



WILL THE AGRICULTURAL RESEARCH SUFFICE TO OVERCOME THE CHANGING CLIMATE?

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ABSTRACT

Negligence, selfishness, corruption and lack of true education of the people are reasons for the climate change and deterioration of environment. These conditions also have been negatively affecting the growth and production of common crops. On the otherside, the population is increasing exponentially every year. The agricultural production also should be increased to meet the demand of the rising population. However, the land available for the agriculture is limited. It is neither increasing nor at constant level, but it is gradually decreasing year after year due to various reasons. It is a continuous challenge to produce the sufficient food for the continually increasing populations under the drastically changing climatic conditions. Several varieties of crops have been developed by the agricultural scientists that would sustain in the drastic climatic conditions and simultaneously produce more yield. However, government should also concentrate on the normalization of the environmental conditions and should see that the people get the true education which would help in protecting the environment and whereby the climatic conditions would be normalized over couple of decades.

KEYWORDS: Agriculture, Education, Greed, Population-expansion, Policy-making, Environment, Climate change.

INTRODUCTION

The people in olden days are very kind, gentle, honest, polite and broad-minded. They used to help/took care of one another and lived in peace and unity. They not only took care of others but also the nature. They really know what the environment meant for them and how it would keep them to live under pleasant conditions. They used to plant trees around their houses and also around their agricultural fields as a fencing and boundary of their properties, and thus the villages looked beautiful with full of green trees. Tough there was no electricity in those days, people lived happily and longer. They don't have electric fans or air conditioners in their houses, without these they did live in pleasant environment. They often used to sleep under trees during sunny day time, which gives pleasant cool air. The trees take up the harmful air carbon dioxide from the environment and gives the good air oxygen, which is the most important element to sustain the life on the earth. We don't know whether the people in olden days do know this scientific truth about the trees. But nowadays all people know the importance and need for the trees in our environment, because this fact about the importance of the trees have been taught from the school and all the modern-day people know this truth well. In fact, people can live without electricity, without all sophisticated equipment like cars, air conditioners, televisions, and all kinds of electronic goods; but people (of course not only human but all living organisms) can't live without fresh air, i.e. oxygen. One should have clear understanding that no living organism will survive without

oxygen, and thus the fresh air (oxygen) in the atmosphere is utmost important. People can live happily without electricity or electronic goods. people can live/survive without food for couple of weeks, people can survive without of water for couple of days, but people can't survive without oxygen even a single minute. That is the importance of the fresh air and hence, the oxygen is the utmost important to all living organisms.

Effect of Education, Livelihood and Negligence on Climate change:

The generations have changed, people have become too selfish, rude and corrupt. Now all most all people are getting at least the primary education and most of the people are obtaining the higher levels of education. Many countries in the world have attained 100% literacy, and people proclaim this so proudly. Even in our country several states have achieved this goal, in fact our government is striving to see that all the country should attain the 100% literacy. Ok, it is good that now we have attained literacy, but what is the result or outcome of this literacy? Negligence, selfishness, corruption and laziness. People think that learning is for earning money. Even our prime minister Sri. Narendra Modi ji in one of his speeches stated this as a proverb, i.e., "learn to earn". The meaning of real education has changed completely. Now people have the knowledge but don't have the understanding. Now people are so clever that they have invented many things to make the life easier, whereby all the generation has now become lazy (1). People think that

after education they don't have to or should not work in agriculture fields, instead they prefer to sit in offices under fans and air conditions to earn more and more money so that they can enjoy and roam in ac cars and flights. Now we don't see any literate person planting a tree or working in any agricultural field. Because the people have become so lazy and they think and wish that the food should come to their mouth even without their involvement in planting or farming. Now the eating mouths are increasing but the working hands are decreasing. Its ok, if the people don't plant the trees; but is it tolerable if they cut the trees that are planted by previous generations or others? The people are so selfish that their soul goal is earn money by whatever means it may be and they started exploiting the nature. Man is doing lot of damage to the environment for his benefit (which is temporary benefit). His work may benefit himself or couple of people or a group of people but the damage he is causing to the environment is reflected upon all mankind (all living organisms) throughout the globe. This is what people call the development. Hence, it may be stated that negligence, selfishness, corruption and lack of true education of the people are prime reasons for the climate change and deterioration of environment.

