Present Address:

Name: Engr. Muhammad Abdur Rahman Bhuiyan, PhD, Professor, Department of Civil Engineering & Director, Institutional Quality Assurance Cell (IQAC), Chittagong University of Engineering & Technology (CUET), Chattogram-4349.

Synopsis:

Dr. Bhuiyan is working as the professor (Grade-1: Highest grade for public servants in Bangladesh as per National Pay Scale 2015) in the department of civil engineering with specialization in structural and earthquake engineering at Chittagong University of Engineering and Technology (CUET), Bangladesh. He is the Lead Faculty of the Structural Engineering Lab. In addition, he is currently serving as the Director of Institutional Quality Assurance Cell (IQAC) at CUET. He served CUET as the Dean of Faculty of Civil Engineering (2017-2019), Director of Institute of Earthquake Engineering Research (IEER) (2014-2019, 2021-2023), Head of Department of Civil Engineering (2015-2017) and Department of Disaster and Environmental Engineering (2012-2014). He was the Syndicate member of CUET (2016-2019). He was also the Senior Consultant (2019-2021, on lien from the university) at Housing and Building Research Institute (HBRI), Ministry of Housing and Public Works under a JICA-STREPS project entitled "*Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and Its Strategic Implementation towards Resilient Cities* (TSUIB)" jointly funded by Japan and Bangladesh.

Dr. Bhuiyan is the Fellow of the Institute of Engineers, Bangladesh (IEB) and maintains his membership with American Society of Civil Engineers (ASCE), Structural Engineering Institute (ASCE-SEI), Earthquake Engineering Research Institute (EERI), International Association for Structural and Bridge Engineering (IABSE) and Japan Society of Civil Engineers (JSCE). He served BAETE, IEB as the member secretary of the Coordination Committee in 2020 and 2021.He is also working in a team contributing to the improvement of quality of engineering education in Bangladesh. In addition to academic responsibilities, he is also working as the general secretary of Bangladesh Group of IABSE. He is also working as the member of the Technical Committee of the Asian Civil Engineering Coordinating Council (ACECC).

Dr. Bhuiyan started his professional career as research associate in the Department of Civil Engineering, BUET in 2001. He joined CUET in 2002 as lecturer, got promoted to assistant professor in 2005, associate professor in 2012, professor (Grade 3) in 2013, professor (Grade 2) in 2017 and finally he got promoted to professor (Grade-1) in July 2022. In 2010, he worked as a short-term visiting scholar at University of Kassel and University of Ruhr in Germany. From 2006 to 2009, he carried out research works in Japan on laminated rubber bearings and developed rheology models for seismic analysis of laminated rubber bearings to be used in protecting bridge structures from earthquakes. This widely accepted technology has been directly applied, for the first time in Bangladesh, in the construction of the second Kanchpur-Meghna-Gomti bridges recently constructed on the Dhaka-Chittagong highway. In 2011-2013, he conducted research works in Canada and Bangladesh on fragility assessment of SMA installed highway bridges due to earthquakes, and developed a simplified rheology model for SMA based rubber bearings to be used in protecting bridge structures from earthquakes. In 2010-2016, he took part in a project contributing towards development and formulation of course curriculum on disaster engineering education in postgraduate level in the South East Asian countries. The project was headed by University of Kassel, Germany and the other partner universities/ institutes of the project were from Bangladesh, India and Nepal. Apart from his academic and administrative responsibilities at the university, he serves, on behalf of CUET, as consultant in various projects of different government and non-government organizations of the country. In 2019-2021, he was involved in a technical project, financed by the Housing and Building Research Institute (HBRI), Ministry of Housing and Public Works and technically assisted by JICA, for the development of a Technical Guidelines for seismic assessment of existing unreinforced masonry buildings in Bangladesh.

Dr. Bhuiyan received his B.Sc. in Civil Engineering degree and M. Sc. In Structural Engineering degree from Bangladesh University of Engineering and Technology (BUET), Bangladesh. He obtained his Ph.D. degree majoring Structural and Earthquake Engineering from Saitama University, Japan with the Monbukagakhusho (MEXT) scholarship of Japan Government. In 2011, he worked as a postdoctoral fellow at the school of engineering in University of British Columbia (Okanagan Campus), Canada.

Dr. Bhuiyan has supervised more than ten postgraduate students. His research interest includes experimental characterization and rheology modeling of rubber material and seismic devices to be used in seismic isolation of buildings and bridges; finite element modeling; vibration control of structures; seismic fragility assessment of structures; performance-based seismic design, and rehabilitation of structures; structural health monitoring of bridges; human response to environmental vibration; soil-structure interaction and computational wind engineering. He has completed a

number of national and international research projects and published more than 75 technical papers in peer reviewed journals and proceedings. He participated in national/ international conferences/ seminars as the invited/ keynote speaker. He is the co-author of a book chapter entitled "*Mechanical characterization of laminated rubber bearings and their modeling approach*", published by IntechOpen and the author of Users' Manual for seismic assessment of existing URM buildings in Bangladesh, published by Housing and Building Research Institute (HBRI), Ministry of Housing and Public Works.

