



Research Paper

IMPACT OF COVID-19 ON HUMAN AND BIODIVERSITY

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Abstract

Without the protection of the environment, the life of human beings is not possible. June 5 of each year is celebrated as World Environment Day. In order to curb the growing unnatural resources and protect the environment, the public is aware of the environment. Due to Corona epidemic, a new dimension of nature is coming out which is showing that the world is very beautiful and the environment can be improved and made beautiful. This year, the theme of World Environment Day is 'The Biodiversity Utsav'. This theme is very helpful during the corona transition because it is part of human biodiversity. It is surprising but true that in the corona period, only in a short time, human activities were reduced and nature began to build up, environment started to become clean, The water of the rivers began to appear clear and the tweet of birds was heard. Environment changes is one of the most important challenge in 21st Century. How the environment will remain the only biggest tragedy of the whole world before the Corona infection and after the end of the Corona epidemic.

Key words: Covid-19, Pandemic & Biodiversity.

INTRODUCTION

Environment and life complement for each other. The manipulation of one also has an effect on the other. The epidemics that have occurred so far indicate this. The Corona epidemic has proved that as the biodiversity of our environment slowly broke, the epidemic caused havoc. There has been a very old relationship between the environment and epidemics such as plague death, smallpox, Spanish flu etc. When mankind played with environmental balance, some kind of epidemic showed us the mirror. In the last two decades, the world has faced many viral diseases. The thing to

note in all these epidemics is that most of the epidemics spread from animals to human. Environmentalists, Scientists, Intellectuals in India believe that unnatural harvesting of forest, over use of natural resources and unlimited eating of animals have uncontrolled the chain of biodiversity. As a result, not only India but the entire world is suffering the brunt of the Corona epidemic due to environmental imbalance. Due to the present scenario of Corona, there is a great need to work on considering how biodiversity can be preserved.

Imagination of life without nature is impossible. Trees, wildlife, aquatic animals, rivers, ponds, waterfalls are the major parts of biodiversity. Man is being surrounded by luxury. In order to fulfill our luxuries, humans have increased their ambitions, to fulfill which we are harming the environment every day. As a result, increasing pollution levels due to tree harvesting, factories, extinction of fauna has deteriorated the environmental balance and its impact is seen as a natural disaster. Corona epidemic around the world is warning humans about the extent to which human negligence towards the environment is overshadowing the entire human community. Our development trend is exploiting nature. Due to the gradual deterioration of nature, many bio-species are on the verge of extinction. If we would have been alert in time, today our situation would have been different in this transition period. If we Indians had reduced air pollution, perhaps 15% of the lives of people could have been saved from the Corona epidemic. Studies on the relationship between corona and air pollution are shocking. The corona virus basically a single stranded RNA virus. The SARS-COV-2 viral particle are spherical and have crown shaped portion that is spike producing their surface & loop like and crown like appearance. It has much more binding affinity than SARS. Its nature of higher binding that is respect of affinity to create transmission from human to human[1]. The novel corona virus has no limit for spread out in religion, caste and age factor. It is highly contagious in environment. World was never prepared for this pandemic where all the country in the world were trying to develop vaccine [2]. In India SARS Cov-2 came from Europe, Gulf countries, South Asian countries and Oceanian countries.

The corona virus (Covid-19) continues to wreak havoc all over the world. In an attempt to find the card of this dangerous virus, many treatments and vaccine vaccines are being researched at a very fast pace. In this exercise, American cancer researchers have identified a new target for the preparation of vaccine, which can control the corona

virus. According to the study published in the journal Cell Report Medicine, researchers have used the tool used in the development of cancer immunotherapy for the SARS-Cobi-2 virus that causes corona, and the identification of this new symptom can be a cure for the corona virus. Researchers at American Children Hospital of Philadelphia (CHOP) believe that the vaccine produced based on the results will provide protection to mankind and sustain a long-term immune response. The study lead researchers and pediatrician John M. Maris at the CHOP Cancer Center said that cancer behaves like a virus in many ways, so our team developed it to identify important aspects of childhood cancer. So we decided to use them for this virus. We have applied for these tools to identify the correct protein sequence in the SARS-Covi-2 virus. He said that we believe that our efforts will provide a way for such a vaccine. Which can be safe and effective.[3,4,5&6]

COVID-19 EFFECT ON LOCKDOWN AND BIODIVERSITY:-About 75 days of tight lock-down from Monday, except for the restoration of inter-state transport and rail services the restrictions were largely relaxed in different parts of the country. Unlock-1.0 has even opened restaurants and markets etc. Attendance in government and private offices is increasing. On the other hand, the reality is that the number of people infected with Covid-19 is continuously increasing and the number of people in the country has gone up to 2.5 million, leaving Spain behind, India is fifth in the world in terms of infection. But in the fourth place, Britain is just behind .The number of infected in Maharashtra alone has been more than 85000 and now it is ahead of China. According to epidemiologists, any epidemic is considered controlled when the figure of infection is reaching the peak and then curve started coming downwards[7].In India, the transition has not yet come on the peak According to Dr. R. Guleria, Director of All India Institute of Medical Sciences, says that different peak times are different for different states. Different states have seen an increase in cases after migrant laborers homecoming. But now that the speed of return has been controlled to a great extent, the concerned states can make proper arrangements such as quarantine. By last Saturday, the railways had transported over eighty five lakhs migrant laborers to their home state through Shramik Special trains and now the demand for these trains has actually come down. The severity of the transition from corona virus is in the worst five affected states Maharashtra Tamil Nadu, Delhi, Gujarat and Rajasthan .They have 70% corona virus cases and 78% deaths have taken place in these states, but this does not mean that in

