend for all the districts. It is observed that Wardha district is the most vulnerable and it is followed by Buldana, Amravati, Akola and Yavatmal.
- (11)Glenn Murphy (2008) has discussed in his book "Global Warning" about global Warming, fossil fuels, greenhouse gases and its effect more population and citylife is also responsible for global warming.
- (12) S. C. Santra (2001) has given insight about environment and its holistic natureand the laws that govern the ongoing recesses in the environment in an ecosystem and the interdependence of different elements in the environment is a priorityneed for a better understanding protection and improvement of the environment.
- (13) Susie Hodge (2009) in "Global Warming" of chapter-4, predicting the Future is about measuring change, warming i.e. hot. Rising of earth's temperatures could cause unpredicted table extreme weather conditions including droughts and floods. Forecasting the effects of global warming and predicting its problemseven it could affect human health adversely in several ways.
- (14)Susic Hodge (2009) in "Global Warming" of chapter 5, government and you is about taking responsibility and swift action. Government action and environmental schemes to reduce the production of greenhousegases. Renewable resources are needed to lower the pressure of the planet and scientist are not sure how much temperature will increase or whether global warming is a natural occurrence but they are developing methods of converting "clean" energy intopower.
- (15) Dr. Ram Kumar Gurjar&Dr.ShuchiMathur (2005) in "Environmental Studies" discuss about environmental pollution. Human activities are responsible for environmental pollution. They also mentioned kinds of pollution, effect of environmental pollution, effect of environmental pollution and pollution controlapproaches.

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