Academic Degree:

Degree	Institution	Year
B.Sc. Engineering in Civil Engineering	Bangladesh University of Engineering and Technology	2001
M.Sc. Engineering in Civil and Structural Engineering	Bangladesh University of Engineering and Technology	2004
Ph.D. in Structural Engineering	Saitama University, Japan	2009

Research Interest:

Structural engineering,
Experimental mechanics,
Continuum mechanics and modeling of nonlinear material behavior,
Finite element analysis,
Seismic fragility assessment of structures,
Performance-based seismic design,
Seismic retrofitting and rehabilitation of structures,
Structural health monitoring of bridges,
Soil-structure interaction, and
Computational wind engineering.

Scholarship/ Award/ Fellowship

Name	Organization	Year
Monbokagakusho Scholarship	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Government of Japan	2006-2009
Post-doctoral fellowship	The University of British Columbia, Okanagan Campus, Canada	2011
Distinguished Paper Award	International Summer Symposium, Japan Society of Civil Engineers, Japan	2008
Stanford/ Elsevier Top 2% Scientists in 2023	Stanford University, USA and Elsevier	2023
Visiting Researcher	Ruhr University Bochum, Germany	2010

Employment record: Academic Position

Period	Employing organization and title/ position. Contact Information for references	Country
July 2022, to date	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Professor (G-1)** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
December 2017, to June 2022	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Professor (G-2)** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh

December 2013 to date	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Professor (G-3)** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
January 2013 to November 2013	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Associate Professor** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
April 2005 to December 2012	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Assistant Professor** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
May 2002 to March 2005	**Employer:** Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position: Lecturer** **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh

Employment record: Administrative Responsibilities

Period	**Employing organization and title/ position. Contact Information for references**	**Country**
August 2023 to date	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Director, Institutional Quality Assurance Cell (IQAC) **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
August 2021 to August 2023	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Director, Institute of Earthquake Engineering Research (IEER) **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
09/05/2018, 10/05/2018 and 12/09/2018	**Vice-Chancellor (In-Charge),** Chittagong University of Engineering & Technology (CUET), Chittagong-4349, Bangladesh **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
October 2017 to August 2019	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Dean, Faculty of Civil Engineering **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
August 2015 to August 2017	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Head, Department of Civil Engineering **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
December 2013 to August 2019	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Director, Institute of Earthquake Engineering Research (IEER) **Reference:** Registrar, CUET	Bangladesh

	Telephone: +880 31 714910	
April 2012 to April 2014	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Head, Department of Disaster and Environmental Engineering **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
November 2012 to December 2013	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Director-in-Charge, Institute of Earthquake Engineering Research (IEER) **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
April 2012 to November 2012	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Coordinator , Earthquake Engineering Research Center (EERC) **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
July 2018 to August 2019	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Procurement Advisor, Development of Chittagong University of Engineering & Technology Project **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh

Employment record: Professional (Consulting) Experience

Period	**Employing organization and title/ position. Contact Information for references and Summary of activities performed relevant to the Assignment**	**Country**
August 2019 to June 2021	**Employer:** Housing and Building Research Institute (HBRI), Darus Salam, Mirpur, Dhaka Bangladesh **Project:** Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and Its Strategic Implementation towards Resilient Cities (TSUIB), a JICA-STREPS project funded by JICA and Bangladesh. **Position:** Senior Consultant **Reference:** Director General, Housing and Building Research Institute (HBRI), Darus Salam, Mirpur, Dhaka Bangladesh **Telephone:** +880 1711902878 **Responsibility:** The duties/ responsibilities of the position include, but not limited to: ● Coordination with Japanese and Bangladeshi researchers to execute the various research works. ● Coordination of the research activities of HBRI under the project. ● Monitoring the day to day work of the researchers under the project. ● Planning, designing, execution and inspection of the construction works under the project. ● Conducting research works related to seismic evaluation of unreinforced masonry buildings. ● Conducting research works on structural behavior of sand-cement block, an alternative building material developed by HBRI.	Bangladesh
August 2011 to date	**Employer:** CA Property Development Ltd. (CPDL) **Position:** Consultant **Reference:** Chief Engineer, CA Property Development Ltd. (CPDL) **Telephone:** +880 1777766100	Bangladesh

