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## **EDUCATION**

**Ph.D. in Sustainable Development** (2000)  
Jawaharlal Nehru University, New Delhi, India

**M.Sc. in Botany, Specialization in Ecology** (1980)  
University of Chittagong, Chittagong, Bangladesh

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## **CAREER HIGHLIGHTS**

- Was the Team Leader for Economic Dialogue on Green Growth Programme Bangladesh funded by DFID.
- Was a permanent member of Bangladesh Civil Service for a little over three decades and acquired firsthand experience of dealing with sustainable development challenges the country is faced with. Gathered more than 11 years practical experience in climate change and environmental issues including management of projects and programs with implications for environment improvement and climate proofing. Gained insightful experience in development planning, project cycle management, climate finance governance, natural resource management and sustainable development.
- Led Bangladesh Climate Change Resilience Fund (BCCRF), a Multi Donor Trust Fund administered by the World Bank, as its Project Director. Represented Bangladesh government in key negotiations to mobilize funds to the tune of US\$ 188 million for BCCRF from the seven (07) contributing bilateral and multilateral development partners including the USA. Prepared climate proofing guidelines with support of the Asian Development Bank for climate vulnerable sectors like agriculture and NRM, infrastructure and water resource. Also provided technical guidelines on a regular basis to Climate Change Cells (CCC) anchored in various ministries and agencies of the government toward formulating innovative projects on climate adaptation and mitigation for accessing to the resilience fund.
- Acted as the Operational Focal Point for Pilot Program for Climate Resilience (PPCR), a window of the Climate Investment Funds (CIF). With partnership of the World Bank and ADB, led the preparation of Strategic Programs for Climate Resilience (SPCR) document

for submission to the CIF and based on which Bangladesh received \$110m grant support from the PPCR for funding climate proofing projects taken up for coastal town resilience building, capacity building on climate issues, resilience building of coastal embankments, introducing adaptation agriculture in agro-ecological zones most vulnerable to climate induced stress and strains. The funds were leveraged for co-financing of three investment projects and two technical projects for climate proofing of core sectors of the Bangladesh economy.

- Led an inter-ministerial team for preparation of climate proofing projects on fast track and provided technical backstopping service to the stakeholders' ministries and various government agencies for developing adaptation projects for climate vulnerable areas of Bangladesh.
- Led UNDP funded project titled "Assessing Financing Needs for Climate Proofing of Bangladesh Agriculture, Water and Energy Sector".
- Led ADB funded Capacity Development and Knowledge Management project for Climate Adaptation. It was a TA project with grant support from PPCR.
- Was actively engaged with a World Bank study on Assessing Financing Needs for Adaptation in Bangladesh Water Sector.
- Was a member of the International Expert Group to the preparation of D-8 countries' sponsored '**Methane Finance Study Report 2013: Using Pay for Performance Mechanisms to Finance Methane Abatement**', by the World Bank Headquarters, Washington DC.
- Actively engaged in the preparation of Bangladesh Climate Change Strategy and Action Plan (BCCSAP), National Adaptation Plan (NAP) and National Sustainable Development Strategy (NSDS).
- Acted as Project Coordinator of Clean Air and Sustainable Environment (CASE), a US 62.2 m dollar multi-sectoral project funded by the World Bank, which came effective in 2010. It was the first environment sector project that sought to engage three major government agencies to reduce GHG emission and abate air pollution in Capital Dhaka and six other populous cities.
- Oversaw implementation of forestry, environment and climate change programs and projects and introduced results based monitoring for adaptation and mitigation projects with special focus on ensuring due diligence and transparency.
- Obtained training on procurement and fiduciary aspects of multilateral development Banks such as World Bank and ADB.

- Engaged in bilateral and climate diplomacy and represented Bangladesh to the Conference of Parties (COP) meetings of UNFCCC.

