

University Grants Commission of Bangladesh

Development of a Center for Climate Change & Sustainability Research

Introduction

The impact of global warming will be felt most widely and severely in developing countries like Bangladesh. DUET research is contributing to a better national and international understanding of critical questions. Vulnerability of Bangladesh to global warming impacts such as falling agricultural productivity, drought, flood, and sea-level rise. CCSSR's research will be based on the six pillars of the Bangladesh Climate Change Action Plan: Food security, social protection and health, disaster risk management; Infrastructure development; Research and knowledge management; Migration and low carbon development; capacity building and institutional strengthening. In the long run the center will benefit the nation in the climate change adaptation and sustainability. It will conduct the research that benefits the nation like assessing the stakes for Bangladesh in climate change and climate negotiations. The Center will integrate the center's activities with the university's academic program which will certainly benefit the university in the development of its UG and PG program under which Masters and Ph.D. degree will be offered to the researchers of the center by integrating the PG fellows with research activity of the center.

Specific objectives

1. To develop the context on climate change impacts
2. To establish linkages between climate change working group
3. To conduct research thematic regional and project level research activities
4. To establish sustainable Center

Major Activities

- Gathering information
 - Geographic, demographic and economic overview
 - Identification of sectors and regions vulnerable to climate change impacts
 - Socio-economic survey in the climate change affected area of Bangladesh
- Review and development of relevant economic, environmental and social plans for attention to climate change impacts
 - Creation of attention to climate change in Government portfolios, donors and others
 - Development of a linkage among academia, government decision maker, concerned other agencies, international agencies and public
 - Staff skill development by international training and study tour
- Review the principal impacts and vulnerabilities to climate change for country specific case study, drawing upon information from international and national assessments
 - Research on adaptation and mitigation measures to promote sustainable development, such as the modification of infrastructure projects with long life spans to incorporate projected changes in climate
 - Research on food security Sovereignty
 - Information sharing seminar and conference
- Formulation of new research projects and new donors for the sustainability of the center after the completion of this project
 - Integrating the activities of the center with the academic activity of DUET, offering Masters and Ph.D. research will be an outcome of the center by integrating the PG fellows with research activity of the center
 - Conducting the research that benefits the nation like assessing the stakes for Bangladesh in climate change and climate negotiations
 - Offering training program on climate change adaptation and mitigation to GOs and NGOs

Outcome

The development of a Center for Climate Change & Sustainability Research will benefit the nation in the climate change adaptation and sustainability. It will conduct the research that benefits the nation like assessing the stakes for Bangladesh in climate change and climate negotiations. The Center will integrate the center's activities with the university's academic program which will certainly benefit the university in the development of its UG and PG program under which Masters and Ph.D. research will be an outcome of the center by integrating the PG fellows with research activity of the center.

The Center will enable the graduate students of the university to conduct research activities in the center with latest developed technology in climate change. This will establish cost-effective research facilities in this new field. The center will enable to develop trained intellectual round the country who will be able to train more professional in climate change adaptation and mitigation. It is to be noted presently trained intellectual in climate change is fairly not available. However, in establishing the center the budget is selected considering the cost effectiveness.

Considering the depth of the issue, Civil Engineering Department, DUET would like to contribute to the nation in this situation through this project in knowledge management, research and development, technology transfer and training and capacity building. With the assistance through this project, Civil Engineering Department, DUET would like to support the nation in the following actions that are vital at this point for Bangladesh:

- ① In parallel with international negotiations initiatives at the domestic level are needed for improving the use of financial resources and quality of technology transfer.
- ② Developing adequate human and organizational capacity: Adequate technical, business, management, and regulatory skills.
- ③ Creation of an appropriate enabling environment: Participation of all stake holders – private actors, public agencies, NGOs, CSOs and grassroots organizations.
- ④ Establishing an effective mechanisms: improve transparency of project approval and public procurement procedures; reduce corruption.