Reforestation As a Global Urgency

Introduction

He who destroys soil, destroys itself. Forest is the lungs of the land, it helps in absorbing CO_2 and giving O_2.

                                    Franklin Roosevolt

> General statement
> Thesis statement

2 Defining Reforestation and its main role in environmental stability

→ Reforestation is all about reviving back healthy land, it helps in regaining original features of land by providing habitat to creatures and absorbing CO_2.

3 Forests and its Significance

→ According to FAO (2024) report, forests absorb almost 6.2 million tonnes of CO_2.

4 | What kinds of factors necessitate Reforestation.

4.1 Global warming and climate change

→ Siachen and Baltoro glaciers shows great loss in density

4.2 Increasing Green House Gases

→ According to IPCC, deforestation contribute approximately 10% green house gases.

4.3 Water Crisis Globally and locally

→ World Bank Report warn that in 2050 about 50 billion people would face water crisis

4.4 Natural Disasters

→ Dawn reported that about 4,799 villages were destroyed in punjab due to floods of 2025.

4.5 Decreasing agricultural Production

→ Farmers face great depreciation

in crops production and growth.

4.6 Extinction Of Biodiversity disrupt ecology

→ About 5.7 billion creatures have lost their habitat.

4.7 Loss in Tourism

→ Deforestation affect rate of tourism, indirectly affect GDP of countries

4.8 Degeneration of Cultures and Traditions

→ Due to loss in forests, crop-cultivating communities starts to eliminate from societies

5 Major key measures.

5.1 To collaborate with international communities

5.2 To design Climate change and deforestation reforms

5.3 To spread awareness among local communities

5.4 To participate communities in green activities

5.5 To include climate and forest related topics in ~~curri~~ cirriculums

Conclusion

"Those who plant trees, Plant hope

Prof, crathaew

Deforestation, which is not only a local problem but has now become a global problem and it needs to be deal. For this purpose, Deforestation is the only solution and is now considered ase a global urgency due to prevailed environmental problems. Problems are not only regarding climate but it also touches local lives, cultures or traditions, economic and health of humans. Forests plays a very role but is

Unfortunately has been undermined. we humans according to our needs started to mould our soils and lands. Due to increasing population and globalisation forests has been cleared to built big infrastructures. This greatly affected humans not only their health but also their health. In order to deal with this locals and global leaders should take actions regarding this global problem. They should collaborate with international bodies to acquire funding or environmental related reforms and policies, they should participate the local people in green activities, locals must be trained to adopt green infrastructure. Such policies could helps in process of reforestation and would speed it up. Certainly! much needed step amid growing environmental problems.

In order to deal t with the problem first the term "Reforestation" should be comprehended. It refers to the efforts to revive back the eroded and degraded land

by again planting trees in the degraded land. Reforestion is a kind of procem and it work as a silver linning in the black clouds because it could save humans from destroying which is already on the brink of degradation. It could help countries to regain their eroded economy and depreciated GDP, communities to regain their lost traditional practices and could help in reviving biodiversity back. Affected water or hydrological cycle could become normal. Soil erosion and loss of nutrient problem can also be mitigated with the reforestation.

Reforentation is available now; **it is the cheapest solution, and** **everyone can participate.**

<div align="right">Prof. Tom Crowther</div>

The reason that reforestation has been emphasised that way is; Forest plays a vital role in our ecosystem. About 32% of our land is covered by forests. It is the natural and universal

Source used to sink of CO_2, means it absorbs CO_2 in a great amount. According to FAO report, approximately 6.2 million tonnes of CO_2 is absorbed by trees. This shows the importance of trees. Besides, this forest helps in regulating pattern of rainfall and temperature. Dense forests helps in transpiration such as it evaporates water from their stomata helps in decreasing ground temperature. Trees also contribute in health sectors, about 97.1. humans depends on trees for seeking trees. For. Instance, most appropriate tree, Cinchona is used for treatment of Malaria. This shows the immense and vital contribution of trees in our ecosystem.

Now, look into the factors which actually necessitates the reforestation. There are many factors which shows that reforestation is the only solution amid such huge crisis and degenerated environment. First and Foremost is the increasing global warming and climate change. With the passage of time, as temperature is increasing and duration of winters

is started to shorten. Trees are the natural air regulators, it not only regulate water cycle and soil nutrients but also helps in regulation of air and oxygen rate. It helps in absorbing CO_2 and emit O_2. Trophical rainforests i.e Amazon rainforest with maximum rainfall (more than 2mm), help regulate the ground and surrounding temperature. Due to greater rate of evaporation it decrease ground temperature. But due to deforestation land has been cleared and left unshaded, which absorb more heat and temperature, ultimately causing global warming. clearing of forest decrease evaporation, decreases or even disrupt rain fall rate.

