

Basic Information

- **Job title:** Professor **Department:** School of GenED/JPGSPH
- **Full Name:** Nepal Chandra Dey
- **Father's Name:** Akhil Chandra Dey, **Mother's Name:** Sanda Rani Dey
- **Date of Birth:** 4 February 1970; **Gender:** Male **Marital Status:** Married
- **NID :** 2354616878 ; Married **Country (Nationality) :** Bangladesh
- **Division :** Chattogram **District :** Chandpur **Upazila :** Chandpur Sadar
- **Village/Town :** Chapila **Post Office :** Farackabad **Post Code :** 3600
- **Contact Address :** 21/5 Pallabi, Mirpur, Dhaka 1216
- **E-mail:** nepalcdey1@gmail.com; **Mobile No :** 01714-091-310



Others Information

Professional Degrees or Training (if applicable)

- **Ph.D in Bioenvironment Science** from Tottori University, Japan in 2006 (passed with distinction)
Dissertation title: Evaluation and assessment of local environment conditions using RS data & GIS
- **M. Sc. Water Resources Engineering** from Bangladesh University of Engineering & Technology, Dhaka in 2000 (1st Class with CGPA 3.1)
Thesis title: Evaluation of unsaturated hydraulic conductivity of soil using soil-moisture retention data
- **B. Sc.in Agricultural Engineering**, Bangladesh Agricultural University, Mymensingh in 1996 (1st Class and 4th position in merit)
Project title: Environmental and health impact of drought in the nothwest region of Bangladesh

IELTS Score

Outstanding Score: 630; Completed under British Council, Dhaka in 1999

Training

- Training on “World Bank’s Environmental and Social Framework (ESF)” Capacity Development Program. Occupational health and safety assessment and management for employees in the workplace as mandated by the WB’s ESF and ESSs, held on June 21-23, 2022, from 9.50 AM to 4 PM, PKSf Conference Hall.
- Training on “Application of GIS in Development Planning” held at Bangladesh Agricultural Research Council (BARC), Dhaka, held in April to June 10, 1999.
- Training on “Application of GIS in development” held at Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, held in January 10-18, 1999
- Training on “World Bank’s Environmental and Social Framework (ESF)” Capacity Development Program. Occupational health and safety assessment and management for employees in the workplace as mandated by the WB’s ESF and ESSs, held on June 21-23, 2022, from 9.50 AM to 4 PM, PKSf Conference Hall.
- Training on “Engaging University Faculties for Capacity Building in Achieving SDGs on Sustainable Food and Agriculture” organized by Food and Agriculture Organization of the United Nations (FAO) Bangladesh, held at BARD Cumilla, held in October 12-16, 2019.
- Sharing knowledge, experience and perspective on “Energy Costing in Innovative Award Learning Event on MDG Costing Tools in Asia, organized by UNDP Regional Centre Bangkok held in August 11-13, 2008.
- Hands on training on “MDGs Costing Tools”, organized by UNDP Regional Centre Colombo and UNDP Bangladesh, held on April 19-25, 2008.
- Training on “Improvement of Skill and Work Environment of Landless Wage Earners in Rice Processing Systems in Bangladesh” Research and Extension in Farm Power Issues (REFPI), Dept. of Farm Power & Machinery and DFID held in September 28-29, 2002.
- Training on “Statistical Package for Social Science (SPSS)” held at Advanced Center for Courses in Eng. & Social Sciences (ACCESS), BETS, Dhaka, held in August 18 to December 8, 1999.
- Training on “Bio-gas Technology” held in Bangladesh Council of Science and Industrial Research (BCSIR), Dhaka, held in December 6-15, 1998.
- Awarded Certificate of Excellence for successful completion of SPSS Training by ACCESS, BETS Group, Dhaka, held in Aug 18 to Dec 20, 1000)

World BankGroup’s Certificate Course Completed:

- Social Media Engagement, held on 25 January 2024
- What’s Your Role? Preventing and Addressing Sexual Harassment on 26 January 2024.
- Access to Information – IBRD, held on 27 January 2024

- Cybersecurity Awareness Course: Be the Strongest Link, held on 27 January 2024
- Our Core Values and Code of Conduct, held on 30 January 2024

Awards and Honors

- Japanese government “Monbukagakusho” Scholarship for Doctoral study (2003-06), Tottori University, Japan.
- NUFFIC Scholarship for Master’s Study (1998-99) in the Dept. of Water Resources Eng. BUET, Dhaka.
- Upper Classmate Scholarship for Undergraduate Study (1990-94) in Bangladesh Agricultural University, Mymensingh 2202.
- Awarded for phenomenal and worthy Invited Lecture on “Improving climate change adaptation through crop simulation model by at 5th Symposium on the Development and Application of Agricultural System Models, held on November 11-14, 2018, Nanjing, China.
- Awarded for phenomenal and worthy Invited Speech on Impact of WASH interventions of Health at UHC Policy & Solution Conference held on 9-11 April 2015, Radisson Blu Water Garden, Dhaka.
- Awarded Certificate in recognition for outstanding excellence in Scientific Community at the 2nd Int’l. Convention on Geoscience and Remote Sensing held on 6-8 Nov 2017 in Las Vegas, USA.

Co & Extra Curricular Activities and Interest Areas (1000 letters)

I have been involved in both Co & Extra curricular activities and my interest areas are as follows:

Contribution at Global FSN Forum

"I am a nominated contributor to a series of Global Forum HLPE-FSN consultations, including:

- ['Building Resilient Food Systems in Bangladesh' in 2024,](#)
- ['Agrofood Systems for Climate Action' in 2023,](#) and
- ['Realization of the Human Right to Adequate Food' in 2023,](#) marking the 20th anniversary of the Right to Food Guidelines at the FAO of the United Nations."

Professional Leadership and Advisory Services

- **Academic Editor**, Academia Biology (from 2022 to Oct 2024).
- **Review Editor**, Frontiers of Environmental Science (2022-2024) (Impact Factor=5.411)
- **Review Editor**, Frontiers Toxicology, Pollution and the Environment (from 2022 to 2024) (IF= 7.563)
- **Topic Editor**, Frontiers Nutrition for Sustainable Dev. Goals: Clean Water and Sanitation (2022 to 2023)
- **Reviewer**, Applied Water Science; Water Resources Management; American Journal of Environmental Protection; Development Engineering; BMC Public Health; Lancet Global health.
- **Member (Board of Examiners)**; Doctoral Committee, Institute of Water and Flood Management, Bangladesh University of Engineering and Technology (BUET) (from June 2021 to the present).
- **Member**, High Level Expert Panel, Global Forum on Food Security and Nutrition (FSN) (from 2023 to date).
- **Member**; [Scientific Committee, 9th International Conference on Water and Flood Management](#) (ICWFM 2023), held on 14-16 October 2023, BUET, Palasi, Dhaka 1000, Bangladesh
- **Member**; Annual Research Review on Agricultural Water Management of National Agricultural Research System (NARS) Institutes, Bangladesh (from 2015 the present).
- **Expert Member**; R&D Thematic Group on Water Supply and Sanitation for the Policy Support Unit of Local Government Engineering Department of Govt. of Bangladesh; (from 2012 to the present).
- **Discussant**; Seminar on "[Climate Change in Bangladesh: Impacts on Agriculture](#)", held on 22 February 2024 at Institution of Engineers, Bangladesh".
- **Co-Chair**; International Symposium on Environment, Disaster and Health, held on 18-21 December 2019, University of Dhaka, Bangladesh.
- **Co-Chair**; 2nd Int’l Convention of Geoscience and Remote Sensing, held on 8-9 Nov 2017 Las Vegas, Nevada, USA in 2017.
- **Session Chair**. Paper on “Urban sustainability in the context of rapidly urbanizing cities in Asia”. Presented by Lai-Choo Malone Lee, Director, Centre for Sustainable Asian Cities, Singapore at Oxford Round Table on Environment, Climate Change and Global Warming, held on 22-25 July 2015 at Harries Manchester College, the University of Oxford, **UK**.
- **Keynote Speaker**: Improving climate change adaptation through crop simulation model by at 5th Symposium on the Development and Application of Agricultural System Models, held on November 11-14, 2018, **Nanjing, China**.

- **Invited Speaker;** Sustainability of groundwater use for irrigation in the dry-season crops in the Northwest region of Bangladesh” presented at [Oxford Round Table Conference on Environment, Climate Change and Global Warming](#), held on 22-25 July 2015 at Harris Manchester College, [the University of Oxford, UK](#).
- **Contributor;** “[Building resilient food systems in Bangladesh](#)” at Global Forum HLPE-FSN consulted on the scope of the report in 2024, FAO of the United Nations.
- **Contributor;** “[Agrofood System for Climate Action](#)” for the FAO Science and Innovation Forum 2023, FAO of the United Nations.
- **Contributor;** “[Realization of the Human Right to Adequate Food](#)” for the 20th anniversary of the Right to Food Guidelines, Global Forum on Food and Nutrition Security (FSN 2023), FAO of the United Nations.

Membership

- **Member;** Environmental & Water Resources Institute, USA since 2005 to 2006.
- **Member;** Bangladesh Association for the Advancement of Science, since 1997 to 1998.
- **Member;** Institution of Engineers, Bangladesh, M/15449, since 1996 to the Present.
- **Member;** Krishibid Institution of Bangladesh, since 1996 to the present
- **Member;** Bangladesh Association for the Advancement of Science BAASVII M-87 from 1996 to the present.
- **Member;** Japanese Society of Irrigation, Drainage & Reclamation Engineering, since 2005 to 2006.
- **Life Member;** Japanese Universities Alumni Association in Bangladesh JUAAB LM93, from 1996 to the present.