	Responsibility: The duties/ responsibilities include, but not limited to: ● Structural design and supervision of multi-storied reinforced concrete and steel buildings and structures. ● Foundation design and supervision of multi-storied reinforced concrete and steel buildings.	
November 2002 to date	**Employer:** Bureau of Research, Testing and Consultation (BRTC) **Position:** Consultant **Reference:** Director, Bureau of Research, Testing and Consultation (BRTC) **Telephone:** +880 01739177148 **Responsibility:** The duties/ responsibilities include, but not limited to: ● Vetting of detailed structural design and supervision of multi-storied (up to 30-story with 3 basements) reinforced concrete and steel buildings and bridges.. ● Vetting of structural design and supervision of civil infrastructures. ● Foundation design of multi-storied reinforced concrete and steel buildings. ● Structural safety assessment and retrofitting design of existing buildings **Selected projects (Role in the Team):** ● Consultancy services for the construction of Heavy Lift Cargo Jetty at Laldiar Char-2 of Chittagong Port Authority, Bangladesh (**Team Leader**) ● Structural Design of Local Jetty of Chittagong Urea Fertilizer Limited, Chattogram, Bangladesh (**Team Leader**) ● Structural Design and Supervision of Doplhin Jetty of Karnaphuly Drydock Ltd. , Chittagong, Bangladesh (**Team Leader**) ● Structural Safety Assessment and Retrofitting of Factory Buildings in Chittagong, Bangladesh(**Team Member**) ● Structural design vetting of a 25-storied with 3-basement Commercial Building (71 Tower) at Agrabad, Chittagong, Bangladesh (**Team Member**) ● Structural design vetting of the foundation of Flyover at Kadamatali Junction, Chittagong (Kadamtali Flyover), Chittagong Development Authority (CDA) (**Team Member**) ● Structural design vetting of a 30-storied with 3-basement Commercial Building at Agrabad, Chittagong, Doreen Developments Ltd (**Team Member**) ● Structural design vetting of the Dolphin Jetty at Chittagong Port, Chittagong (**Team Member**)	Bangladesh
January 2022 to date	**Employer:** Dcon Design Studio **Position:** Consultant **Reference:** G.M., Dcon Design Studio **Telephone:** +880 1731799425 **Responsibility:** The duties/ responsibilities include, but not limited to: ● Structural design and supervision of tall reinforced concrete and steel buildings and structures. ● Foundation design and supervision of high rise reinforced concrete and steel buildings.	Bangladesh

Enlistment with Processional Bodies:

Registered Engineer	● Institution of Engineers, Bangladesh, Chattogram Center Registration N:0261

Membership in Professional Societies:

Membership	● Fellow, Institute of Engineers, Bangladesh

	● Member, American Society of Civil Engineers ● Member, International Association of Bridge and Structural Engineers ● Member, Japan Society of Civil Engineers ● Member , Earthquake Engineering Research Institute ● Member, ASCE Structural Engineering Institute

Reviewer of Selected Journals:

- International Journal of Civil Engineering, https://link.springer.com/journal/40999
- Arabian Journal of Science and Engineering, https://link.springer.com/journal/13369
- Journal of Bridge Engineering, https://ascelibrary.org/journal/jbenf2
- Journal of Engineering Mechanics, https://ascelibrary.org/journal/JENMDT
- Structural Engineering and Mechanics, *An International Journal, https://www.techno press.org/?journal=sem&subpage=5*

Member of Editorial Bodies of International Conferences

- 4th IABSE-JSCE Joint Conference on Advances in Bridge Engineering-IV, August 26-27, 2020, Dhaka, Bangladesh ISBN: 978-984-34-8313-3, Edited by Amin, Okui, Bhuiyan, Rahman. www.iabse-bd.org
- 3rd IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh ISBN: 978-984-33-9313-5 Amin, Okui, Bhuiyan, Ueda (eds.) www.iabse-bd.org
- 2nd IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh. ISBN: 978-984-33-1893-0 Amin, Okui, Bhuiyan (eds.) www.iabse-bd.org
- 1st International Conference on Advances in Civil Engineering, December 12-14, 2012, Chattogram, Bangladesh **URI:** http://103.99.128.10:8080/xmlui/handle/123456789/195
- 2nd International Conference on Advances in Civil Engineering, December 26-28, 2014,Chattogram, Bangladesh https://www.cuet.ac.bd/icace2/downloads.html
- 4th Annual Paper Meet & 1st Civil Engineering Congress, 22-24 December 2011, Dhaka, Bangladesh, https://www.iebconferences.info/intl_ad_comm.php

Leadership Role in National/ International Conference and Professional Society

- Member Secretary, Bangladesh Group of IABSE. https://www.iabse.org/Bangladesh
- IEB Nominated Member, ACCEC Technical Committee (TC29), Asian Civil Engineering Coordinating Council. https://acecc-world.org/committees/
- Member, Advisory Committee, 2nd International Conference on Business, Innovation and Social Sciences (ICBISS 2022), CCNUST, Bangladesh Conference Chair, 3rd International Conference on Advances in Civil Engineering, December 21-23, 2016, Chattogram, Bangladesh. http://www.cuet.ac.bd/icace/
- Organizing Secretary, 4th IABSE-JSCE Joint Conference on Advances in Bridge Engineering-IV, August 26-27, 2020, Dhaka, Bangladesh. www.iabse-bd.org
- Member, Scientific and Technical Committee, 2nd International Conference on Advances in Civil Infrastructure and Construction Materials (CICM-2023), MIST, Dhaka 26-28 July 2023.
- Member, Scientific and Technical Committee, 3rd IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh. www.iabse-bd.org; https://www.iabse-bd.org/index.php
- Member, Scientific and Technical Committee, 2nd IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh. ISBN: 978-984-33-1893-0 Amin, Okui, Bhuiyan (eds.) www.iabse-bd.org
- Member, Scientific and Technical Committee, 1st International Conference on Advances in Civil Engineering, December 12-14, 2012, Chattogram, Bangladesh **URI:** http://103.99.128.10:8080/xmlui/handle/123456789/195
- 2nd International Conference on Advances in Civil Engineering, December 26-28, 2014,Chattogram, Bangladesh https://www.cuet.ac.bd/icace2/downloads.html
- Member of Scientific and Technical Committee, 4th Annual Paper Meet & 1st Civil Engineering Congress, 22-24 December 2011, Dhaka, Bangladesh, https://www.iebconferences.info/intl_ad_comm.php

Publications:

http://publicationslist.org/arbhuiyan;
https://scholar.google.com.vn/citations?user=VazlWloAAAAJ&hl=vi;
https://www.researchgate.net/profile/Abdur-Bhuiyan-3.