Effect of Population explosion on Climate change

These altered climate conditions are drastically affecting the entire mankind throughout the globe. Also, it has been negatively affecting the growth and production of common crops. If the agriculture is negatively affected by this changing climatic conditions then how the entire mankind be fed? If the altered climatic conditions gradually decrease the agricultural production then it will become impossible to satisfy the hunger of all mankind. This is a big and major problem, and the problem doesn't end here. On the other-hand, the population is increasing exponentially every year. As we all know that the population is not constant, but increasing rapidly every year. Primarily, in the developing countries including India, the population growth is the major hurdle. Because of the developments and advancements in medicine and pharmaceuticals, the average life expectancy is increased and death rates were declined and there is no decrement or even constancy in birth rate. Though the government has been adopting pro-natal policy and population control measures and advising the citizens to have 2-3 children per couple since the past 3-4 decades, rarely it has been practiced by the people (though literacy has been increasing among population).

The agricultural production should be increased to meet the demand of the rising population. However, the land available for the agriculture is limited. It is neither increasing nor at constant level, but it is gradually decreasing year after year due to various reasons. The important reasons for the deterioration of environment and drastic changes of the climate are industrialization, urbanization and shifting of labours from agriculture to industries.

Effect of Industrial development and Environmental pollution on Climate change

In the name of the development, most of the agricultural land has been converted or transformed into industries or

industrial parks. This conversion of agricultural lands to industries is not only minimising the agricultural production but also increasing the pollution burden in the environment, such as soil pollution, water pollution and air pollution. This is further deteriorating the environment and creating draught living conditions. Governments are offering more subsidies to establish industries, but they are neglecting the agriculture. The governments' approach to the agriculture is not appropriate and their support to agriculture is inadequate. Normally, during election time, political parties announce and give minute promises and support to agriculture just to increase their popularity among the poor agriculturists to attract more voters. Thus, the policies of the government are creating favourable conditions for the establishment of more and more industries which are licenced to create much pollution nuisance. All of us know how the environment has been polluted due to these industries. Is there any waterbody left unpolluted in the whole country or perhaps in the whole world? Almost all fresh-waterbodies were contaminated from least to most severity. On the other-hand governments established institutions such as pollution control boards to check and control over pollution released by industries to minimise the pollution burden. However, due to the corruption of the people and the governments the activity of these institutes are just nominal and there is no real control on the industries to minimise the pollution release into the environment. Moreover, the government officials and ministers are inviting foreign industrialists to establish more and more new industries in the country, by offering free or subsidized water and electricity and land. Hence, the adverse effects of pollution in the environment is neither steady and tolerable nor decreasing, but drastically the pollution level is increasing day after day. There are hardly any subsidies or encouragements to the farmers that do labour a lot to feed the entire mankind. Most of the foreign industries are using our resources to synthesize harmful precursors of chemicals and many kinds of harmful chemicals are directly released into the environment polluting our soil, water and air. These industries hire labour from our country whose health also under danger due to the pollutants. The governments are happy when people are getting hires in these industries. For this sole reason, the government is offering many subsidies and creating favourable conditions to set up more industries so that more people may get hired and engaged in these industries. However, the policy makers and the thinktanks of the government don't realize that they are spoiling the health of the people of not only those that are hired in these industries but of all who are living in that polluted environment around the industrial areas. Governments in the entire world think that if all the people in the country are well educated and get job in the industries, then they have attained the development. If all people get the education and leave the agriculture and do the jobs in the polluting industries, is that really development? Then who will do the agriculture and feed the people? If all people are earning thousands and lakhs of salaries by doing some kind of jobs, then who will remain to work in the fields of agriculture? Don't the policy makers and thinktanks of the government have the

understanding? Where is their knowledge? Almost all sophisticated and highly educated people are thinking foolishly and are responsible for the deterioration of the environment.

Effect of Migration and civic problems on the Climate change

Nowadays all people are willing to go to cities and settle in cities. They are striving to migrate to the cities. After getting education people eagerly desire to shift their families from rural places to urban areas. Since all the cities are already crowded there remain no space for the new comers. Hence the cities are expanding and the real-estate business is booming and there is no end of constructions. The villages and rural areas and agricultural fields are converted into cities with multi-storied buildings and the real jungles are becoming as concrete jungles. Most of the farmers are selling their land to real-estate businesses and migrate and settle in the concrete jungles, and hence, the agricultural land is getting declined day by day.