Interest Areas

- Research and Teaching, Advisory Services, PhD/Master’s Student Supervision

Teaching, research and consultancy experiences (if any)

- **Environmental and Social Expert,** Evaluation of Agro-Meteorological Information Systems Development Project (AMISDP; 2017-24); Kranti Associates, Department of Agricultural Extension, and the World Bank (from March 2023 to the Present).
- **Disaster Risk Management Specialist** (STC), SAR-Climate Change and DRM Cluster, The **World Bank**, Bangladesh (from Oct 2023 to June 2024).
- **Environmental Safeguard Consultant,** Bangladesh Rural Water, Sanitation and Hygiene Project (2021-25, \$500M) of **PKSF** co-financed by the Government of Bangladesh and the World Bank (January 2022 to February 2024).
- **Adjunct Professor (full time),** BRAC JPGSPH, BRAC University (Jan 2019 to June 2021)
 - ✓ **Principal Investigator** “Consumer awareness of nutrition, food safety and hygiene” (FAO, USAID and EC and the Food Planning and Monitoring Unit (FPMU) of GOB) (2020-21), and
 - ✓ **Principal Investigator,** Sustainability of WASH for Rohingya and Host Communities in 2019
 - ✓ **Examiner,** Doctoral Committee, Institute of Water and Flood Management, BUET, Dhaka (from 2021 to the Present).
 - ✓ **Course Content development:** Water, Sanitation, and Hygiene
- **Senior Research Fellow and Mentor,** BRAC Research and Evaluation Division, 75 Mohakhali, Dhaka 1212 (2012-2018).
 - ✓ **Examiner,** Doctoral Committee, Institute of Water and Flood Management, BUET, Dhaka (from 2017 to 2019).
 - ✓ **Dissertation title:** Application of Remote sensing Data in Disaster Management
 - ✓ **Supervisor six students,** Summative Learning Program (SLP), Climate Change and Environment Cluster, BRAC University, Dhaka (2015).
 - ✓ **Topics of studies under SLP is given below (PhD/Masters Thesis supervision)**
 - **Lecture:** Application of GPS and GIS in Public Health
 - ✓ **Site Preceptor,** MPH Practicum Program, Milken Institute SPH, , George Washington University, USA (2015).
 - **Tecaching course on Fecal Sludge Management (FSM) in the South Asia (Virtual lecture)**
- **Research Fellow and Mentor,** BRAC Research and Evaluation Division, 75 Mohakhali, Dhaka 1212 (2009-2012), &
 - **Principal Investigator** “Sustainability of groundwater use for food security in the NW Bangladesh” (FAO, USAID and EC and Food Planning and Monitoring Unit (FPMU) of GOB) (2011-12).

BRACU JOB APPLICATION

- **Associate Professor**, Department of Environmental Science and Disaster Management, Noakhali Science and Technology University, Noakhali (2012).
 - *Course curriculum development for the ESDM*
 - **Teaching course:**
 - *ESDM-102: Introduction of Environmental Science and Disaster Management*
- **Principal Investigator and Mentor**, “Impact of intensive cropping on degradation of natural resources in some selected AEZ of Bangladesh”, technical assistant from the FAO, USAID and EC and Food Planning and Monitoring Unit, **GOB** (2007-2008).
- **Education Advisor**, The Japanese University Alumni Association (JUAAB), the Embassy of Japan in Bangladesh (2008).
- **Project Director**, Shallow-groundwater Quality Assessment Project, and Agricultural Engineer, Department of Agricultural Extension, Ministry of Agriculture, Khamarbari, Dhaka (March 1997-Sept 2003).
- **Agricultural Engineer**, Department of Agricultural Extension, Ministry of Agriculture, Nabiganj/Habiganj & Shibpur/ Narsingdi, Dhaka (March 1997-June 2002).
- **Teaching Assistant**, Department of Water Resources Engineering, Bangladesh University of Engineering and Technology, Dhaka (Aug 1998-Sept 1999).

Name of the Courses Interested to Teach

ENV 101 Introduction to Environmental Science MPH 541 Environment, Health and Climate Change DMG619 Disasters and Disaster Management Practices in Bangladesh	<i>Resilient Food System</i>
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Ph.D./Master’s Thesis Supervision

- I have supervised both PhD (two PhD students; one already graduated), master’s students (20ns) and mentored over 30 research associate and research fellow from national and international universities as follows:

Students details including their thesis title are as follows (20 nos):

- **Sania Binte Mahtab** (PhD student; Institute of Water and Flood Management, and Assistant Professor, Water Resources Engineering Department, Bangladesh University of Engineering & Technology, Dhaka 1000.
Thesis topic: Non-stationary estimation of extreme design rainfall at daily and sub-daily scale in a changing climate {from 2021 to the Present).
- **Ariful Islam**
 Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka
Master’s thesis: Assessment of vegetation damage of the Sundarbans and Storm Surge Inundation in the Southwest Coastal Region of Bangladesh for three recent Cyclones using Satellite images (Master degree awarded in April, 2022).
- **Abul Fattah M. Tarekul I**
- **slam** (PhD on Water Resource Management).
Thesis title: Assessment of wheat productivity of wheat and maize under changing climate in the NE Bangladesh using RS data and crop modelling. Institute of Water and Flood Management of Bangladesh University of Engineering and Technology, Dhaka 1000. Graduated on 17 December 2019).
- **Md. Murad Hasan**
 Institute of Water and Flood Management, Bangladesh University of Engineering & Technology, Dhaka
 Master’s thesis on “Drought impacts in natural resources in the Northwest region of Bangladesh”; Master degree awarded in 2013.
- **Md. Shafiqul Islam**
 Department of Environment Science, Jahangirnagar University, Savar, Bangladesh
 Master’s thesis on “Groundwater quality assessment in the NW region of Bangladesh”, Master degree awarded 2012.
- **Md. Jamal Hossain**
 Department of Environment Science, Jahangirnagar University, Savar, Bangladesh
 Bachelor’s project on “Water quality of surface and groundwater for irrigation and drinking in the NW region of Bangladesh”, Bachelor degree awarded 2012.
- **Humyra Hasnat**
 James P Grant School of Public Health of BRAC University
 Summative Learning Project (SLP) on “Effects of flood on water, sanitation and hygiene and coping strategies for reduction the effects of flood in Matlabupazilla, Chadpur”; MPH degree awarded 2015.

- **Moe Aye** (from Philippine)
James P Grant School of Public Health of BRAC University
SLP on “Does flood always bring negative effects? A study on the relationship between flood and pneumonia, and measures for reduction of flood related pneumonia in MatlabUpazila, Bangladesh”; MPH degree awarded 2015.
- **NasrullahNaich, MS** (from Pakistan)
James P Grant School of Public Health of BRAC University
SLP on “Relationship between flood and diarrhea: A study among children under five living in flood affected area in Matlabupazila, Bangladesh”; MPH degree awarded 2015.
- **Rifat Ues Sayeed**
James P Grant School of Public Health of BRAC University
SLP on “Effect of river flood in morbidity and mortality and measures taken to reduce those: A Cross-sectional study among the urban people of Matlab, Bangladesh”; MPH degree awarded 2015.
- **Shaimaarzuman Shahin, MS**
James P Grant School of Public Health of BRAC University
SLP on “A study on nutritional Status of under five year children in flood affected area- Matlabupazila, Bangladesh”; MPH degree awarded 2015.
- **Nasima Afsari**
MPH student of Department of Global Health, George Washington University, USA
Practicum plan on “Improving fecal sludge management system in South East Asian Countries”, completed 2015.
- **Dana Ansberga (from Australia)**
Aarhus University, Australia
Master thesis on “Status of food security and climate change adaption strategies: Comparison between Semi-dry and Wetland areas in Southwest Bangladesh”; Master degree awarded in 2013.

Mentoring (Out of 30)

- **Tahera Akter**, MSc in GIS and Urban Planning
Research Fellow, Research and Evaluation Division, BRAC
- **Sumon K Saha**, MSc in Agricultural Science
Senior Research Associate, Research and Entrepreneurship Development Ltd
Supervisor for conducting research on WASH and DMCC (Disaster, Environment and Climate Change) issues.
- **Tridib Roy**, BA, MSc
Senior Research Associate, James P Grant School of Public Health, BRAC University
- **Mehrab Ali**, MSc in Economics
Senior Research Associate, Research and Evaluation Division, BRAC
- **Ratnajit Saha**, MSc in Env Science
Senior Research Associate, Research and Evaluation Division, BRAC
Supervisor for conducting research on WASH and DMCC (Disaster, Environment and Climate Change) issues.
Mahmood Parvez, BSc Eng in Water Resources
Research Associate, Research and Evaluation Division, BRAC
Supervisor for conducting research on WASH and DMCC (Disaster, Environment and Climate Change) issues
- **Sifat E Rabbi**, MS in Geography and Environmental Science
PhD Candidate of PIK - Potsdam institute for Climate Impact Research
Senior Research Associate, Research and Evaluation Division, BRAC
Supervisor for conducting research on WASH and DMCC (Disaster, Environment and Climate Change) issues.
- **Jarrold P. Vassallo** BEd (Hons) (Univ. of Sydney), MPhil (Univ. of Cambridge)
PhD Candidate; Judge Business School, University of Cambridge
Topic of research “Climate change impact of landuse change and productivity in last 30 years in Bangladesh”.