states where the pace of infection is low, the danger has been averted. It is a matter of satisfaction that the death rate of Covid-19 in India is relatively low compared to USA and European countries. Italy, France and Spain, despite fewer infections from India, the number of deaths is more than 25000, despite the rising figures of infection, more vigilance is needed.

The air in Delhi Mumbai metropolis in India is more than 2.5 pm. Before the outbreak of Corona infection, the air pollution was very high in the cities of Delhi, Mumbai where there is a high number of people dying due to Corona infection. Beth Gordiner, author of *Life and Breath in the Age of Air Pollution*, believes that concerns have been expressed for the rising levels of air pollution in a more polluted country like India, especially for cities like Delhi and Mumbai [8]. Most of the air polluting countries did not focus too much on the deteriorating public health. Its effects have been suffering in the form of corona epidemic.

During Lockdown period in India everything is stopped either factories, transportation and movement of human beings. Only few steps of movement were allowed. The impact of covid-19 pandemic have successfully recover the environment ie global climatic change[9]. The behavioural changes of human during staying home, changes occur their surrounding. The respiration, drink of water and eat of fruit all are in related to biodiversity. In present scenario biodiversity is the complex phenomenon of our planet and is the most vital. The dream of biological diversity was coined in 1985 but the huge global biodiversity losses now become apparent reported in crisis equalling the climatic change. It is comprised of different levels ie genus, individual species, community of creatures and finally entire ecosystem such as forest, coral reefs where life interplay with physical environment. Nothing on earth is experiencing more dramatic changes at the human activity. Changes to the climate are reversible even it takes centuries or millennia. Before the time of Covid-19 pandemic we don't know how much biodiversity the planet can lose without prompting widespread ecological collapse [10].

The pandemic of covid-19 in Indian prospective the Janta curfew, Lockdown 1,2,3,4, brought a significant decrease in air pollution level ie Indian cities as Delhi, Mumbai, Bengaluru, Chennai, Ahmedabad, Lucknow etc. The cities overall decrease of 45% in the pm 10 levels and 35 % decrease in the pm 2.5 levels in the four lockdown between 25 March and May 31. In the Uttar Pradesh capital Lucknow for a longtime RSPM (pm10)

levels at residential, commercial and industrial areas were found to be lower than the NAAQS during the first three lockdown phases but it is slightly increase during fourth one. Some selected air pollutants namely RSPM (respirable suspended particulate matter) or pm 10 , Sulphur chloride, Nitrogen dioxide , trace metal (led and nickel),noise level overall pm10 continuous decreased by 44.9% .

The phases of lockdown intervention restricted public gathering , all modes of travel and lead to shutting down of commercial and industrial activities . The pandemic of Covid-19 impact on economy and social life of country . the lockdown improve the air quality, visibility .[11&12].The phases of lockdown also improve the water quality of holy river Ganga ,Gomti etc . The author studies the water quality of Gomti river in Jaunpur metropolitan area found the improvement of water quality during lockdown period . the author carried out the survey and study of River Gomti in Jaunpur during lockdown phases found the dissolve Oxygen ranges between 4.9-6.1 mg /L in the lockdown period. It was nearly two times higher than earlier data . the pH of river Gomti in Jaunpur between 6.9 -7.5 and BOD ranges from 10-18mg per litre and COD ranges between 40-45 mg per litre during the lockdown phases it is nearly 36 % reducing of BOD was observed . the improvement in biodiversity are temporary because it is result of lockdown . it is responsibility of every Indian citizen to improve their lifestyle and make and save the environment.

CONCLUSION:- Human population is destroying wildlife habitat due to increasing population. Day by day humans are going on encroaching on the forest, forest and as a result the risk of viruses like Corona virus has increased. Due to the encroachment on the forests, forests, mountains, the pace of infectious diseases has increased more than in the last three decades. We have to come to the conclusion and put it in our lives that the environment has to be protected. If we do not improve then human life will be in danger. Only if our biodiversity is preserved will the future of humans be saved. Biodiversity is very important for our good health and a balanced environment. The Corona epidemic has done what we have not been able to do for years. In the Corona period, small towns around the world have brought humans closer to nature .In India too, not only the air, water but also the wildlife started appearing outside.

After a long time, the sweet voice of the cuckoo was heard among the dense population of the city. Delhi residents are seeing blue sky due to 48% less pollution in Delhi, which is among the polluted cities of India. Corona did all this.

There has been talk of changing the lifestyle for the protection of the environment for years, but now the time has come that we must change our lifestyle and make a habit of living with nature, only then we will find a safe path.

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