Book Chapter	1. A R Bhuiyan. And Y. Okui,, 2012. Mechanical characterization of laminated rubber bearings and their modeling approach, Chapter 12, Earthquake Engineering. http://dx.doi.org/10.5772/50405), Published by InTech
Book	1. A R. Bhuiyan (2009). Rheology modeling of laminated rubber bearings for seismic analysis, Doctoral Dissertation, Graduate School of Science and Engineering, Saitama University, Japan. Supervisor: Professor Yoshiaki Okui. https://sucra.repo.nii.ac.jp/record/9739/files/GD0000141.pdf 2. A R Bhuiyan (2004). Finite element modeling of nonlinear elastic response of natural and high damping rubber. Masters Thesis, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Bangladesh. Supervisor: Professor AFM Saiful Amin URI: http://lib.buet.ac.bd:8080/xmlui/handle/123456789/1993 3. A R Bhuiyan (2001a). Effects of voids in coarse aggregates in ACI method of concrete mix-design. Undergraduate Thesis, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Bangladesh. . Supervisor: Professor Sohabuddin Ahmad. 4. A R Bhuiyan (2001b).Investigation into the stress analysis of helicoidal stair slabs based finite element analysis. Undergraduate Thesis, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Bangladesh. . Supervisor: Professor Sohabuddin Ahmad.
User's Manual	A. R Bhuiyan, A Malek and M Islam, 2022. User's Manual on Seismic Assessment of Existing Unreinforced Masonry Buildings in Bangladesh, Published by Housing and Building Research Institute.
Keynote/ Invited Speeches	1. A R Bhuiyan (2023). Seismic Fragility Assessment of Multispan RC Bridges using Generative Adversarial Networks, 2nd International Conference on Advances in Civil Infrastructure and Construction Materials (CICM-2023), MIST, Dhaka 26-28 July 2023. 2. A R Bhuiyan (2022). Use of SMA based smart material in seismic isolation of highway bridges, 2nd International Conference on Business, Innovation and Social Sciences (ICBISS 2022), CCNUST, Bangladesh 3. A F M S Amin and A R Bhuiyan (2019). Quality infrastructure: Bangladesh perspective, International Roundtable Meeting (RTM) , Effectiveness of Developing Quality Infrastructure: Issues and Approaches, Annual Meeting, Japan Society of Civil Engineers (JSCE), September 2-6, 2019, Takamatsu, Japan 4. A R Bhuiyan (2024). Seismic performance evaluation of existing RC building frames: An experimental investigation. A Seminar on Advanced Technologies for Construction Practices in Bangladesh, Organized by Bangladesh Steel Re-Rolling Mills (BSRM) for professionals, March 6, 2024. 5. A R Bhuiyan (2019). Updates of ACI318-19: Effects on Building Construction Practices. A Seminar organized by Bangladesh Steel Re-Rolling Mills (BSRM) for professionals, October 23, 2019. 6. A R Bhuiyan (2013). Ductility of Reinforced Concrete Structures. A Seminar organized by Bangladesh Steel Re-Rolling Mills (BSRM) for professionals, June, 2013.
Journal articles	26. M. R. Mukhlis, A. Das, S. M. M. Islam, A. M. Sikder and M. A. R. Bhuiyan (**In Press**). Experimental study on cyclic behavior of RC frameinfilled with sandcrete blocks, Sustainable Design and Construction: Selected Papers from ICACE2024, Springer Book Series, Springer Nature 25. Debasis Sen, Fatema Tuz Zahura, Anik Das, Hamood Alwashali, Md. Shafiul Islam, Masaki Maeda, Matsutaro Seki and M. Abdur R Bhuiyan 2024. A comparative investigation on experimental