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## **WORK EXPERIENCES**

### **Team Lead**

#### **Economic Dialogue for Green Growth programme, Bangladesh**

**Adam Smith International, UK**

**Bangladesh Country Office**

**Dhaka, Bangladesh**

Jan 2016- November 2017

- Provided technical leadership to green growth programme activities that included conducting research activities, supervising consultants' works, sharing the study outcomes with key stakeholders including policy thought leaders of the government, organizing stakeholders' dialogue session and share policy recommendations with the government.
- Ensured buy-in of the government and maintained sustained effort to influence higher policy level of the government to include green growth aspects in sector policies.
- Contributed to a chapter on green growth for inclusion in the vision 2041 document.
- Set strategic approaches for the project in consultation with ASI/DFID.
- Developed Annual Work Plans in consultation with DFID and ASI.
- Ensured that all short term policy dialogues and long term thematic researches are in line with the overall objective of the programme.
- Acted as the programme's focal-point with relevant stakeholders and lead high-level engagements with the Government of Bangladesh, donors, relevant donor-funded programmes, research organisations, CSOs, etc.
- Led and support the project team to ensure the successful delivery of programme objectives.
- Ensured high quality of study reports from technical perspectives.
- Maintained liaison with the Global Green Growth Institute, Seoul, and similar international organizations across the globe.

### **Project Director, Clean Air and Sustainable Environment Project**

**Department of Environment**

**Ministry of Environment and Forests**

2014- 2015

- Led the Environment Component of the World Bank funded Clean Air and Sustainable Environment project (\$ 62.2 million) as its Project Director. The project seeks to abate air pollution in populous cities of Bangladesh by intervening in key polluting sectors with co-benefits of reducing Green House Gas (GHG) emissions.

- Introduced energy efficient brick making technologies with support of international consultants' and disseminated findings of the new technologies with brick manufacturers and owners of brick kilns.
- Extended policy support to the Ministry of Environment and Forests for banning traditional brick kilns contributing to air pollution and black carbon emissions.
- Periodically overseen works progress of local and foreign consultants engaged in the project for brick kilns new technology piloting, preparing draft brick rules, estimation of pollution from various industrial sources, brick kilns and motorized vehicles and the like.
- Organized stakeholders' consultations meetings in major cities for sharing the environmental gains out of introduction of new brick making technologies.

**Joint Secretary (Development), Ministry of Environment and Forests  
Government of the People's Republic of Bangladesh**

2009- 2014

- Drafted forestry, environment and climate change sector plan for inclusion in the Sixth Five Year Plan (FYP) (2010-2015) of Bangladesh Government.
- Oversight the implementation of environment and climate portfolio implemented by various agencies under the Ministry of Environment and Forest.
- Provided strategic and technical guidance to sector ministries and the agencies under thereof toward developing adaptation and mitigation projects in line with FYP objectives including the Bangladesh Climate Change Strategy and Action Plan (BCCSAP).
- Assessed resource needs in synergy with the Mid Term Budgetary Framework (MTBF) for public sector project financing in the Annual Development Program under the Ministry of Environment and Forests.
- Coordinated sectoral project screening for access to the LDCF and GEF fund. Represented Bangladesh in GEF regional meetings from time to time.
- Represented Bangladesh to the UNFCCC COPs 15, 16, 17 and 18 and actively took part in the negotiations of climate finance on behalf of the LDC group.
- Represented MOEF at the tripartite portfolio review meetings held in every six months that discussed implementation issues, disbursement performance and achievement of agreed results.
- Conducted meetings with project teams to have an update on the implementation progress and provided strategic guidance to overcome the barriers to project implementation.
- Coordinated with donors and development partners to develop project concept note and accessing the fund support for investment and technical projects.
- Acted as an interface with donors on harmonization of policies and procedures.
- Acted as Ministry of Environment and Forest's Focal Point to the UNDP funded project "Poverty-Environment and Climate Mainstreaming" implemented by Bangladesh Planning Commission and provided strategic guidance on environment and climate issues to the General Economic Division of the Planning Commission.