Workshop Details (30 nos.)

- **Presentation** on ‘Environmental safeguard efforts and compliance’ at Mid Term Review (MTR2024) Workshop for Bangladesh Rural WASH for Human Capital Development Project (2021-25), held at World Bank Conference Hall, Dhaka, on 4 March, 2024,
- **Presentations on** the ‘Necessity to address environmental, social, and technological safeguards’ at ‘Training workshop’ organized by MAMATA, a partner organization of PKSf, held at Putia and Mirshrai branch offices, Chottogram, held on 16 and by 17 August 2022.
- **Presentation** on the ‘necessity to address environmental, social, and technological safeguards’ at ‘Training workshop among staffs, Focal Person, Area Manager, Manager and Field officers’ organized by PIDIM Foundation, a partner organization of PKSf, held at Putia and Mirshrai branch offices, Chottogram, held on 26 July 2022.

- **Facilitator & Environmental Safeguard Expert**, I gave a presentation on “Progress on Environmental and Social Safeguards: Challenges and Opportunities” at Training Workshop among project staff and core staff of BASA Foundation, held on 6 June at BASA office, Valuka, Mymensingh.
- **Facilitator & Environmental Safeguard Expert**; I gave a presentation on “Progress on Environmental and Social Safeguards: Challenges and Opportunities” at 1st Annual Coordination Meeting of BD Rural WASH for HCD Project at PKSf Bhaban (May 26, '22).
- **Facilitator & Environmental Safeguard Expert**; I gave a presentation on Environmental and Social Safeguards: Challenges and Opportunities at Local Entrepreneurship’s training and visited intervention sites at Jamalpur and Sherpur, during May 31-June 02, '22).
- **Principal Investigator**; I presented paper “Assessing food security, water productivity and poverty-A comparative study between South-West Bangladesh & West Bengal”, at “Policy Dissemination Dialogue Workshop on Food Security by IUCN on 16 April 2014, Kolkata, **India**.
- **Invited Speaker**; Impacts, vulnerability and adaptation options of drought on water and health sector of Bangladesh; presented at the National Workshop on Drought Risk Management in Bangladesh organized by Bangladesh Centre for Advanced Studies and CapNet held on 1-2 July 2015, **Dhaka**.
- **As a Facilitator, I presented a paper** “Impact of climate change on agriculture and food security” at Regional Workshop on Impact of Climate Change on Rural livelihood 2- 4 December, 2019 at CCDB HOPE Foundation Baroipara Savar **Dhaka**.
- **Public Lecture**; Impact of BRAC’s WASH implementation works: Research findings from baseline, midline and end-line surveys, presented at Dissemination Workshop on BRAC WASH Program organized by BRAC on 14 January 2015, BRAC Center Inn, Dhaka.
- **Public Lecture**; Sustainability of groundwater use for irrigation in NW Bangladesh, presented at the Research to Inform Food and Nutrition Security Policies organized by FAO-GOB on Nov 28-29, 2012, Dhaka.
- **Public Lecture** on “Climate Change Impact on Agriculture” at Training Workshop on “**Introduction to Climate Change**”, held on 16-20 Sept 2015 in Dhaka, organized by the Center for Climate Change and Environmental Research (C3ER) of BARC University.
- **Invited Lecture** on “Environmental, health and safety & legal issues in managing Micro-enterprise” at the Workshop on “Training Program on Small Initiative Management and Finance” for Partner Organizations of PKSf-an apex organization established by the Government of Bangladesh where 22 staff (operation and management employee), held at PKSf Training Room on 3-7 March 2024.
- **Invited Lecture** on ‘Environmental safeguards: Challenges and opportunities’ at Upazila Facilitators (UF) Training workshop on “Bangladesh Rural WASH for Human capital Development Project, organized by Technical Assistant (TA) Firm, held at RDRS Conference Hall, Kurigram, Rangpur on 10-11 April, 2023.
- **Invited Lecture** on ‘Necessity to address environmental, social, and technological safeguards’ at Training workshop, organized by the HOPE as a partner organization of PKSf, Nabinagar Upazila, Brahmanbaria district, held on 20 September 2022.
- **Invited Lecture** on ‘Environmental safeguards: Challenges and opportunities’ at Upazila Facilitators (UF) Training Workshop on Bangladesh Rural WASH for Human capital Development Project, organized by Technical Assistant (TA) Firm, held at RDRS Conference Hall, Kurigram, Rangpur on 10-11 April, 2023.
- **Invited Lecture** on ‘Necessity to address environmental, social, and technological safeguards’ at Training workshop, organized by the HOPE as a partner organization of PKSf, Nabinagar Upazila, Brahmanbaria district, held on 20 September 2022.
- **Invited Lecture** on ‘Necessity to address environmental, social, and technological safeguards’ at ‘Training workshop’ organized by MAMATA, a partner organization of PKSf, held at Putia and Mirshrai branch offices, Chottogram, held on 16 and 17 August 2022.
- **Invited Lecture** on Necessity to address environmental, social, and technological safeguards’ at ‘Training workshop among staffs, Focal Person, Area Manager, Manager and Field officers’ organized by PIDIM Foundation, a partner organization of PKSf, held at Putia and Mirshrai branch offices, Chottogram, held on 26 July 2022.
- **Invited Lecture** on “Progress on Environmental and Social Safeguards: Challenges and Opportunities at Training workshop among project staff and core staff of BASA Foundation, held on 6 June at BASA office, Valuka, Mymensingh.
- **Invited Lecture** on Progress on Environmental and Social Safeguards: Challenges and Opportunities at 1st Annual Coordination Meeting of BD Rural WASH for HCD Project at PKSf Bhaban (May 26, '22).
- **Invited Lecture** on Environmental and Social Safeguards: Challenges and Opportunities at Local Entrepreneurship’s training workshop at Jamalpur and Sherpur, during May 31-June 02, '22.

- **Invited Speaker;** Sustainability of groundwater use for irrigation in NW Bangladesh, presented at the Research to Inform Food and Nutrition Security Policies Workshop organized by FAO-GOB on Nov 28-29, 2012, Dhaka.
- **Invited Speaker;** Food security, water productivity and poverty- A comparative study, presented at Joint Meeting to Develop Research Methodology organized by IWMI-IUCN on 1-2 Feb 2013 **Delhi, India.**
- **Invited Speaker;** Conducted training on “Environmental, health and safety & legal issues in managing Micro-enterprise” at Workshop on “Training Program on Small Initiative Management and Finance”, where 22 staff (operation and management employee) of Partner Organizations of PKSf held at PKSf Training Room, on 21-25 January 2024.
- **Invited Lecture on** Impact of BRAC’s WASH implementation works: Research findings from baseline, midline and end-line surveys, at Dissemination Workshop on BRAC WASH Program organized by BRAC on 14 January 2015, BRAC Center Inn, Dhaka.
- **Invited Speaker;** Impact of intensive cropping on the degradation of natural resources in some selected AEZ Regions of Bangladesh, presented at Workshop on Informed Policy Making for Food Security: Food Policy Monitoring Unit of Ministry of Food and FAO the UN on 18-19 February 2009. Dhaka.

Conference (46 nos.)

- **Co-Chair;** 2nd Int’l Convention of Geoscience and Remote Sensing, held on 8-9 Nov 2017 Las Vegas, Nevada, USA in 2017.
- **Co-Chair;** International Symposium on Environment, Disaster and Health, held on 18-21 December 2019, University of Dhaka, Bangladesh.
- **Session Chair.** Paper on “Urban sustainability in the context of rapidly urbanizing cities in Asia”. Presented by Lai-Choo Malone Lee, Director, Centre for Sustainable Asian Cities, Singapore at Oxford Round Table on Environment, Climate Change and Global Warming, held on 22-25 July 2015 at Harries Manchester College, the **University of Oxford, UK.**
- **Keynote Speaker** Improving climate change adaptation through crop simulation model by at 5th Symposium on the Development and Application of Agricultural System Models, held on November 11-14, 2018, **Nanjing, China.**
- **Invited Speaker;** Sustainability of groundwater use for irrigation in the dry-season crops in the Northwest region of Bangladesh” presented at [Oxford Round Table Conference on Environment, Climate Change and Global Warming](#), held on 22-25 July 2015 at Harris Manchester College, [the University of Oxford, UK.](#)
- **Invited Speaker;** Increased uses of groundwater in the northwest region of Bangladesh: A major concern for its sustainability through improving management practices and addressing adverse impact of climate change, presented at International Conference on Environment, Earth and Sustainable Technology (ICEEDT2020), held on 25-29 January 2020, Dhaka.
- **Invited Speaker;** Challenges and opportunities of implementation research, presented at Global Conference on Implementation Science (GCIS) held on 29 June- 01 July, 2019 at Radisson Blu Water Garden, Dhaka.
- **Invited Speaker;** Exposure to drinking arsenic, iron and salinity contaminated water in the coastal area of Bangladesh: A Pilot Study in Tala Union of Satkhira District”, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in **Dhaka.**
- **Invited Speaker;** Assessment of water balance in the South-west coastal region of Bangladesh, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in **Dhaka.**
- **Invited Speaker;** Willingness to pay for safe drinking water in the Coastal area of Bangladesh: A Pilot Study in Tala Union, Satkhira, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in **Dhaka.**
- **Invited Speaker;** Impact of integrated use of WASH on prevention and control of water-borne diseases: BRAC’s intervention in rural areas of Bangladesh” at Bangladesh Realities and Way Forward- A Policy & Solution Conference: Realizing Universal Health Coverage Goals, organized by Power & Policy Research Centre, supported by the Rockefeller Foundation, The World Bank on 9-11 April 2015, Radisson Blue Water Garden, **Dhaka.**
- **Invited Speaker;** Assessing exposure to drinking water contaminated by arsenic and iron: potential measures for improving access to safe and affordable water in the climate change vulnerable coastal area of Bangladesh, presented at [Geological Society of America](#) (GSA) online on 26-30 October 2020.
- **Invited Speaker;** The use of pesticides in vegetable farms and its impact on health of farmers and environment” presented at Annual Scientific Conference (ASCONXIII). Dhaka organized by ICDDR’B on 14-17 March 2011 in Dhaka.
- **Invited Speaker;** Challenges and opportunities of implementation research, presented at Global Conference on Implementation Science (GCIS) held on 29 June- 01 July, 2019 at Radisson Blu Water Garden, **Dhaka.**