Secondly, increase in green house gases also require Reforestation to solve this growing problem. The property of "phyto-sequestration" helps the plants to absorb CO_2 and other pollutants to absorb into its stems, roots or leaves. It helps in mitigating the harmful amount of gases present in the atmosphere. Due to this

Unique property of trees @, the need of trees are is felt, to cope with the increasing harmful gases.

Third, major issue that is being faced by the humans is major water crisis. Water Crisis is the problem mainly faced by developing countries due to poor infrastructure and low growth of trees. Plants' roots helps to absorb the rain water in its roots and helps to keep it in form of acquiers, which further leads to ground water bodies. But without trees, barren lands does could not absorb water in it and in this way, water ffollow its own course and get wasted. World bank has already warned the world that in 2050 about 50 billion people would face severe water crisis.

Fourth, natural disasters is also the result of the low rate of forests and trees. Trees are naturally wind force and water pressure resistant. It's strong grip in earth with the help of its roots help them to withstand

pressure or strain. Along with this it helps to absorb water especially rainwater. But unfortunately, barren land could not absorb any drop of water and it causes floods and severe ~~a water inudend~~ inundation Recent dawn reports highlighted the fact that absence of trees cause severe floods in area of Buner in KP, during 2025 floods. Such flood disasters caused destruction of about 4,799 villages in Pakistan.

Fifth, major problem that requires urgent need of reforestation is decrease in agricultural products. The reason is that loss of forests usualy cause ~~erotion~~ erosion of soil by washing away Primary nutrients such as Nitrogen, Sulphur and Phosphorus present in the soil for the growth of food. Barren land also causes saltation and acidity of land which make an unfavourable environment for the plants to grow food or crops.

Sixth, major problem is the major lose of biodiversity which finds its habitat in trees.

According to UN report, About

57% biodiversity has been losed lost. This lose not only disrupt their own habitat but also greatly affect our ecosystem as well. Some of those species helps in regulating ecological patterns such as pollination, biodegradation of organisms, food cycle include humans and animals.

Seventh, major problem is the lose in tourism. Tourism which is interconnected to greenery, wild ecosystem and aesthatics. This requires healthy growth of plants and forests. Indonesia rate of tourism helps 1.2% increase in GDP of country. This shows that forests could also elevate economic system of the country.

Lastly, the major the problem is the lose of ^cultural customs or values of the communities. Those communities which are dependend greatly on crop-cultivation and their production is mostly subsistence type. Means how much they need, they only produce needed amount, not any surplus food generation. Such communities usually feel so marginalized and

and helpless. Because they are not accustomed to contemporary technologies of food production. This consequently, leads to extinction of such communities. Such problems shows that needs of trees is is justifiable because reforestation is only possible means through which such exacerbating problems could be solved.

There is also a need of policies and reforms, should be initiated by locals and governance. They both could in collaboration solve this growing problems. First, at a state level, governing leaders should collaborate with international bodies. Such bodies, funding bodies, research and technology institutions and legal organizations or institutions to form agreements for providing funding for infrastructures and policies to curb this growing problem of deforestation.

Secondly, executive or legislature should enforce or implement, made rules or principles to control forest cutting. They should enforce rules strictly and also

warn them by mentioning about punishments. This punishment would serve as deterrence and would limit the process of deforestation.

Next, effective measure could be to spread awareness among local communities, means aware them about growing problem and expected disasters, and to educate them about the importance of trees or forests and their role in environmental sustainability.

Along with the above measures, government should set up such platforms and infrastructure which could initiate jobs and allot it to youth in order to participate in green activities through this jobs mediums. These jobs could include giving them the responsibity to arrange seminars or campaigns related to advantage of trees and greenery and reward them with proper salaries and incentives. This will motive them to take responsibity and to be punctual in their duty.

One of the last strategy to deal with the problem of

of deforestation is to add climate or environment related topics in syllabus of educational institutes. As, it is done in Japan to make young youth aware of te significance of the trees. This will make the youth aware of the problem and they would go for different strategies or measures, to adopt them and in order to mitigate the problem of deforestation.

Hence, it can be concluded with proper strong arguments that Reforestation, which is about replanting trees on the land once left degraded in order for economic gains, is the only solution of the exacerbating problem of deforestation. Plants which is of great importance and significance can not be undermined or ignored at any cost because it absorbe large amount of CO_2 and keep the air clean. Certain prevailed problems such as : global warming, increase air pollution, devastating impacts of natural disasters, economic

mpacts in form of low productivity of agriculture, decreased tourism - these problems main triggering reason is the removal of trees. Hence, leadership and governance should take some serious steps in order to curb the serious major issues. Measures and strategic steps include, reviving environment and climate related agreements, collaborate with in different research departments in order to find out alternative of serious issues, let the local and indegenious communities to take part in planting and to aware them of its importance and significance of trees or reforestation. These steps would help alot the communities or states to overcome the growing issue of deforestation.