	lateral ehavior of bare RC frame, non-strengthened and ferrocement strengthened masonry infilled RC frame. Bulletin of the New Zealand Society for Earthquake Engineering, Vol. 57, No. 2, 85-96. https://doi.org/10.5459/bnzsee.1656 24. Mohammad Raihan Mukhlis Sohel Rana and M. Abdur R. Bhuiyan 2023. Seismic Performance Assessment of Retrofitted Curved RC Bridge: A Case Study, ACI SP 358. ACI Concrete Convention, April 2-6, 2023, San Francisco, CA. 23. A. Haque, M. R. Mukhlis, and M. A. R. Bhuiyan 2021. Seismic response of multi-span continuous bridges of irregular brides using displacement-based and conventional force-based methods, International Journal of Civil Engineering, 19(7):837-850, DOI: 10.1007/s40999-021-00600-4 22. A. K. M. T. A. Khan, • M. A. R. Bhuiyan and S. B. Ali 2019. Seismic Responses of a Bridge Pier Isolated by High Damping Rubber Bearing: Effect of Rheology Modeling, International Journal of Civil Engineering, https://doi.org/10.1007/s40999-019-00454-x(0123456789() 21. Ram Krishna Mazumder, Mohammad Tais Uddin Utsob, M A Rahman Bhuiyan 2018. Seismic vulnerability assessment of medical facilities: a GIS based application for Chittagong, Bangladesh, Malaysian Journal of Civil Engineering 30:1. 20. Md. Abul Hasan, M A Rahman Bhuiyan 2018. Seismic fragility assessment and retrofit of a government Hospital building in Chittagong, Bangladesh, Malaysian Journal of Civil Engineering 30:1. 19. M Raiham Mukhlis and M A Rahman Bhuiyan 2017. Lateral Strength and Safety Evaluation of Piers of Kadamtali Flyover in Chittagong, Bangladesh, International Journal of Advanced Structures and Geotechnical Engineering 6:2, 45-56. 18. M A Rahman Bhuiyan and Hafizul Alim 2017. Seismic safety evaluation of Abdul Mannan Overpass in Chittagong, Bangladesh, Malaysian Journal of Civil Engineering 29:3. 17. R.K. Dey, Ram Krishna Mazumder and M A Rahman Bhuiyan 2016. Analytical fragility curves from capacity spectrum: A case study for reinforced concrete frame building with unreinforced masonry infill walls. IEB Journal of Civil Engineering 44: 2.101- 109. 16. A K M T Alam Khan, Hafizul Alim, M A Rahman Bhuiyan 2015. Lateral strength and ductility of piers of Bahaddarhat overpass in Chittagong, Bangladesh, IEB Journal of Civil Engineering 43: 1. 93 – 104. 15. Amin, A.F.M.S. Bhuiyan, M. A. R., Hossain, T, and Okui, Y. 2015. Nonlinear viscosity law in FE analysis of high damping rubber bearings and expansion joints, ASCE Journal of Engineering Mechanics 141(6). Permalink: http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000888 14. A. K. M. T. Alam & M. A. R. Bhuiyan, 2013. Effect of soil-structure interaction on seismic response of a seismically isolated highway bridge pier, IEB Journal of Civil Engineering 41: 2. 179-199 13. Bhuiyan, M. A. Rahman and Alam, M. Shahria, 2013. Seismic performance assessment of highway bridges equipped with super-elastic shape memory alloy-based laminated rubber isolation bearing, Engineering Structures, 49C: 396-407 12. Alam, M.S., Bhuiyan, M.A.R. & Billah, A.H.M.M, 2012. Seismic fragility assessment of SMA-bar restrained multi-span continuous highway bridge isolated by different laminated rubber bearings in medium to strong seismic risk zones. *Bull Earthquake Eng* **10**, 1885–1909 (2012). https://doi.org/10.1007/s10518-012-9381-8 11. Bhuiyan, M. A. Rahman and Alam, M. Shahria, 2012. Seismic vulnerability assessment of a multi-span continuous highway bridge fitted with shape memory alloy bars and laminated rubber bearings, Earthquake Spectra, 28, No. 4:1379–1404 10. Razzaq, M. K., Okui, Y., Bhuiyan, M. A.R., Amin, A. F.S, Mitamura, H. and Imai, T., 2012. Application of rheology modeling to natural and lead rubber bearings: A simplified model and low temperature behavior, JSCE Structural/Earthquake Engineering, 29(2):40-55 9. Bhuiyan, M. A. R., Alam, R. and Haque, N., 2012. Seismic performance assessment of a continuous highway bridge seismically isolated by lead rubber bearings, Asian Transaction on Engineering ((ATE ISSN: 2221-4267), 2(3):62-71 8. Billah, AHM Muntasir, Alam, M. Shahria and Bhuiyan, M. A Rahman, 2013. Fragility analysis of retrofitted multi-column bridge bent subjected to near fault and far field ground motion, ASCE Bridge Engineering, 18, No. 10:992-1004)