- **Invited Speaker**; Application of DSSAT model for assessing climate change effects on boro rice production in Bangladesh, presented at the 1st International Conference on Agricultural Models and Their Application in Modern Sustainable Agriculture & The 5th Symposium on the Development and Application of Agricultural System Models, held on November 11-14, 2018, in **Nanjing China**.
- **Invited Speaker**; Flash Flood'17: Perspective from *haor* area in the North-East Bangladesh, presented at BAPA-BEN Special Conference on Flood, Water logging and Landslide, held on 12-13 January 2018 at Krishibid Institution of Bangladesh, Dhaka.
- **Invited Speaker**; Safety of food: Hand washing with soap at rural households of Bangladesh, presented at 20th Global Summit on Food Processing, safety and Technology, held on 6-8 Nov 2017 Las Vegas, **Nevada, USA**.
- **Invited Speaker**; Application of RS information for assessing excess water on crop productivity & associated costs: a case study in northwest Bangladesh, presented at 2nd Int'l Convention of Geoscience and Remote Sensing, 8-9 Nov 2017 Las Vegas, Nevada, **USA**.
- **Invited Speaker**; Impact of flash flood'17 on livelihood and food habit of *haor* dwellers in northeast Bangladesh: BRAC's support to reduce vulnerability, presented at 2nd Int'l Convention of Geoscience and Remote Sensing, 8-9 Nov 2017 Las Vegas, **Nevada, USA**.
- **Invited Speaker**; Risk of shallow tubewells related to microbial contamination of drinking water in rural Bangladesh: A challenge to SDGs, presented at Environmental and Energy Resource Management Summit, held on 9-11 Nov 2017 **Washington DC, USA**.
- **Invited Speaker**; Effects of climate change and boro rice area on the sustainability of groundwater in the northwest Bangladesh, presented at Environmental and Energy Resource Management Summit, held on 9-11 Nov 2017 **Washington DC, USA**.
- **Invited Speaker**; Assessing ET of crop using remote sensing information and empirical model, presented at Global Conference on International Society of Ecological Modelling (**ISEM2016**), held on 8-12 May 2016 at Towson University, **MD, USA**.
- **Invited Speaker**; Exposure to drinking arsenic, iron and salinity contaminated water in the coastal area of Bangladesh: A Pilot Study in Tala Union of Satkhira District, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in Dhaka.
- **Invited Researcher**; Assessment of Water Balance in the South-west coastal region of Bangladesh, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in Dhaka.
- **Invited Speaker**; Willingness to pay for safe drinking water in the Coastal area of Bangladesh: A Pilot Study in Tala Union, Satkhira, presented at the Conference on Coastal and Marine Environment, organized by BAPA-BEN held on 8-9 January 2016 in Dhaka.
- **Invited Speaker**; Groundwater sustainability for ensuring food security" presented at 2nd Int'l. Conf. on Global Food Security, organized by Elsevier and Cornell University, held on 11-14 October 2015, Cornell University, Ithaca, **NY, USA**.
- **Invited Speaker**; Sustainability of groundwater use for irrigation in the dry-season crops in the Northwest region of Bangladesh, presented at Oxford Round Table Conference on Environment, Climate Change and Global Warming organized by Oxford University, UK held on 22-25 July 2015; at Harris Manchester College, **University of Oxford, UK**.
- **Invited Speaker**; Sustainability of WASH: Hygiene behavior in rural settings of Bangladesh, presented at the 38th WEDC Conference on WASH Services Beyond 2015: Improving Access and Sustainability organized by Loughborough University, UK held on 27 July to 1 August 2015; **Loughborough University, UK**.
- **Invited Speaker**; Impacts, vulnerability and adaptation options of drought on water and health sector of Bangladesh, presented at the National Workshop on Drought Risk Management in Bangladesh organized by Bangladesh Centre for Advanced Studies and CapNet held on 1-2 July 2015, Dhaka.
- **Invited Speaker**; Impact of Integrated Use of Safe Water, Sanitation and Hygiene on Prevention and Control of Water-borne Diseases: BRAC's intervention in rural areas of Bangladesh, presented at Bangladesh Realities and Way Forward- A Policy & Solution Conference: Realizing Universal Health Coverage Goals organized by Power & Policy Research Centre (PPRC), supported by The Rockefeller Foundation, The World Bank on 9-11 April 2015, Radisson Blue Water Garden, Dhaka.
- **Invited Speaker**; Planning assessment of economic benefit in case of proper practices of irrigation water management followed in Bangladesh, presented at Int. Conf. on Regional Cooperation on the Transboundary Rivers (ICRCTR 2004): Impact of the Indian River Linking Project organized by BAPA-BEN on 17-19 December 2004 in Dhaka.
- **Principal Investigator**; Assessing Food Security, Water Productivity and Poverty-A comparative study between South-West Bangladesh & West Bengal, presented at Policy Dissemination Dialogue on Food Security by IUCN on 16 April 2014, Kolkata, **India**.

- **Invited Speaker;** Cooperation-conflict in the management of groundwater, presented at the Cooperation-Conflict in the Management of CC organized by the CoCooN – DFID on Sep 2-7 2012, **Nairobi, Kenya**.
- **Invited Speaker;** Effect of climate change and boro rice production on GWT in the Rajshahi district of Bangladesh, presented at the National Conference on Community Based Adaptation to Climate Change organized by the BCAS on 8-9 April 2012, Dhaka.
- **Public Lecture;** Effect of climate change and boro rice production on GWT in the Rajshahi district of Bangladesh, presented at the National Conference on Community Based Adaptation to Climate Change organized by the BCAS on 8-9 April 2012, Dhaka.
- **Public Lecture;** The use of pesticides in vegetable farms and its impact on health of farmers and environment, presented at Annual Scientific Conference (ASCONXIII). Dhaka organized by ICDDR'B on 14-17 March 2011 in Dhaka.
- **Invited Speaker;** The use of pesticides in vegetable farms and its impact on health of farmers and environment, presented at Annual Scientific Conference (ASCONXIII). Dhaka organized by ICDDR'B on 14-17 March 2011 in Dhaka.
- **Invited Speaker;** Women's role in managing household water in rural Bangladesh, presented at the Intl Conf. on Environmental Science & Technology (ICEST2010) organized by American Academy of Sciences on 12-16 July 2010, **TX, USA**.
- **Invited Speaker;** Status of arsenic contamination in groundwater of southern Bangladesh: A population-based survey, presented at Intl Conf. on Environmental Science & Technology, organized by American Academy of Sciences on 12-16 July 2010, **TX, USA**.
- **Invited Speaker;** Application of pesticide use in vegetable farms and its environmental and health impact, presented at Intl Conf. on Environmental Science & Technology (ICEST2010) organized by American Academy of Sciences on 12-16 July 2010, **TX, USA**.
- **Invited Speaker;** Environmental assessment of drought in the northwest region of Bangladesh, presented at the Int'l Conf. on Bangladesh Environment (ICBEN 2010) organized by BAPA-BEN on 3-4 January 2010, Dhaka.
- **Invited Speaker;** Pesticide occurrence in shallow depths of groundwater in central Bangladesh, presented at Int. Conf. on Water and Flood Management (ICWFM 2007) organized by Bangladesh University of Engineering and Technology on 12-14 March, 2007, Dhaka.
- **Doctoral Student;** Relationship between soil surface conditions and spectral reflectance, presented at the Joint Research Symposium of the Arid Land Research organized by Arid Land Research Center, Tottori University, Tottori on 6 Dec 2005, **Japan**.
- **Doctoral Student;** Shallow groundwater quality assessment due to pesticides use in the agricultural field of SibpurUpazila, Bangladesh, presented at the Int. Conf. on Monitoring, Prediction and Mitigation of Water-Related Disaster, MPMD-2005 organized by the Kyoto University, **Japan**.
- **Doctoral Student;** Development of arsenic database using GIS, presented at the 6th Int. Symposium on Plant Responses to Air Pollution and Global Changes (APGC2004) Tsukuba University, Japan on 19-22 October 2004 Tsukuba, **Japan**.