- Acted as the Focal Point of Ministry of Environment and Forests to the UNDP funded Climate Public Expenditure and Institutional Review project implemented by Ministry of Finance, Government of Bangladesh.
- Acted as the Focal Point of Ministry of Environment and Forests for formulating National Sustainable Development Strategy (NSDS).
- Coordinated with government agencies as well as NGOs, civil societies and various stakeholders for progress review of the implementation of Millennium Development Goal -7 set to ensure environmental sustainability. Played a key role in integrating the principles of sustainable development into national development policies and programs to arrest the loss of environmental resources.
- Engaged in the formulation of the Second National Communication under the United Nations Framework Convention on Climate Change (UNFCCC) and set the stage for the preparation of the Third National Communication document with the support of the UNDP country office.
- Actively engaged in the formulation process of REDD+ Readiness Roadmap for Bangladesh with support from the UNDP and FAO.
- Acted as a core Technical Committee Member of the CDM Board, Climate Change Trust Fund, BCCRF for evaluation and recommendation of climate proofing projects for approval of the CDM Board, Governing Board and Governing Council respectively.
- Engaged in oversight of the Environmental Impact Assessment (EIA) reports of red category projects seeking government nods.
- Co-chaired the LCG Working Group sub group on Environment and Climate Change comprising of donor agencies, multilateral development partners in Bangladesh to review aided project implementation progress and to assess resource needs and establish synergy in project funding by donors.
- Developed and further strengthened strategic linkages with key bilateral and multilateral development partners for extending funding support to environment, forestry and climate change sector projects.

### **Project Director and Head, Bangladesh Climate Change Resilience Fund (BCCRF) Secretariat, Ministry of Environment and Forests**

2010 - 2014

- Established Bangladesh Climate Change Resilience Fund (BCCRF) Secretariat with support of seven bilateral and multilateral development partners of Bangladesh, including the World Bank.
- Engaged in the preparation of BCCRF Implementation Manual which, inter-alia, delineates fund governance, World Bank roles and responsibilities, project grant criteria, project grant cycle, climate finance governance, project approval procedures etc.
- Prepared climate proofing guidelines for key sectors of the economy with support of the World Bank and ADB.

- Prepared Results Based Monitoring Framework for monitoring adaptation and mitigation projects.
- Provided technical backstopping support to stakeholder ministries on matters of climate adaptation and mitigation.
- Reviewed funding proposals, including the provision of guidance on the development of proposals,
- Supported NGOs with small grants to undertake climate adaptation activities at the grassroots level in climate vulnerable coastal, flood plain and draught prone areas.
- Oversaw project implementation progress, fiduciary management and procurement management by stakeholders agencies received grant support for project implementation.
- Monitored project procurement specially the contract management of consultants and disbursement progress on a regular basis.
- Acted as the core team member of the BCCRF governance set up and also as a Member-Secretary to the Governing Council, the highest body comprised of 9 cabinet ministers, donors and civil society representatives.
- Developed BCCRF web based portal for public glare and prepared annual reports reflecting project activities.
- Organized dissemination workshops for officials at higher policy level and various stakeholders to share BCCRF activities and inviting project proposals for access to the Fund.
- Organized periodical debriefing sessions on project implementation with stakeholder agencies and donors.
- Brought out BCCRF annual reports with the assistance of World Bank.

**Bangladesh Operational Focal Point for Pilot Program for Climate Resilience (PPCR),  
Climate Investment Fund (CIF)  
2010- 2014**

- Represented Government of Bangladesh as the Operational Focal Point of PPCR.
- Engaged in the preparation of Strategic Program for Climate Resilience (SPCR) for submission to PPCR sub-committee for access to climate funds which resulted in Bangladesh receiving grants and concessionary loans worth 110 million US dollars from PPCR. The funds were leveraged for co-financing of three investment projects: Bangladesh coastal Town Infrastructure Improvement project, Coast Embankments Improvement project, Coastal Climate Resilient Infrastructure project and two stand-alone technical projects – climate change capacity and knowledge management and feasibility study for a pilot programme of climate resilient housing in the coastal region.
- Facilitated design and implementation of SPCR interventions.
- Oversaw preparation of project concept notes for sharing with the CIF.
- Extended technical and policy support to sector ministries and their line agencies for preparation of adaptation projects for accessing to PPCR fund.
- Monitored progress of PPCR funded climate adaptation projects and provided policy supports to identify activities under sectoral projects.