	7. Bhuiyan, M. A.R., Okui, Y., Mitamura, H. and Imai, T., 2009. A rheology model of high damping rubber bearings for seismic analysis: identification of nonlinear viscosity, International Journal of Solids and Structures 46:1778-1792. 6. Bhuiyan, M. A.R., Ahmed, E., 2007. Analytical expression for evaluating stress-deformation response of rubber layers under combined action of compression and shear, Journal of Construction and Building Materials 21: 1861-1868. 5. Amin, A.F.M.S., Wiraguna, S.I., Bhuiyan, M.A.R., and Okui, Y., 2006. Hyperelasticity model for finite element analysis of natural and high damping rubbers in compression and shear, Journal Engineering Mechanics, 132: 54-64. 4. Haque, M.N. and Bhuiyan, M. A. R., 2012. Seismic response analysis of simple span concrete deck girder skewed bridge: effect of skew angles, IEB Journal of Civil Engineering, 40(2): 227-237. 3. Haque, M.N. and Bhuiyan, A.R. 2013. Seismic response of multi-span highway bridge: effectiveness of using isolation system, ASIAN JOURNAL OF CIVIL ENGINEERING (BHRC), 14(5):708:718. 2. Ram Krishna Mazumder, Abul Khair, Nazmus Sakib, Md. Abdur Rahman Bhuiyan and Md. Jahangir Alam 2015. Rapid Assessment Procedure for Seismic Evaluation of Existing Buildings: A Case Study for CUET Campus, Journal of South Asian Disaster Studies 1b. Bhuiyan, M. A. R., and Islam, S., 2007. Investigation into the effect of voids present in coarse aggregates on the mix design of concrete following the ACI specification, Journal of Civil and Earthquake Engineering (ISSN: 1996-9066), 1:22-28. 1a. Islam, M. M., Bhuiyan, M. A.R., Rashid, M. M., 2007. Strength behavior of mortar using ground granulated blast furnace slag in plain water, Journal of Civil and Earthquake Engineering (ISSN: 1996-9066), 01:66-74.
Conference articles	57. S. Rana, S. M. M. Islam , M. A. R. Bhuiyan, 2024. Proposed Approach for Seismic Evaluation of Existing Unreinforced Masonry Buildings. 7th International Conference on Advances in Civil Engineering (ICACE-2024),12-14 December 2024, CUET, Chattogram, Bangladesh 56. M. R. Mukhlis , A. Das , S. M. M. Islam , M. A. R. Bhuiyan and A. M. Sikder , 2024. EXPERIMENTAL STUDY ON CYCLIC BEHAVIOR OF RC FRAME INFILLED WITH SANDCRETE BLOCKS. 7th International Conference on Advances in Civil Engineering (ICACE-2024),12-14 December 2024, CUET, Chattogram, Bangladesh 55. M. A. Hossain M. R. Mukhlis, M. A. R. Bhuiyan, 2024. COMPARATIVE STUDY OF RC MOMENT RESISTING FRAME AND WALL-FRAME STRUCTURES BY TIME HISTORY ANALYSIS. 7th International Conference on Advances in Civil Engineering (ICACE-2024),12-14 December 2024, CUET, Chattogram, Bangladesh 54. M. R. Mukhlis, F. Khanam, S. M. M. Islam, A. Das, M. A. R. Bhuiyan and A. M. Sikder, 2022. An Experimental Study on Cyclic Loading Behavior of Conventional Masonry,6th International Conference on Advances in Civil Engineering (ICACE-2022),21-23 December 2022, CUET, Chattogram, Bangladesh 53. S. M. M. Islam, M. A. R. Bhuiyan, T. U. Mohammed, 2022. A proposal of visual rating (VR) method for seismic vulnerability assessment of existing unreinforced masonry buildings,6th International Conference on Advances in Civil Engineering (ICACE-2022),21-23 December 2022, CUET, Chattogram, Bangladesh 52. A.R. Bhuiyan Z. Alam, D. Sen, F. Zahura and A. M. Sikder, 2020.FE macro modeling for in-plane responses of masonry infilled RC frame and comparison with experiment, 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan – September 13th to 18th 2020. 51. S. Rana, M. A. R. Bhuiyan, 2020. Performance-based seismic design of reinforced concrete building frames, 5th International Conference on Advances in Civil Engineering (ICACE-2020),21-23 December 2020,CUET, Chattogram, Bangladesh 50. Zinat Hossain, Mohammad Raihan Mukhlis, Md. Abdur Rahman Bhuiyan and Md. Rabiul Alam, 2020. Seismic safety assessment of flyover piers in Chattogram city, Bangladesh, IABSE-JSCE Conference on Advances in Bridge Engineering (IABSE-JSCE-ABE-4), Dhaka, Bangladesh

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Selected Postgraduate Theses/ Projects (Supervised)

Sl No	Name of Thesis/Project	Project/Thesis
1	H. Alim (2014). Reliability based seismic performance analysis of retrofitted reinforced concrete bridge bents. Supervisor: M A R Bhuiyan	Master's project
2	M. R. Mukhlis (2018). Development of seismic fragility curves of Kadamtali flyover in Chittagong city	Master's thesis
3	A. Haque (2018). Displacement based seismic design of bridges. Supervisor: M A R Bhuiyan	Master's project
4	A K M. T. Alam (2014). Improved rheology modeling of high damping rubber bearings for seismic analysis. Supervisor: M A R Bhuiyan	Master's thesis
5	A. Hasan (2016). Seismic fragility assessment and retrofit of a hospital building in Chittagong. Supervisor: M A R Bhuiyan	Master's thesis
6	Effect of infill walls on seismic responses of RC buildings. Supervisor; M A R Bhuiyan	PGD project
7	A K M. T. Alam (2016). Use of shape memory alloy in seismic retrofit of multi-span simply supported elevated highway. Supervisor: M A R Bhuiyan	PGD project
8	Seismic risk assessment of important buildings in Chittagong city	PGD project
9	Seismic vulnerability assessment of existing reinforced concrete and masonry buildings at CUET campus. Supervisor: M A R Bhuiyan	PGD project
10	Seismic safety assessment of government primary school buildings in Chittagong city corporation. Supervisor: M A R Bhuiyan	PGD project
11	S. Rana (2024). Performance based seismic design of RC building frames: A case study. Co-supervisor: M A R Bhuiyan	Master's Thesis
12	Zinat Hossain (2020). Seismic safety assessment of flyover piers in Chattogram city, Bangladesh. Co-supervisor: M A R Bhuiyan	Master's Project
13	S. M. M. Islam (2024). Visual rating method for seismic vulnerability assessment of unreinforced masonry buildings. Co-supervisor: M A R Bhuiyan	Master's Thesis
14	A.H.M.M. Billah (2009). Seismic performance of bridges fitted with various dampers. Co-supervisor: : M A R Bhuiyan	Master's Thesis

