1.2 PROBLEM ON HAND

Viral diseases are mostly responsible for considerable morbidity and mortality globally. Now a day’s viral disease is the biggest problem all over the world therefore many people are suffering from different type of viral diseases. All over the world including India there are different types of viral diseases are found. The various drugs are used to treat this type of diseases but the resisting power is lower down from the people Therefore many side effects are occurred in suffering people. From last few centuries there are different types of infectious diseases are found in more than 100 developing countries and by which this infections are spread to unaffected areas too. In each year the number of infected people and different cases of diseases are in increasing order which contains around 20000 to 25000 deaths all over the world. According to the record from WHO, there are more than 90 million dengue infections are seen in all over the world per year. The dengue is spread near to half of the population present in world. Recently the mosquitoes have borne virus i.e. Dengue spread all over the world about 75%.

The WHO stated by their investigation that, about 80% of rural leaving people are using medicinal plants which are available in their areas used to treat different type of diseases. The many doctors used these medicinal plants to treat diseases on the basis of their knowledge about traditional use of these medicinal plants. Taking into account the availability of medicinal plants in India we have tried to prepare a therapeutic dose which is a composition of extracts of various parts of medicinal plants to cure such viral diseases.

Nearly thousand types of viral diseases are known to infect humans. Viruses spread easily through closed environment such as school, home, workplaces, transports, etc. There are several virally infectious diseases present in the world. Out of this swine flu, dengue, and malaria are the most dreaded and prominent fast spreading diseases all over the world including India. These diseases are air borne infectious diseases. Dengue and malaria are caused by mosquito bite.

In October 2009, Pune City was heavily infected by the spread of swine flu. Most of the government offices, school and colleges were closed as a safety
measure. The ratio of number of infected patients to dead patient was about 1:1. As no medicine or vaccine was available for the treatment of Swine flu at that time so the Ayurvedic doctors recommended the use of oil of Nilgiri and Tulsi as a curative measure for stopping the spread of this dreadful disease. The disease is still playing havoc in under developed and developing countries. 2016 was the year of two other prominent mosquito bite diseases, dengue and malaria which caused many deaths all over Pune. As soon as the person is infected by dengue their blood platelets start decreasing which lead to low haemoglobin level. This results in the disfunctioning of the vital organs of the body and finally leads to the death of the patient. Around 500-700 people died due to dengue diseases at that time. Juice of Papaya leaves, pomegranate were given to the patient as a preventive measure. Decoction of ginger Tulsi, turmeric and lemon was also given to the patient. It was a hit and trial method. By using all this information we decided to prepare therapeutic dose for curing these diseases by using different parts of easily available some selected medicinal plants. The selected medicinal plants are very easily available everywhere in the world. These plants are being already used to treat diseases like cough cold, fever etc. But each plant treats different symptoms of same diseases. For example dengue patients use juice of papaya leaves to increase the plate counts in the blood, while ginger tea and leaves of Tulsi are used to reduce the fever. Also milk with turmeric is used to reduce cough and cold which infect the chest due to the same disease. These all plants are used to treat the various symptoms of the same disease but in separate combinations. Thus a patient has to take medicine number of times in different forms for getting cured. All the viral infections have some common symptoms like temperature, cough, cold, head and stomach ache, and increase or decrease in plate counts. Keeping in view all this traditional treatment we decided to make a therapeutic dose of all this medicinal plants together in a specified ratio which can treat all the symptoms of that disease.
1.3 OBJECTIVES

- To study the physico chemical properties of basil, allium sativum, zingiber, Azadirachta Indica, carica papaya and curcuma longa.
- Study the variation in the physico chemical properties of the extracts of these plants when taken in different combinations.
- To study the effect of the extracts of these plants when taken individually, on the blood contaminated with the dengue, malaria, swine flu etc.
- To study the effect of extracts of these plants, when taken in varying combination, on the blood contaminated with the dengue, malaria, swine flu etc.
- To study the microbial effect of the final product on the contaminated blood.
- To the spectroscopic analysis of extracts individually and in varying combination of medicinal plant extracts.
- To analyse the varying combination of extracts doped with the blood contaminated with dengue, viral fever etc spectroscopically.
- To perform the GC-MS analysis of the varying combination of medicinal plant extracts.
- To study the effect of contaminated blood on the varying combination of medicinal plant extracts with the help of GC-MS.
1.4 SCOPE OF RESEARCH WORK

The medicinal plants are which can be used to treat many diseases. From all those medicinal plants we select few medicinal. These plants are such plants in which whole tree or plant contains medicinal properties. From root to leaf each part of these selected medicinal plants are very useful to treat many diseases. All these plants contains properties like stress reliance, anti-aging effect, anti-oxidant properties, radiation protection, energy and performance enhancement, heart and vascular protection, liver support, lung and bronchial support, nutritional, anti-inflammatory actions, anti-biotic protection, immunity tune-up, height safety margins etc.

In the present work our try is to do a combination of all these medicinal plant extract to treat or to cure diseases like malaria, swine flu, dengue, viral infections, infectious diseases, etc. The selected medicinal plants are available in all region of the India. All the medicinal plants are available in every season except curcuma longa.

For this study we used only roots and leaves part. From this plant parts we can extract the juice. Each part of plant contains different biological as well as chemical composition. By using these properties of plant parts we can make a medicine which will cure many diseases.