- Facilitated the setup of a web based portal on climate change information and knowledge management network in the Ministry of Environment and Forests.
- Organized regular debriefing sessions on project implementation with stakeholder agencies and donors.
- Periodically monitored and reviewed progress of the activities of consultants' engaged under the implementing agencies of the government.
- Conducted coordination meetings with World Bank, Asian Development Bank and IFC, the three contributing MDBs associated with PPCR projects.
- Contributed to the formulation of PPCR core indicators and results monitoring tool.
- Prepared annual reports for sharing with the CIF Administrative Unit.
- Represented Bangladesh Government in the annual meetings of the PPCR pilot countries held in foreign capitals.

### **Deputy Secretary on attachment with the Ministry of Environment and Forests Government of the People's Republic of Bangladesh**

2008-2009

Led the preparation of Clean Air and Sustainable Environment (CASE) project with PHRD grant support (US \$ 0.7million) from the Japan Government administered by the World Bank. Led the pre-feasibility study of the Bus Rapid Transit (BRT) System in Bangladesh capital Dhaka and Route Rationalization and Route Franchising Study. The study subsequently led to taking up a full pledged design and feasibility study for introducing BRT in a single corridor of Dhaka city under the World Bank funded CASE project.

### **Project Director, Air Quality Management Project**

#### **Ministry of Environment and Forests**

2005 - 2008

Led the World Bank funded (US \$ 06 million) Air Quality Management (AQM) Project as its Project Director. A Learning, Innovation and Loan (LIL) project, AQMP singularly contributed to generate media interests and mobilize public support in banning the gross polluting vehicles in Bangladesh capital. Contributed to develop regulatory and institutional framework towards abating air pollution in Bangladesh.

### **Second Secretary**

#### **Bangladesh High Commission, New Delhi, India**

1993 – 2001

Engaged in improving diplomatic relations with India under the leadership of the Head of the Mission, maintained regular and persistent contact with the Indian External Affairs Ministry for resolving issues in the area of water sharing, trade and commerce, border trade, boundary demarcation, education and culture etc.

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## **TECHNICAL and PERSONAL SKILLS**

- Sustainable development, Green Growth, environmental governance, climate finance governance, foreign aid management and aid negotiation, project development, budget development, portfolio and project management, results based monitoring and evaluation of public financed projects and human resources management.
- Environmental Impact Assessment (EIA), Green House Gas (GHG) emissions monitoring, climate proofing assessment of agriculture sector projects, dispersion modelling, air pollution management,
- Negotiation skills with bilateral and multilateral development partners including MDBs for project financing.
- Climate Diplomacy with special interests in climate finance and adaptation.
- Speech writing, report writing and document preparation.
- Comfortable in using basic software such as Microsoft Word, Excel, PowerPoint, Outlook, SPSS.

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## CERTIFICATIONS

- **Procurement Procedures for the World Bank Aided Projects** at the Administrative Staff College of India, on October 17-28, 2005 at Hyderabad, India.
- **Disbursement for World Bank funded Projects** organized by the World Bank Country office in Dhaka, December 6-7, 2005
- **Management for Development Results** at the World Bank Country Office, Dhaka, 31 October, 2007
- **Project Planning and Management** from 25 November- 8 December 2007 at Kuala Lumpur, Malaysia.
- **Capacity Building for Sustainable Environmental Governance** held in Dhaka, 4-5 November, 2007
- **Selection and Recruitment of Consultants in World Bank –funded Projects (WB-ITCILO)**, 16-20 November, 2009, ILO International Training Centre, Turin, Italy.
- **Working with Stakeholders Dialogues, Key Concepts and Competencies for Achieving Common Goals**, Collective Leadership Institute, 21-24 May, 2012, Potsdam, Germany.
- **The Economics of Climate Change Adaptation**, UNDP/USAID, Bangkok, 24-26 October, 2012.