Selected Postgraduate Theses/ Projects (Continuing):

Sl No	Name of Research/ Project Works	Degree Level
1	M. R. Mukhlis (2019). Rheology modeling of masonry infilled RC frames for seismic analysis. Supervisor: M A R Bhuiyan	PhD Dissertation
2	S. Islam (2024). Out-of-plane seismic behavior of AAC block infilled RC frame using Shake table test. Supervisor: M A R Bhuiyan	Masters Thesis
3	A. K. T. Alam (2014). Effect of spatial arrangement of shear walls on seismic behavior of RC buildings. Supervisor: M A R Bhuiyan	Masters Thesis
4	Ashik (2024). Seismic retrofit of existing PC Girder bridge with seismic isolation device (Lead Rubber Bearing). Supervisor: M A R Bhuiyan	PGD
	S. M. M. Islam (2024). Visual Rating Method for Seismic Vulnerability Assessment of Unreinforced Masonry Buildings. Co-supervisor: M A R Bhuiyan	

Research/ Project works completed:

Sl No	Name of Projects	Source of fund
1	Regional Center of Excellence of Disaster and Environmental Engineering (ReCEDEE): a joint project by University of Kassel, Germany and Regional Institutions (Two Universities of Bangladesh, National Institute of Engineering, India, and One University of Nepal), 2008-2012	DAAD
2	South Asian Network for Disaster and Environmental Engineering (SANDEE):a joint project by University of Kassel, Germany and Regional Institutions (Two Universities of Bangladesh, National Institute of Engineering, India, and One University of Nepal), 2013-2016	DAAD
3	Seismic vulnerability assessment of important buildings in Chittagong	Government of Bangladesh
4	Seismic vulnerability assessment of Govt. primary school buildings in Chittagong	Government of Bangladesh
5	Seismic vulnerability assessment of important buildings in Chittagong (Phase-II)	Government of Bangladesh
6	Seismic vulnerability assessment of RC buildings in CUET campus (Phase-I)	Government of Bangladesh
7	Seismic vulnerability assessment of RC buildings in CUET campus (Phase-II)	Government of Bangladesh
8	Earthquake Catalogue of Bangladesh based Moment Magnitudes	Government of Bangladesh
9	Seismic safety assessment of Akhtaruzzaman flyover in Chittagong	Government of Bangladesh
10	Development of rate-dependent laminated rubber bearings and its use in seismic performance analysis of bridge	Government of Bangladesh

Other Administrative/ Professional Responsibilities:

Period	Employing organization and title/ position. Contact Information for references	Country

November 2024 to date	**Organization**: Chittagong Medical University **Position:** External Member, Project Evaluation Committee, Construction of Chittagong Medical University **Reference:** VC, Chittagong Medical University	Bangladesh
2017-2023	**Organization**: Chittagong Development Authority **Position:** External Member, Nagar Unnayan Committee **Reference:** Chief Engineer, Chittagong Development Authority	Bangladesh
2019-2021	**Organization**: Bangladesh Film Development Corporation (BFDC) **Position:** External Member, Project Evaluation Committee, Construction of BFDC Complex Project **Reference:** Director (Engg), BFDC Telephone:+8801711669426	Bangladesh
January 2022 to August 2024	**Organization**: Rajshahi University of Engineering & Technology (RUET), Rajshahi **Position:** Member, Selection Board for Lecturer and Assistant Professor **Reference:** Registrar, RUET **Telephone:**	Bangladesh
August 2015 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Selection Board for Lecturer and Assistant Professor **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
August 2017 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Selection Board for Associate Professor and Professor **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
March 2022 to date	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Quality Assurance Committee (QAC), IQAC **Reference:** Director, IQAC, CUET **Telephone: +880 1741344123**	Bangladesh
January 2015 to December 2016 & January 2019 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Syndicate **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
January 2012 to date	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position**: Member, Academic Council **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
December 2013 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member Secretary, Board of Governors, IEER **Reference**: Director, Institute of Earthquake Engineering Research (IEER) **Telephone: +880 31 714910**	Bangladesh
December 2013 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position**: Chairman, Academic Committee for Research and Studies **Reference**: Director, Institute of Earthquake Engineering Research (IEER) **Telephone: +880 31 714910**	Bangladesh

December 2013 to August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Chairman, Academic Committee for Research and Studies **Reference**: Director, Institute of Earthquake Engineering Research (IEER) **Telephone: +880 31 714910**	Bangladesh
August 2015 to August 2017	**Position:** Chairman, Academic Committee for Postgraduate Studies **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
April 2012 to August 2023	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Committee for Higher Studies and Research (CHSR) **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
April 2012 to date	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Academic Committee for Postgraduate Studies **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
April 2002 to date	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Academic Committee for Undergraduate Studies **Reference:** Head, Department of Civil Engineering, CUET **Telephone:** 88-031-714948	Bangladesh
December 2017 August 2019	**Organization**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Member, Discipline Committee **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh
July 2005 to September 2006	**Employer**: Chittagong University of Engineering & Technology (CUET), Chittagong-4349 **Position:** Assistant Provost, Dr. Q K Hall, CUET **Reference:** Registrar, CUET **Telephone: +880 31 714910**	Bangladesh