Seminar (14 nos)

- **Session Chair;** Seminar on "Drinking from the deep end: Impact of Deep Tube-well Water Supply on Child Mortality" presented by Faiyaz Talukdar of Georgetown University, USA on 8 September 2015, held in BRAC Cebtre, Dhaka in 2015.
- **Invited Lecture;** "Environmental and health impact of drought in the NW Bangladesh", presented at the Seminar on "Green Economy and Sustainable Development", organized by **IUBAT** on 23 Jan 2013, Dhaka.
- **Virtual Lecture;** "Knowledge sharing Webinar on clean cooking and air pollution related research in Asian Countries", organized by [Beijing University of Chemical Technology \(BUCT\)](#), held on 27 October 2021.
- **Invited Speaker;** Virtual lecture on "Clean cooking situation in rural Bangladesh: Collaboration and reaching SDG 7" at Clean Cooking Situation and Rural Energy Nexus in Asian Countries, organized by [Beijing University of Chemical Technology \(BUCT\)](#), held on 26 August 2022.
- **Invited Speaker;** "Exposure to drinking contaminated water due to arsenic, salinity and iron: Policy recommendations for improving access to safe and affordable water in the coastal area of Bangladesh" presented at International Conference on Environment, Disaster and Health, held on 18-20 December 2019 at University of **Dhaka**.
- **Invited Speaker;** "Research Career in Bangladesh & Global Perspective", presented in the seminar on the same topic, held on 23 March 2019 in Jagannath University, organized by Youth Centre for Research and Action (<https://ycfra.com/>), **Dhaka**.

- **Principal Investigator;** “Flash flood’17 in haor: Implications in agriculture, livelihood, food security and health held on 15 September 2017 at RED Seminar Room, BRAC Centre Inn. Dhaka 1212.
- **Principal Investigator;** “Ensuring access to safe drinking water in the coastal area of Bangladesh”, organized by Research and Evaluation Division, held on 12 December 2015 in BRAC Centre Inn.Mohakhali, Dhaka 1212.
- **Principal Investigator;** “Water Balance Study in the Coastal area”, held on 10 December 2014 at Seminar Room, FAO Representation in Bangladesh, Dhanmoni, Dhaka 1000.
- **Principal Investigator;** Food Security, Water Productivity and Poverty-A comparative study, held on 22 February 2014, BRAC Centre Inn, Dhaka.
- **Principal Investigator;** “Impact of intensive cropping on degradation of natural resources in different AEZ of Bangladesh”, held on January 15, 2009 CASEED Meeting room, Dhanmondi R/A, Dhaka 1000.
- **Doctoral Seminar;** “Evaluation of local environmental conditions using RS data”, Arid Land Research Centre (ALRC), Tottori University, Tottori July 20, 2006
- **Research Seminar;** “Relationship soil-moisture condition and spectral reflectance”, Arid Land Research Centre (ALRC), Tottori University, Tottori April 5, 2005.
- **Master’s Seminar;** “Evaluation of unsaturated hydraulic conductivity of soil using soil moisture retention data”, Department of Water Resources Engineering, BUET, held on August 22, 2000.

Research Details (if any)

Research Grant Awards and Experiences

- I have led over 50 research projects and Principal Investigator or Co-Investigator and actively involved in national and international collaborations, such as Ministry of Science and Technology, Bangladesh, Food Planning and Monitoring Unit (FPMU)/Ministry of Food, GOB, Dept of Agricultural Extension, Bangladesh Water Development Board, the World Bank, FAO, USAID, EU, International Water Management Institute (IWMI), IUCN, UN Foundation, UN Women, BRAC, Netherlands Government, AusAID and DFID, Yale and Stanford University, CCDB, EIMS, etc. A list of selected studies is given below:

On-going Studies

2023-24 **Environmental and Social Expert**

End-term Evaluation, Project Completion and Feasibility study for the future interventions/phase, 2023-24 Agro-Meteorological Information Systems Dev. Project (AMISDP) (Kranti Associates, DAE, and the World Bank).

2024 **Team Lead and Chief Investigator**

Impact Evaluation of Green Innovation for Resilience Building (GIRB) Project (CCDB Bangladesh)

Completed Studies out of 70

2023-24 **Disaster Risk Management Specialist**

Enhancing Institutional Capacity on Emergency Preparedness and Response (The World Bank and Government of Bangladesh)

2023-24 **Environmental Safeguard Consultant**

Environmental Safeguard Efforts and Compliance Bangladesh under Rural Water, Sanitation and Hygiene Project (2021-25), of PKSF co-financed by the Government of Bangladesh (PKSF, The World Bank and AIB).

2023-24 **Team Lead and Consultant**

Evaluation of Comprehensive Poverty Reduction Program (CPRP-V)(CCDB Bangladesh).

2022-23 **Consultant**

Situation of Clean stoves and fuels in Bangladesh (Beijing University of Chemical Technology, China; for Beijing University of Chemical Technology, China).

2022-23 **Drought Vulnerability Expert**

Develop drought prediction model and weekly outlook, Development of hydrological services products (Bangladesh Water Development Board, BWDB C15), (EIMS, BWBD and the World Bank).

2023 **Team Lead**

Project evaluation of creating youth employment and Child protection project (Comprehensive Poverty Reduction Programme (CPRP) of CCDB).

2022 **Team lead and Consultant**

Livelihood and market assessment at Bandarban (Comprehensive Poverty Reduction Programme (CPRP) of CCDB).

2020-21 **Principal Investigator**

Household finished flooring as a guard against enteric illness in children (BRAC University)

2020-21 **Principal Investigator**

Consumer awareness of nutrition, food safety and hygiene (FAO, USAID and EC and the Food Planning and Monitoring Unit (FPMU) of GOB).

2020-21 **Co-Principal Investigator**

Household food insecurity after the early monsoon flash flood of 2017 among wetland (Haor)

- 2020 **Principal Investigator**
Effectiveness of WASH services for Rohingya and host communities in the Cox's Bazar (The Embassy of the Kingdom of the Netherlands (EKN) through BRAC WASH Program).
- 2017-18 **Co-Principal Investigator**
Impacts of climate change on groundwater level and irrigation cost in a groundwater dependent irrigated region (Tohoku University, Japan)
- 2017-18 **Co-Principal Investigator**
Exploring suitable sites for installing safe drinking water wells in coastal Bangladesh (BRAC WASH Program)
- 2015-17 **Principal Investigator**
Microbial contamination of drinking water from risky tubewells situated in different hydrological regions of Bangladesh (BRAC WASH Program)
- 2016-17 **Co-Principal Investigator**
Groundwater-dependent irrigation costs and benefits for adaptation to global change (Tohoku University, Japan)
- 2017-18 **Principal Investigator**
Water quality and willingness to pay for safe drinking water in the coastal area of Bangladesh (BRAC WASH Program)
- 2017-18 **Co-Principal Investigator**
Assessing effectiveness of recent humanitarian responses in different disaster prone areas of Bangladesh (AusAid & DFID (Strategic Partnership Agreement (SPA)).
- 2015-17 **Co-Principal Investigator**
Optimum abstraction of groundwater for sustaining groundwater level and reducing irrigation cost (Tohoku University, Japan)
- 2015-17 **Co-Principal Investigator**
Groundwater-dependent irrigation costs and benefits for adaptation to global change (Tohoku University, Japan).
- 2017 **Environmental Specialist**
Environmental and social impact assessment of Dhaka-Chattagram-Cox's Bazar Rail Preparatory Facility Project (DCCBRPFP) (ENRAC, BCL and The World Bank)
- 2017 **Principal Investigator**
Impact of 2017 early monsoon flash flood: potential measures to safeguard livelihoods from extreme climate events in the haor area of Bangladesh (Disaster Risk Management Program, BRAC),
- 2016-17 **Bioenvironmental Science Expert**
Developing a bankable project proposal on adaptation initiative for climate vulnerable offshore small Island and Charland in Bangladesh (UNDP through C3ER of BRAC University).
- 2017 **Principal Investigator**
Impact of flash flood'17: Perspective from the haor area of Bangladesh (AusAid & DFID (Strategic Partnership Agreement (SPA) through BRAC WASH Program).
- 2015-17 **Principal Investigator**
Effectiveness of a community-based water, sanitation, and hygiene (WASH) intervention in reduction of diarrhoea among under-five children: Evidence from a repeated cross-sectional study (2007–2015) in rural Bangladesh (BRAC WASH Program)
- 2015 **Co-Principal Investigator**
Process evaluation of the project on vulnerability reduction of women affected by climate change in coastal area of Bangladesh (UN Women in 2015 through BRAC Disaster Management and Climate Change Program).
- 2015 **Co-Principal Investigator**
Value chain of agricultural products in disaster prone areas of Bangladesh, conducted (Oxfam through C3ER of BRAC University).
- 2015 **Principal Investigator**
*Sustainability of WASH implementation services for improving access to sanitation, water and hygiene practices: post-endline assessment (FAO, USAID and EC of the United Nations and Food Planning and Monitoring Unit, **GOB**).*
- 2014 **Principal Investigator**
Food security, water productivity and poverty: A comparative study between India and Bangladesh (International Union for Conservation of Nature, IUCN).
- 2014 **Consultant**
Water balance study in the coastal area of Bangladesh (FAO of the UN).
- 2014 **Consultant**
Groundwater uses and management in coastal zone of Bangladesh (International Water Management Institute (IWMI), Sri Lanka.
- 2012-13 **Principal Investigator**