## PUBLICATIONS

### BOOKS/ STUDY REPORTS

- 1) **Financing Green Growth in Bangladesh: Challenges and Opportunities**, GGGI, Seoul, Korea(www. Greengrowthknowledge.org/resource/financing-green-growth-bangladesh-challenges and opportunities), March 2017 (co-author)
- 2) **Green Growth Diagnostic: Bangladesh**, GGGI, Seoul, Korea (www. greengrowthknowledge. org/resource-greengrowth-diagnostic-bangladesh ), Global Green Growth Institute, Seoul, November 2016 (co-author).
- 3) **International Green Growth Best Practices: Review and Application to Bangladesh**, GGGI, Seoul, Korea (www. greengrowthknowledge.org/best-practices/international-green-growth-bestpractices-review-application-bangladesh, November 2016 (co-author).
- 4) **Assessment of Short-lived Climate Pollutants and Greenhouse Gas Emissions in Bangladesh**, Norwegian Institute for Air Research, Kjeller, Norway, 2014 (co-author).
- 5) **Contributions of Brick Kilns to Dhaka’s Air Quality, Bottom up Emission Inventory and Dispersion Modeling**, Norwegian Institute for Air Research, Kjeller, Norway, 2014 (co-author).
- 6) **Methane Finance Study Report: Using Pay for Performance Mechanisms to Finance Methane Abatement**, World Bank , Washington DC, 2013 (co-author)
- 7) **Health Impacts from Air Pollution in Dhaka City**, Norwegian Institute for Air Research, Kjeller, Norway, 2013, (co-author).
- 8) **Second National Communication under the United Nations Framework Convention on Climate Change (UNFCCC)**, Ministry of Environment and Forests, Government of the Peoples’ Republic of Bangladesh, October 2012 (co-edit).
- 9) **Climate Change Issues and Climate Change Negotiations: An Overview from Bangladesh Perspectives**, IUCN, Bangladesh Country Office, 2011 (co-author).

#### **PUBLICATIONS IN PEER-REVIEWED JOURNALS**

- 1) Bilkis A Begum, **Md. Nasiruddin**, Scott Randal Bjarne Sivertsen, and Philip K Hopke. **Identification and Apportionment of sources from Air Particulate Matter at Urban Environments in Bangladesh**,*British Journal of Applied Science & Technology*,4(27): 3930-3955, 2014.

- 2) B A Begum, G Saroar, **Md Nasiruddin**, S K Biswas, **Ground Level Concentration of Ozone in Ambient Air in Chittagong City**, *Bangladesh Journal of Scientific and Industrial Research*, 47(1), 83-88, 2012.
- 3) B A Begum, Swapan K Biswas, **M. Nasiruddin**, **Characterization of Chittagong Aerosol by PCA Modeling**, *Journal of Bangladesh Academy of Sciences*, Vol 36, No.1, 19-31, 2012.
- 4) M A Rouf, **M Nasiruddin**, AMS Hossain, M S Islam, **Trend of Particulate Matter PM 2.5 and PM 10 in Dhaka City**, *Bangladesh Journal of Scientific and Industrial Research*, 46(3), 389-398, 2011.
- 5) B A Begum, Anwar Hossain, Golam Saroar, Swapan K Biswas, **M. Nasiruddin**, Nurun Nahar, Zohir Chowdhury, Philip Hopke, **Sources of Carbonaceous Materials in the Airborne Particulate Matter of Dhaka**, *Asian Journal of Atmospheric Environment*, Hong Kong, Vol, 5-4, 237-246, December 2011.
- 6) B A Begum, A Tazmin, K A Rabbani, Swapan K Biswas, **M Nasiruddin**, **Investigation of Sources of Particulate Matter from the Tejgaon Area, Dhaka**, *Journal of Bangladesh Academy of Sciences*, Vol 33, No. 1, 71-85, 2009.
- 7) B A Begum, Swapan K Biswas, **M Nasiruddin**, A M S Hossain, Philip K Hopke, **Source Identification of Chittagong Aerosol by Receptor Modeling**, *Environmental Engineering Science*, USA, Vol 26, No. 3, 2009.
- 8) M A Rouf, H H Hasib, **M Nasiruddin**, **Studies on Smoke Opacity of Different Types of Diesel Vehicles in Dhaka City**, *Bangladesh Journal of Scientific and Industrial Research*, 43(3), 555-566, 2008.
- 9) M.A Rouf, **M Nasiruddin**, AMS Hussain and M S Islam, **Trend of Ambient Air Quality in Chittagong City**, *Bangladesh Journal of Scientific and Industrial Research*, 47(3), 287-296, 2012.
- 10) H A Sikder, **M Nasiruddin**, J Suthawaree, Shungo Kato, Yoshizumi Kajii, **Characteristics of Surface Ozone and Precursors Observed in Dhaka**, Bangladesh, (paper presented at Tokyo Metropolitan University, 2011).
- 11) **M. Nasiruddin**, **Setting the Ambient Air Quality and Vehicle Emission Standards: Dhaka's Experience**, Paper presented at the National Workshop on Urban Air Quality and Integrated Traffic Management, organized by the IUCN and ADB held on September 13-14, 2006, Karachi, Pakistan.
- 12) **M Nasiruddin**, M Khaliqzaman, Swapan K Biswas, **Co-benefits of Air pollution Reduction from Brick Kilns by moving to Cleaner Technology in Bangladesh** (paper

