

## Country PAKISTAN 2022/2023

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### Organization and Number of Staff:

The Globe team consists of Country Coordinators, School Principals, Teachers, Students Scientists and community members.

There are around 48 teachers and 800 students from various schools in Pakistan working on globe activities in various forms.

### Funding by:

In Pakistan the Globe Program is not very successful because of many constraints. The most pressing constraints are unavailability of financial resources and non-supportive attitude of Government. There is absolutely no support from the Government which makes it very challenging to expand this wonderful program in Pakistan. The Ministry of Climate Change is responsible for Globe Pakistan Program but unfortunately it is not funding the Globe Program. The Globe Program is mostly running on the goodwill gesture and support of Principals of Various Schools as well as the teachers who are working voluntary in it.

Some of the schools which are actively involved in the program are also very hesitant to spend their finances on globe program. This makes it difficult to buy the equipment to do the protocols which affects the effectiveness of the Globe program negatively.

Therefore, currently only few schools are active in Globe, however, I have approached many new schools and have given them an insight / introduction about the globe program. They liked the program and have shown willingness to initiate the Globe Program in their institutions.

#### Cooperating Organizations/Individuals:

This year Globe Pakistan was very lucky to get some Globe Equipment with the efforts of Mr. Austin McKinney a diplomat at the US Embassy in Islamabad and NASA Administrator. Globe Pakistan and I we are grateful to them for their help and cooperation and very soon this equipment will be distributing in few schools who will assure us that their students will actively participate in Globe activities and will put up data on website.

#### GLOBE Schools:

1. Names of Schools
2. EDU 21<sup>st</sup> Century School
3. Beaconhouse School
4. Roots Millennium School
5. Grammar School
6. Pak Turk International School
7. OPF Girls College F8/2 Islamabad
8. OPF Boys School H8/4 Islamabad
9. OPF School F11/2
10. Myers College Chakwal
11. Lahore Grammar School Lahore
12. Qaid -e- Azam Academy Gujranwala

## GLOBE Protocol Areas:

The students in Pakistan mainly focused on protocols for Atmosphere and Hydrosphere. Various curricular and co-curricular activities are conducted related to these spheres. Protocols for Pedosphere and Biosphere protocols are performed occasionally.

## Number of Schools Reporting Data Over Past Year:

Many schools in Pakistan are collecting data but they are not uploading their data to the GLOBE website due to various reasons mentioned below.

1. Shortage of computers in schools.
2. Lack of internet connections in classrooms.
3. tremendous emphases on institution's syllabus over Globe Program.
4. Prohibition of bringing cell phones to schools.

Currently only 02 schools are reporting data occasionally.

## Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):

- Education

Educational Workshops for students and teachers were provided. No international activity or event took place in 2023. Poster competitions were conducted to highlight the importance of conserving water and growing trees.

- Science

1. Hydrology Protocols were conducted to do a Research Project on water quality of drinking water of Islamabad.
2. Drinking tap water Research Project was carried out to determine if it was safe for drinking or not?

3. Students conducted Science Exhibitions to showcase their projects on the importance of Green and Clean Environment explaining why it's important to: -
  - a. Conserve Water and how it can be done?
  - b. Why we should plant trees?
  - c. Why we should have healthy Ozone Layer.However no inter school competition or international competitions took place.

- Community

The GLOBE students along with the support of teachers and scientists went on few field trips in order to make students learn about their surroundings, take measurements and analysis their results. Some of these campaigns were to investigate Hydrosphere protocols, others were clean up, hiking and nature walk trips to Margalla Hill Islamabad. Tree Plantation and Earth Day were also celebrated.

- Technology

Poster competitions were conducted to highlight the importance of looking after the mother Earth on Earth Day Celebration in few schools.

- Communications

All communications with the GLOBE schools were conducted through the assigned GLOBE teacher working in the respective school.

Plans and Ideas for Next Year:

1. To improve funding resources
2. To motivate more schools to use Globe Protocols.
3. To train more Globe teachers
4. To strengthen the data upload on website.
5. To buy equipment.