Another reason for this is shifting of labour from agriculture to industries. Number of people willing to work in agriculture are decreasing, since all are receiving education and after education no one is doing or interested to do the agriculture, but they are getting attracted to the cities. In fact, people in the present society think that, it is shame if someone work in agriculture after obtaining education. Hence, many agriculturists are selling their lands to the real-estate people and building a house in the cities and settling there only along with their children who were doing some job in the cities. Thus, the industrialization, and expansion of cities and conversion of villages and rural areas into towns have decreased the cultivable land.

Effect of Agriculture on Climate change

It is a continuous challenge to produce the sufficient food for the continually increasing populations under the drastically changing climatic conditions. Several varieties of crops have been developed by the agricultural scientists that would sustain in the drastic climatic conditions and simultaneously produce more yield. However, the flavour of the food has gone and nowadays the food materials we are getting has little or no flavour. It is becoming like grass for the man. People don't bother what they are eating, they just bother whether their belly is filled or not. What we are eating nowadays are coming from artificial varieties and through artificial processes and also highly polluted with pesticides. There are no more natural varieties which had a good taste and flavour. These artificial varieties which yield more and the use of chemical pesticides to prevent loss in yield is more affecting/damaging the health of mankind. It is evident that nowadays numerous kinds of diseases and disorders (which were never known in earlier days) are rising continually among the mankind.

Effect of Education on Climate change

Presently, Education is used as a means to earn the money and riches. The common proverb is "Learn to Earn". The

people are lacking and deprived of the true education. The well educators even don't have common sense to protect the trees, forests, green cover, which are the providers of oxygen the most important element for the life and simultaneously eliminating the CO₂, the major culprit for the increase of temperatures throughout the globe. Education is not only the means of earning the money and riches, but it should be primarily for the development of the country and to increase the fame of the country by improving the environment and living conditions. However, establishing more industries causing more pollution, expanding the cities, converting the villages into cities making concrete buildings, massive urbanization, converting the forests into industries causing huge destruction to the green cover on the planet and increasing pollution in the environment is not the development. Establishment of more industries and employing all the population of the country/world in these industries is not development. Earning money and gold by all people of the country is not development. Living under fans and air conditioners in multi-storied buildings & concrete jungles is not development. Roaming in flights and ac cars continually throughout the year is not the development. If all people are living under fans and air-conditioners, will it be development? Destroying the trees & agricultural fields and creating concrete townships is not development. Development means, to create pleasant atmosphere and living conditions to whole population in the entire nation and ultimately in the entire world. Now people can't live without air-conditioners, mobile phones, televisions and electronic gadgets. In the sight of people, electricity has become more important than the food, water and air. For what the people are striving? For money and gold and silver? Or for food? How can one create food with his money and gold and riches? All mankind has to realize the importance of agriculture and should work in the farming to make their lives safer and better.

Job means a responsible work. The true meaning of job has been changed. Nowadays people think that job means working in office or a factory or industry and earning money. Why the leaders promise to provide millions of jobs during election rallies? What do you mean by a job? Is agriculture not a job? Why don't people consider the agriculture as a job? Jai Jawan Jai Kisan (English: "Hail the Soldier, Hail the Farmer") was a slogan given to India by the Prime Minister and a great freedom fighter of India Lal Bahadur Shastri ji in 1965 at a public gathering at Ramlila Maidan, Delhi (2). These two are the primary and most important jobs of any country. However, in this modern generation, these two primary jobs are being neglected and made them as secondary.

Why the Scientists and Policy makers are particularly stressing the need for changing crop varieties suitable for the changing environment? and Why don't they do something and make policies to revert the changing climate to the normalcy or at least try to control/slow down the rapid changes in the environment? whereby people can enjoy the good climate by breathing fresh air, drinking clean water and eating clean food (free from chemical pesticides and pollutants) in pleasant environmental conditions.

CONCLUSION

Government should make policies to revert the changing climate to the normalcy or at least try to control or slow down the rapid changes in the environment. Government should also see that all the people of the country should get the true education (not money-making education) which would help in protecting the environment and whereby the climatic conditions would be normalized over a period of time. Learning is not for earning but learning is

for protecting the environment and making the climate better.

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