presented at the Better Air Quality Conference held on 12-15 November, 2008 in Bangkok, Thailand).

- 13) Bilkis A Begum, **Md. Nasiruddin**, Scott Randal, Bjarne Sivertsen, and Philip K Hopke, **Monitoring of PM<sub>10</sub>, PM<sub>2.5</sub> and Black Carbon concentrations at Urban Environments in Bangladesh** (Paper under submission to Journal of Air and waste Management Association, USA).
- 14) Bilkis A Begum, **Md Nasir Uddin**, Philip K Hopke, Andreas Markwiz, **An approach for quantitative estimation of long range transport of fine particulate matter entering Bangladesh** (in preparation).
- 15) G. Saroar, Md. Nasiruddin, Masud Rana, Scott Randal, Bjarne Sivertsen, and Dam Vo Thanh , **Ambient Air Pollution screening Study in Bangladesh**. ISBN no: 978-82-425-2394-5 (Electronic), 978-82-425-2393-8 (Print).
- 16) Bilkis A Begum, Salahuddin, Anwar Hossain, G. Saroar, M. Nasiruddin, Swapan K Biswas, Nurun Nahar and Philip K Hopke, (2010) **Impact of vehicle fleet characteristics on ambient PM<sub>2.5</sub>, PM<sub>10</sub> and Gas Concentrations in Dhaka at the Farm Gate (CAMS-2)**, Journal of Bangladesh Physical Society.
- 17) Bilkis A. Begum, Anwar Hossain ,Golam Saroar, Nurun Nahar and Md. **Nasiruddin** **Impact of vehicle fleet characteristics on ambient PM Concentrations during rainy season at Farm Gate (CAMS-2) in Dhaka**, Bangladesh J. Sci. Ind. Res. 48(2), 143150, 2013.
- 18) Bilkis A. Begum, Zohir Chowdury, G. Saroar, M. Nasiruddin, Swapan K. Biswas, and Philip K. Hopke, **Characteristics of size resolved PM concentrations in Dhaka during the dry season**, Journal of Bangladesh Physical Society. Vol-15, Page.15-26, 2014.
- 19) B. A. Begum, G. Saroar, M. Nasiruddin, S. K. Biswas, Ground-level Concentration of Ozone in Ambient Air in Chittagong (Bangladesh) City, Bangladesh J. Sci. Ind. Res. 47(1), 83-88, 2012.
- 20) Bilkis A. Begum, Anwar Hossain ,Golam Saroar, Nurun Nahar and Md. Nasiruddin **Impact of vehicle fleet characteristics on ambient PM Concentrations during rainy season at Farm Gate (CAMS-2) in Dhaka**, Bangladesh J. Sci. Ind. Res. 48(2), 143150, 2013 .

## REFERENCES

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