- 2011-12 **Co-Principal Investigator**
Environmental sanitation at rural household in BRAC-WASH program areas (BRAC RED). Exploring the gap between hand washing knowledge and practices in Bangladesh: a cross-sectional comparative study (BRAC WASH Program)
- 2011-12 **Principal Investigator**
Sustainability of groundwater use for irrigation in the NW Bangladesh (FAO, USAID and EC and Food Planning and Monitoring Unit (FPMU) of GOB).
- 2012 **Principal Investigator**
Case studies and best practice research on empowering women through clean cookstoves projects in Bangladesh (UN Foundation, USA).
- 2012 **Principal Investigator**
Assessing land use changes and land degradation in Bangladesh (Noakhali Science and technology University).
- 2010-12 **Principal Investigator**
Pilot interventions of improved cook-stoves in rural areas: Assessment of effects on fuel use, smoke emissions and health (BRAC Research and Evaluation Division)
- 2010-11 **Co-Principal Investigator**
Indoor air pollution and its health impact (2nd phase) (Yale and Stanford University, USA)
- 2011 **Principal Investigator**
Assessing environmental and health impact of drought in the northwest Bangladesh (BRAC)
- 2010 **Consultant**
Impact of biogas plant in local environment and households' health improvement for Social Development Studies, General Economic Division (Social Development Services, General Economic Division, Ministry of Planning, GOB).
- 2009-10 **Principal Investigator**
Status of arsenic test and exposure to arsenic-contaminated tubewell water: a population based study in southern Bangladesh (BRAC WASH Program)
- 2008 **Principal Investigator**
Impact of intensive cropping on degradation of natural resources in some selected AEZ of Bangladesh (FAO, USAID and EC of the United Nations and Food Planning and Monitoring Unit, GOB).
- 2008 **Environmental and Sustainable Development Specialist**
MDG7 Needs Assessment and Costing (2009-2015) (UNDP and GED, GOB); A situation Analysis report on environment (MDG7) Bangladesh; 2008 (UNDP and GED, GOB).
- 2003-6 **Project Director**
Assessing the economic benefits of improved irrigation management: a case study of Bangladesh (Department of Agricultural Extension, GOB)
- 2002-3 **Principal Investigator**
Shallow groundwater quality due to pesticides use in agriculture field (Ministry of Science and Information & Communication Technology, Bangladesh, GOB).
- 2000-2002 **Masters Student**
Field verification of unsaturated hydraulic conductivity models based on soil moisture retention data (Water Resources Engineering Department).

Research collaborators

David Levine, The University of California; Marie-Charlotte Buisson, Researcher and Impact Evaluation, IWMI, Delhi; Corinne Heart, Director, UN Foundation, Washington D.C; Ciro Fiorillo, Chief Technical Officer, FAO; Nur A. Khondaker, AFOR, FAO Representation in Bangladesh; Bushra Nishat, Project Manager, IUCN; Mushfique Mobarak, Professor, Yale University, USA; Dr. Jay Graham, George Washington University; Dr. David Levine, Professor, California University in Berkeley, USA; Dr. S. K Bala, Professor, BUET; Dr. AKM Saiful Islam, Professor, BUET, Dr. Abdur Rashid, PSO, BARI; Dr. Bharat Sharma, Principal Researcher, IWMI, India; Geoge Ashit Singh, CCDB; Sachi Suzuki, The World Bank.

Graduate and doctoral advisors

Dr. Seiji Hayakawa, Professor, Yamaguchi University, Japan – Supervisor of Doctoral Research; Dr. AFM Saleh, Professor of BUET and Dr. Muhammed A. Bhuiyan, Lecturer and Director, RMIT University, Australia, and former Professor, Department of Water Resources Engineering, BUET – Master's Thesis Supervisor.

Record of Success in Research and Development

Throughout his time working in the field, Dr Dey has built an impressive record of success in research and development. This is an unusually strong record of success in order to develop risk assessment and policy solutions to ensure environmental safeguards for improving ecosystem, food and nutrition security, and health. Dr Dey's research has been published in some of the top publication venues in his field. Dr Dey's research has resulted in 90 publication in **peer-reviewed journal articles (17 of 30 first-authored), 13 conference papers (8 of them first-authored), 11 technical reports (10 of them first-authored), 5 first-authored research monographs, and 5 first-**

authored book chapters (Exhibits; CV; Publications Section 3.1.8), 3 first-authored to Global FSN Report, 15 first-authored abstract, and 10 as popular articles. Moreover, these papers have been published in the top journals in his field, reflecting my peers' recognition of the value of this research (Exhibits [publications, journal rankings]). Dr Dey has published papers in no fewer than 9 highly ranked peer-reviewed journals (Listed below in Publications Section 3.1.8). The prestige of these journals is outlined below:

- *The Lancet Global Health*: Impact Factor = 38.927.
- Groundwater for Sustainable Development: Impact Factor=4.9
- *Agricultural Water Management*: Impact Factor = 6.611. Ranked #7 in Agronomy & Crop Science by Google Scholar.
- *Food and Energy Security*: Impact Factor = 5.07.
- *International Journal of Hygiene and Environmental Health*: Impact Factor = 4.5
- *Exposure and Health*: Impact Factor = 8.835.
- *Frontiers in Environmental Science*: Impact Factor = 5.411.
- *International Journal of Disaster Risk Reduction*: Impact Factor = 5.0. Ranked #1 in Emergency Management by Google Scholar.
- *Water Resources Management*: Impact Factor = 4.3. Ranked #5 in Hydrology & Water Resources and ranked #10 in Water Supply & Treatment by Google Scholar.
- *BMC Public Health*: Impact Factor = 4.5. Ranked #2 in Public Health by Google Scholar.

Google Scholar rankings constitute an objective measure of the degree to which a journal has achieved a high level of influence in its field. Furthermore, as journals with high Google Scholar rankings receive more submissions than they are able to accept for publication, the selection of his research for publication in these journals therefore affirms the fact that the quality of his research has set me apart from his peers.

Experts in the field have submitted letters confirming that his record of successful research has well positioned him to continue advancing the proposed endeavor. Researchers from around the world have relied upon his research to further their own investigations in the field.

Not only have Dr Dey successfully completed and published the results of his research in the field, but his research has also gone on to influence his peers. That is, **Dr Dey's publications have been cited a total of 1,280 times** according to Google Scholar, thereby demonstrating that these publications are widely recognized and relied upon in the interdisciplinary field of Hydrology and Water Resources Management, Climate Change and Environmental Impact Assessment, Natural Hazards and Disaster management including Global Crises like, Water, and Food Security, Hygiene and Environmental Health (**Exhibit CV [citation record, Section 3.1.15]**)

Selected Publications (out of 90)

Book Chapters

1. **Dey, N.C.**, Bhuiyan, M., Parvez, M. Saha, R. Bhattacharya, P. "Exposure to Drinking Water Contaminants – Arsenic, Iron, Salinity and E.coli: Policy Recommendations for Improving Access to Safe and Affordable Drinking Water in Coastal Bangladesh", Nasreen et al. (Editor). *Disaster, Environment, and Health*, 2022. Institute of Disaster and Vulnerability Studies, The University of Dhaka.
2. **Dey, N. C.**, Akter, T., Rabbi, S. E., & Kabir, B. "Water, Sanitation, Hygiene and disaster Management". In M. Hossain, S. N. Kairy, & A. Bayes (Eds.), *Driving development : a story of BRAC's evolution and effectiveness*, 2016: 161–178. Dhaka: University Press Limited.
3. **Dey, N. C.**, T, A., & M, H., "Environment: Water, Sanitation and Hygiene. In M. Hossain & A. Bayes (Eds.), *Leading issues in rural development: Bangladesh perspective*. 2015, Dhaka: AH Development Publishing House.
4. Roy, K., **Dey, N.C.** and M.I.M., Zulfiker, "About Bangladesh and country's arsenic problem: At a glance, Roy K (editor), Proc. Int'l Symposium on Arsenic Calamity of Groundwater in Bangladesh: Contamination in Water, Soil and Plants, 2008, held on 11 August. Dhaka: Nihon University, Japan: 1-11.