Other experience that best illustrates your capability as QA professional

Position	**Name of the Committee and Organization**	**Duration**
Member/ Chair	Evaluation Team for Outcome based Accreditation of Engineering Programs	2017 to date
Member	Quality Assurance Committee, IQAC, CUET	Jan 2022- to date
Chair	Internal Review Committee for OBE-based Curriculum, CUET	2022
Member Secretary	BAETE Coordination Committee, IEB	Aug 2020- to date
Chair	Self-Assessment Committee, DoCE, CUET	June 2016-Aug 2017
Member	Evaluators' Assessment Committee, BAETE	August 2023 to date

Social Responsibilities (Leadership role):

Period	**Organization and title/ position. Contact Information for references**	**Country**

January 2016 to December 2017	**Organization**: Chittagong University of Engineering & Technology Teachers' Association (CUETTA), Chittagong-4349 **Position: President**	Bangladesh
January 2013 to December 2013	**Organization**: Chittagong University of Engineering & Technology Teachers' Association (CUETTA), Chittagong-4349 **Position: Vice-President**	Bangladesh
January 2022- to date	**Organization**: Chittagong Engineering University School and College, Chittagong-4349 **Position:** Chairman, Academic Sub-Committee	Bangladesh

Training (as Resource Person):

QA Areas	Organized by	Year & Duration
Complex Engineering Problems and Activities in Engineering Programs	DoCSE, CUET	2020, Sep 22
Complex Engineering Problems and Activities in Engineering Programs	DoCEE, NSU	2020, Sep 09
BAETE-BEM joint workshop on complex engineering problems and complex engineering activities	BAETE, IEB	2020, Aug 27
Preparation of self-assessment report for BAETE accreditation	IQAC, RUET	2020, Feb 16
Preparation of self-assessment report for BAETE accreditation	IQAC, PCIU, Chattogram	2019, Apr 22
Preparation of self-assessment report for BAETE accreditation	IQAC, CUET	2019, Apr 22
Implementation of OBE: Teaching, Learning and Assessment Activities	IQAC, PCIU	2024, 16, 18-19 March
Hybrid Teaching-Learning Strategies for Addressing CEPs and CEAs in Engineering Programs	IQAC, CUET	2024, 19 Feb

Training (as Participant):

QA Areas	Organized by	Year & Duration
Motivational Workshop on Quality Assurance & Accreditation in Higher Education	BAC	2021, 1 day
Assessing Learning Online – Assessing Application & Solutions for Lab- and Studio-based Courses	UGC	2021, 1 day
Online orientation and discussion session on accreditation evaluation by Program Evaluators-II	BAETE, IEB	2021, 4 days
Hybrid (In-person and on-line) Interaction Sessions for Program Evaluators	BAETE, IEB	2021, 2 days
Online orientation and discussion session on accreditation evaluation by Program Evaluators-I	BAETE, IEB	2021, 4 days
Advancing Bangladesh's Future by Integrating Life Performance and Skills-Based Models of Learning	IN4OBE Bangladesh local Chapter	2021, 1 day
International Symposium on Quality Assurance in Engineering Education Through Accreditation-II	BAETE, IEB	2020, 2 days
Orientation and Discussion Session for Program Evaluators from Academy on Drafting, Finalizing and Assessing Evaluation Team Onsite Visit Reports	BAETE, IEB	2019,2 days
International Symposium on Quality Assurance in Engineering Education Through Accreditation-I	BAETE, IEB	2019, 1 day
Experience Sharing Session with program Evaluators on OBA	BAETE, IEB	2018, 2 days

Training on Outcome Based Teaching Learning Methodologies-2	IQAC, CUET	2018, 1 days
Training on Outcome Based Teaching Learning Methodologies-1	IQAC, CUET	2017, 2 days
Training on Role, Responsibilities and Ethics of Teaching Profession	IQAC, CUET	2018,1 day
Workshop on Self- Assurance & Quality Assurance in Higher Education	IQAC, CUET	2017, 1 day
Seminar on Building Awareness on QA to Stakeholders	IQAC, CUET	2016, 1 day
Workshop on Awareness Building Self Assurance & Quality Assurance in Higher Education	IQAC, CUET	2016, Feb 11
Short Course on Pollution Prevention and Waste Management, Professional Development Program 4.	CERM, BUET	2003,3 days
The 5th Regional Center for Excellence of Earthquake and Disaster Engineering (ReCEEDE) Workshop. Held on May 3 , 2010 to May 8, 2010 at UniKassel, University of Kassel, Germany	University of Kassel, Germany	2010, 6 days
Workshop on Global Earthquake Model (GEM) and GEM Technical Training, Kathmandu, Nepal.	NSET, Nepal	2013, 3 days

Language Skills (Other than Bengali as native language):

Language
English
Arabic
Japanese

Reference

1. Dr. A F M Saiful Amin, Professor, Department of Civil Engineering, BUET, Dhaka, Bangaldesh
2. M. Shahria Alam, Professor, Department of Civil Engineering, Faculty of Applied Science, The University of British Columbia Okangan, Canada

ARBhuiyan October 22, 2024