

# YOUNG FRIENDS OF ENVIRONMENT

AMBASSADORS FOR SUSTAINABLE DEVELOPMENT

*Transforming challenges into opportunity*

## **Guideline for participating in Young Scientists Training Program**

### **❖ *Atmosphere & Water Quality Awareness Building Program***

We will organize training workshop for the students under the theme “*Young Scientist Training on climate Change*”. The training is to help all students reach higher levels of achievement in STEM Education, so that they have better understanding of STEM education. We will invite all the participants during these programs so that they can share their knowledge & experience with other young scientist across the region.

The program aims to involve a large group of teachers and students in the national Endeavour for a cleaner and greener environment. Teachers will provide guidance & encouragement to students to work towards this goal. The program will address water quality & air pollution problem in the large part of the country and works towards creating a better understanding of water & air quality parameter.

### ***Objective:***

The main objectives of the program are as follow:

1. To develop awareness about water & air pollution status among teachers and students and through them to communities.
2. To highlight the problem caused by water & air pollution in the country.
3. To disseminate knowledge to teachers and schools children about water & air quality monitoring analysis.
4. To provide students with technical expertise and training to help them evaluate the water quality status in their area.
5. To build consciousness and an attitude to save environment from further deterioration and hence laying foundation for a responsible society.
6. To organize intensive sensitizing programs to have a lasting impact on the target group of Students & teachers.
7. To develop skills in students to encourage them to study Air & water pollution and take decisions that will help them and the society.

***Important Parameters to be studied:***

***Water Quality***

- *Transparency*
- *Temperature*
- *Total dissolved solids (TDS)*
- *pH*
- *Conductivity*

***Air Quality***

- *Current Temperature*
- *Clouds*
- *Surface Temperature*

**❖ *Phenology Campaign - "Track nature's Green Wave"***

The activity focus will be on phenology campaign in the country. The phenology campaign brings a smartphone app GLOBE Observer App with which students can take measurement of trees height & Land cover change during a season. Simultaneously the students also gather GLOBE phenology and atmosphere data and compare their results to satellite data in the app.

**Species**

During the campaign we will focus on the following 7 species that are mostly found throughout Delhi: girmala, kadam, maulsari, peepal, pilkhan, bargad and jamun tree. More information about these species is available at the website.

Using GLOBE Observer App and GLOBE learning materials the students can

- This is a perfect and easy to use app for biology and geography classes alike.
- Compare your observations with those taken by other participants.
- Observe how elevation affects the greening of the vegetation and compare your observations with satellite data and with meteorological measurements.
- Make learning fun and exciting.

**How to participate**

- Download the The GLOBE Observer App, a simple to use tool to analyse your data and to learn how weather and climate affect phenology.
- Find another GLOBE school for collaboration through Discussion Forums.

We look forward to welcoming you to the Phenology campaign community!