Jounal articles

5. Mohammad, I. and **Dey, N.C.** (2024). Digital Agriculture Innovations in Bangladesh: A Situational Analysis and Pathways for Future Development. (Accepted by [Thunderbird International Business Review](#), Q1 Journal).
6. Islam, A.T., Islam, A.K.M.S., Islam, G.M.T. Bala, S.K., Salehin, M., Choudhury, A.K., Mahboob, G.M. **Dey, N.C.** Hossain, A. (2024). "Monitoring wheat area using sentinel-2 imagery and In-situ spectroradiometer data in heterogeneous field conditions". *Discov Agric* 2, 52. <https://doi.org/10.1007/s44279-024-00069-4>
7. Islam, A.F.T.M., Islam, A.K.M.S., Islam, G.M.T., Bala, S., Salehin, M., Dey, N.C., Hossain, A., "[Adaptation strategies to increase water productivity of wheat under changing climate](#)", *Agri. Water Management*, 2022, 264:107499. <https://doi.org/10.1016/j.agwat.2022.107499>

8. Islam, A.F.T.M., Islam, A.K.M.S., Islam, G.M.T., Bala, S., Salehin, M., Choudhury, A.K., **Dey, N.C.**, Mahboob, G.M., "[Simulation of water productivity of wheat in northwestern Bangladesh using multi-satellite data](https://doi.org/10.1016/j.agwat.2023.108242)", *Agri. Water Management*, 2023, **281**:108242. <https://doi.org/10.1016/j.agwat.2023.108242>
9. **Dey, N.C.** and Parvez, M., "Household finished flooring as a guard against enteric illness in children, *The Lancet Global Health*, 2021, 9(3):E227-E228. DOI: [10.1016/S2214-109X\(21\)00005-X](https://doi.org/10.1016/S2214-109X(21)00005-X).
10. **Dey, N.C.**, Bala SK, Islam AKM, Saha, R., Parvez, M., Hossain, M. "[Sustainability of groundwater use for irrigation for dry-season crops in the northwest Bangladesh](https://doi.org/10.1016/j.gsd.2017.02.001)", *Groundwater for Sustainable Development*, 2017, 4, 66–77. <https://doi.org/10.1016/j.gsd.2017.02.001>.
11. **Dey, N.C.**, Parvez, M., Saha, R., Islam MR, Akter, T., Barua, M., Islam, A., "[Water quality and willingness to pay for safe drinking water in the coastal area of Bangladesh](https://doi.org/10.1007/s12403-018-0272-3)", *Expo Health*, 2018. <https://doi.org/10.1007/s12403-018-0272-3>
12. **Dey, N.C.**, Parvez, M., Dey, D., Saha, R., Ghose, L., Barua, M., Islam, A, Chowdhury, M., "[Microbial contamination of drinking water from risky tubewells situated in different hydrological regions of Bangladesh](https://doi.org/10.1016/j.ijheh.2016.12.007)", *Intl. J. Hygiene and Environmental Health*, 2017, **220 (3)**, 621–636. <https://doi.org/10.1016/j.ijheh.2016.12.007>.
13. Parvez, M., Islam, R. and **Dey, N.C.**, "[Household food insecurity after the early monsoon flash flood of 2017 among wetland \(Haor\) communities of northeastern Bangladesh: a cross-sectional study](https://doi.org/10.1002/fes3.326)", *Food and Energy Security*, 2021, 00, e326.<https://doi.org/10.1002/fes3.326>.
14. **Dey, N.C.**, Parvez, M., Islam, M.R. "[A study on the impact of 2017 early monsoon flash flood: potential measures to safeguard livelihoods from extreme climate events in the haor area of Bangladesh](https://doi.org/10.1016/j.ijdr.2021.102247), *Intl. J. Disaster Risk Reduction*, 2021, 59, 102247. <https://doi.org/10.1016/j.ijdr.2021.102247>
15. **Dey, N.C.**, Parvez, M., Islam, M.R., Mistry, S.K., Levine, D. "[Effectiveness of a community-based water, sanitation, and hygiene \(WASH\) intervention in reduction of diarrhoea among under-five children: Evidence from a repeated cross-sectional study \(2007–2015\) in rural Bangladesh](https://doi.org/10.1016/j.ijheh.2019.08.006)", *Intl. J. Hygiene and Environmental Health*, 2019, **222 (8)**: 1098-1108. <https://doi.org/10.1016/j.ijheh.2019.08.006>.
16. Saha, R., **Dey, N.C.**, Rahman, M, Bhattacharya, P and Rabbani, G.H. "[Geogenic arsenic and microbial contamination in drinking water sources: exposure risks to the coastal population in Bangladesh](https://doi.org/10.3389/fenvs.2019.00057)", *Front. Environ. Sci.* 2019, 7, 57. <https://doi.org/10.3389/fenvs.2019.00057>.
17. Salem, G.S.A., Kazama S, Shahid S and **Dey, N.C.**, "[Impacts of climate change on groundwater level and irrigation cost in a groundwater dependent irrigated region](https://doi.org/10.1016/j.agwat.2018.06.011)", *Agricultural Water Management*, 2018, 208, 33-42. Elsevier publisher. <https://doi.org/10.1016/j.agwat.2018.06.011>
18. Saha, R., **Dey, N.C.**, Rahman, S., Galagedara, L., Bhattacharya, P. "[Exploring suitable sites for installing safe drinking water wells in coastal Bangladesh](https://doi.org/10.1016/j.gsd.2018.03.002)", *Groundwater for Sustainable Development*, 2018, 7. <https://doi.org/10.1016/j.gsd.2018.03.002>
19. Salem, G.S.A., Kazma, S., Shahid S, **Dey, N.C.**, "[Groundwater-dependent irrigation costs and benefits for adaptation to global change](https://doi.org/10.1007/s11027-017-9767-7)", *Miti. Adapt. Strategies for Global Change*, 2017, **23**, 953–979, <https://doi.org/10.1007/s11027-017-9767-7>.
20. Salem, G.S.A., Kazama S, Shahid S and **Dey, N.C.**, "[Impact of temperature changes on groundwater level and irrigation cost in a groundwater-dependent agricultural region in Northwest Bangladesh](https://doi.org/10.3178/hrl.11.85)", *Hydrology Research Letters*, 2017, **11(1)**, 85-91. <https://doi.org/10.3178/hrl.11.85>.
21. Salem, G.S.A., Kazama S, Shahid S and **Dey, N.C.**, "[Optimum abstraction of groundwater for sustaining groundwater level and reducing irrigation cost](https://doi.org/10.1007/s11269-017-1623-8)", *Water Resources Management*, 2017, 31 (6), 1947–1959. <https://doi.org/10.1007/s11269-017-1623-8>
22. **Dey, N.C.**, Ali, M., Arif, T. and Ahmed, S.M., "[Women's knowledge and perceived health effects from exposure to indoor air pollution: findings from a population-based cross-sectional survey in rural Bangladesh](https://doi.org/10.1007/s11269-017-1623-8)", *J Health Sci Educ*, 2017, 1(1), 1-5.
23. **Dey, N.C.**, Parvez, M., Saha, R., Khan, A.S.M., Khanam, R., Khan, R.U., Rahman, M., Barua, M. and Islam, A., "[Assessing willingness to pay for safe drinking water in Tala union of Shatkhira district, Bangladesh](https://doi.org/10.1007/s11269-017-1623-8). *BRAC University Journal: Science and Technology*, 2016, XI (1), 1-34.
24. Basak, J.K., Titumir, A.M.R., Baten, M.A. and **Dey, N.C.**, "[A review study on food consumption and hovered nutrition in Bangladesh: Progress and determinants of food security](https://doi.org/10.1007/s11269-017-1623-8)", *J. Environ. Sci.*, 2015, 29, 29-36. [ISSN 1561-9206].

25. Akter T and **Dey, N.C.**, "[Transition overtime in household latrine use in rural Bangladesh: a longitudinal cohort study](https://doi.org/10.1186/1471-2458-14-721)", *BMC Public Health*, 2014, 14, 721. <https://doi.org/10.1186/1471-2458-14-721>.
26. **Dey, N.C.**, Hayakawa, S., Khan, N.A., Saifuddin, K and Samsuzzoha, M. "Retrieving Leaf Area Index (LAI) of Different Forest Species from Landsat TM/ETM+ Imaginary", *Dhaka University Journal of Earth & Environmental Sciences*, 2013, 2 (2): 9-14.
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1.1.13 Country visited

Bangladesh, China, India, Japan, Kenya, Thailand, UK and USA.

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Exhibited: Offer letter from the NSTU



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রেজিস্ট্রার অফিস
সংস্থাপন শাখা

নোবিঃবি/রেজি/সং-শা/নিদি/২০১৭/২১৩৩/১

২৬ নভেম্বর ২০১৭

অফিস আদেশ


জ. নোয়াখালী চক্র নে

পিতা: মুক্ত অফিস চক্র নে
গ্রাম: ছাটপা, পো: কারাগাবাদ
থানা: টাঙ্গুর
জেলা: টাঙ্গুর।

বিষয়: সহযোগী অধ্যাপক পদে নিয়োগ।

আপনার আবেদনের প্রেক্ষিতে ১৫ নভেম্বর ২০১৭ অনুষ্ঠিত বাছাই বোর্ডের সুপারিশ এবং ২৩ নভেম্বর ২০১৭ অনুষ্ঠিত সিলেক্ট বোর্ডের ৩০ তম সভার আলোচ্যসূচী-০৫ এর সিদ্ধান্ত অনুযায়ী আপনাকে অত্র বিশ্ববিদ্যালয়ের এনভায়রনমেন্টাল সায়েন্স এন্ড ডিজাস্টার ম্যানেজমেন্ট বিভাগের সহযোগী অধ্যাপক পদে নিম্নলিখিত শর্তে নিয়োগ প্রদান করা হলো:

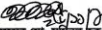
- আপনার এ নিয়োগ অত্র বিশ্ববিদ্যালয়ে যোগদানের দিন হতে কার্যকর বলে গণ্য হবে।
- জাতীয় বেতন স্কেল ২০১৫ এর ৪র্থ গ্রেডের ৫০,০০০-৭১,২০০ টাকার বেতন স্কেলে অন্যান্য সুবিধাসহ তাঁর মাসিক মূল বেতন বিধি মোতাবেক হিসাব পরিচালক মহত্বের কর্তৃক নির্ধারিত হবে।
- যোগদানের তারিখ হতে ০২ (দুই) বছর শিক্ষাবিধি হিসেবে কাজ করবেন, এ সময় বীকৃত জার্নালে একটি প্রকাশনা অভ্যাবশ্যিক। তৎপরবর্তী চাকরী স্থায়ীকরণের জন্য আবেদন করতে হবে।
- চাকরিতে দু'বছর পূর্ণ হওয়ার পূর্বে অন্য কোন প্রতিষ্ঠানে চাকরির আবেদন জমা রাখা হবে না।
- যে কোন পক্ষ আপনি অত্র বিশ্ববিদ্যালয় ৩০ দিনের নোটিশ অথবা ১ মাসের বেতন সাহেতার করে এই নিয়োগের পরিসমাপ্তি ঘটতে পারবেন।
- আপনাকে বিশ্ববিদ্যালয়ের মেডিকেল অফিসার দ্বারা স্বাস্থ্য পরীক্ষা করাতে হবে এবং সুস্থতা সম্পর্কে মেডিকেল অফিসার কর্তৃক প্রদত্ত সার্টিফিকেট যোগদান পত্রের সাথে অবশ্যই জমা দিতে হবে।
- যোগদান পত্রের সঙ্গে আপনার বর্তমান নিয়োগ কর্তার ছাড়পত্র (চাকরিরত প্রার্থীদের ক্ষেত্রে প্রযোজ্য) জমা দিতে হবে।
- আপনার দরখাস্তে বর্ণিত যে কোন তথ্য মিথ্যা প্রমাণিত হলে বা দাবিকৃত সার্টিফিকেটসমূহ যাচাই করে সঠিক পাওয়া না গেলে সে ক্ষেত্রে আপনার এ নিয়োগ বাতিল করা হবে।
- এ নিয়োগপত্র ইন্টার তারিখ হতে অন্তর্গত ০১ (এক) মাসের মধ্যে আপনাকে যোগদান করতে হবে। উক্ত সময়ের মধ্যে যোগদান করতে ব্যর্থ হলে অথবা যোগদানের জন্য সময় বৃদ্ধি করার ব্যাধারে কর্তৃপক্ষের অনুমতি নাতে অপারণ হলে এ নিয়োগ বাতিল হয়ে পণ্য হবে।
- আপনি বর্তমানে প্রচলিত ও ভবিষ্যতে প্রবর্তিতব্য বিশ্ববিদ্যালয়ের অর্ডিন্যান্স, স্ট্যাটিউটস, রুলস, রেগুলেশনস ইত্যাদি মেনে চলতে বাধ্য থাকবেন।
- উপরে বর্ণিত শর্তাবলী মেনে নিয়ে আপনি এ নিয়োগ গ্রহণ করতে সক্ষম হলে সন্ত্রিষ্ট কামজ্ঞাপনসহ আপনার যোগদান পর নোবিঃবিঃ সন্ত্রিষ্ট বিজ্ঞানীয় চেয়ারম্যান ও সন্ত্রিষ্ট অনুষদের ডীন এর মাধ্যমে রেজিস্ট্রার বরাবর প্রেরণ করার জন্য আপনাকে অনুরোধ করা হলো।


রেজিস্ট্রার
নোয়াখালী বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়।
২৬ নভেম্বর ২০১৭

নোবিঃবি/রেজি/সং-শা/নিদি/২০১৭/২১৩৩/১ (৩)

সহঃ অধ্যাপক ও প্রোগ্রামার কার্যে অফিসি প্রেরিত হলো:

- উপ-উপায়ুক্ত।
- উপ-উপায়ুক্ত।
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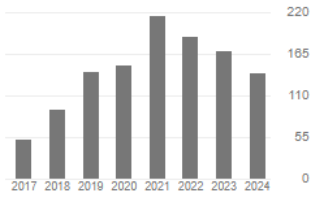
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৩.০৫ মি.	পবিত্র কোরআন থেকে তেলাওয়াত
৩.১০ মি.	স্বাগত বক্তব্য : প্রকৌশলী এস. এম. মনজুরুল হক মল্লু, সম্মানী সাধারণ সম্পাদক, আইইবি
৩.২০ মি.	মূল প্রবন্ধ উপস্থাপক : ড. প্রকৌশলী মোহাম্মদ কামরুজ্জামান মিলন, সিনিয়র সায়েন্সিফিক অফিসার, বাংলাদেশ খান গবেষণা ইনস্টিটিউট ও সম্মানী সম্পাদক, আইইবি গাজীপুর সেন্টার
৩.৪৫ মি.	মুখ্য আলোচক : প্রফেসর ড. নেপাল চন্দ্র দে, রিসার্চ এন্ড ইভালুয়েশন, আইএ পানি, খাদ্য ও পুষ্টি নিরাপত্তা জলবায়ু পরিবর্তন এডাপটেশন, ব্র্যাক বিশ্ববিদ্যালয়
৩:৫৫	মুক্ত আলোচনা :
৪.১০ মি.	বিশেষ অতিথির বক্তব্য : প্রকৌশলী মো. আবদুল সাদাম, চেয়ারপারসন, সোশ্যাল ডেভেলপমেন্ট ফাউন্ডেশন (এসডিএফ); প্রাক্তন সিনিয়র সচিব, নৌপরিবহন মন্ত্রণালয়, গণপ্রজাতন্ত্রী বাংলাদেশ সরকার; প্রকৌশলী খন্দকার মনজুর মোর্শেদ, ভাইস-প্রেসিডেন্ট (এইচআরডি), আইইবি; প্রকৌশলী কাজী খায়রুল বাশার, ভাইস-প্রেসিডেন্ট (একাডেমিক এন্ড আন্তর্জাতিক) আইইবি,
৪.৩০ মি.	গ্রহণ অতিথির বক্তব্য : প্রকৌশলী মো. আবদুল সবুর এমপি, প্রেসিডেন্ট, ইঞ্জিনিয়ার্স ইনস্টিটিউশন, বাংলাদেশ (আইইবি)
৪.৪৫ মি.	ব্রেক্ট প্রদান
৪.৫০ মি.	সভাপতির বক্তব্য : প্রকৌশলী মো. মিছবাহুজ্জামান চন্দন, চেয়ারম্যান, কৃষিকৌশল বিভাগ, আইইবি
৫.০০ মি.	ধন্যবাদ জ্ঞাপন : প্রকৌশলী মোহাম্মদ মিজানুর রহমান, ভাইস-চেয়ারম্যান, কৃষিকৌশল বিভাগ, আইইবি
	অনুষ্ঠান সম্বন্ধনয় : প্রকৌশলী মোহাম্মদ ওয়াহিদুল ইসলাম, সম্পাদক, কৃষিকৌশল বিভাগ, আইইবি।

সূচী,
কৃষিকৌশল বিভাগ, ইঞ্জিনিয়ার্স ইনস্টিটিউশন, বাংলাদেশ (আইইবি)র উদ্যোগে আগামী ২২ ফেব্রুয়ারি ২০২৪ খ্রি., কৃষ্ণশ্রিতবার, বিকাল ৩:০০টা, কাউন্সিল হল, শহীদ প্রকৌশলী ভবন, আইইবি সদর দফতর, রমনা, ঢাকায় "Climate Change in Bangladesh: Impacts on Agriculture" শীর্ষক সেমিনার আয়োজন করা হয়েছে।

প্রকৌশলী মো. আবদুল সবুর এমপি, প্রেসিডেন্ট, ইঞ্জিনিয়ার্স ইনস্টিটিউশন, বাংলাদেশ (আইইবি) সেমিনারে প্রধান অতিথি হিসেবে উপস্থিত থাকতে সদর সমিতি জ্ঞাপন করেছেন।

প্রকৌশলী মো. আবদুল সাদাম, চেয়ারপারসন, সোশ্যাল ডেভেলপমেন্ট ফাউন্ডেশন (এসডিএফ) ও প্রাক্তন সিনিয়র সচিব, নৌপরিবহন মন্ত্রণালয়, গণপ্রজাতন্ত্রী বাংলাদেশ সরকার; প্রকৌশলী খন্দকার মনজুর মোর্শেদ, ভাইস-প্রেসিডেন্ট (এইচআরডি) আইইবি; প্রকৌশলী কাজী খায়রুল বাশার, ভাইস-প্রেসিডেন্ট (একাডেমিক এন্ড আন্তর্জাতিক) সেমিনারে বিশেষ অতিথি হিসেবে উপস্থিত থাকবেন।

ড. প্রকৌশলী কামরুজ্জামান মিলন, সিনিয়র সায়েন্সিফিক অফিসার, বাংলাদেশ খান গবেষণা ইনস্টিটিউট ও সম্মানী সম্পাদক, আইইবি গাজীপুর সেন্টার সেমিনারে মূল প্রবন্ধ উপস্থাপক হিসেবে উপস্থিত থাকবেন।

প্রফেসর ড. নেপাল চন্দ্র দে, প্রফেসর, রিসার্চ এন্ড ইভালুয়েশন ডিভিশন, ব্র্যাক বিশ্ববিদ্যালয় সেমিনারে মুক্ত আলোচক হিসেবে উপস্থিত থাকবেন।

প্রকৌশলী মো. মিছবাহুজ্জামান চন্দন, চেয়ারম্যান, কৃষিকৌশল বিভাগ, আইইবি অনুষ্ঠানে সভাপতিত্ব করবেন। উক্ত সেমিনারে আপনি সামনে আমন্ত্রিত।


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