

# Curriculum Vitae

Syed Shahadat Hossain, Ph.D.

*Professor of Applied Statistics and Data Science  
Institute of Statistical Research and Training (ISRT)  
And  
Director, Dhaka University Research Coordination  
and Monitoring Cell (DURCMC)*

*University of Dhaka,  
Dhaka 1000, BANGLADESH*



## SHORT RESUME

I have been serving as a Professor of Applied Statistics at the University of Dhaka since April 2004. My journey began as a Lecturer of Statistics in the Department of Statistics at the same university back in 1990. On June 06, 2023, I took on the role of Director for the recently established Dhaka University Research Coordination and Monitoring Cell (DURCMC). Additionally, from January 2002 to January 2005, I held the position of Director at the Institute of Statistical Research and Training (ISRT) at the University of Dhaka. My professional experience also extends to international contexts. I served as a Lecturer at the School of Computing and Mathematics at Deakin University, Australia, from 2000 to 2002. During this period, I was also involved in part-time teaching at Royal Melbourne Institute of Technology University and Deakin University from 2000 to 2001. In recognition of my expertise, I was invited as an Academic Visitor at the School of Computing and Mathematics, Deakin University, Australia, in 2000. Moreover, I had the privilege of being a Visiting Fellow under the Commonwealth Fellowship Programme at the School of Mathematics and Statistics, Newcastle University, UK, in 2008.

Throughout my academic journey, I've actively engaged in part-time teaching across various institutions, including East West University, BRAC University, Green University, and Bangladesh University of Professionals. My professional profile encompasses several key strengths:

**1. Distinctive Academic Background:** I earned my Ph.D. in Statistics from Deakin University, Australia, in 2000. During my doctoral journey, I was honored to receive the Deakin University Postgraduate Research Scholarship. Prior to my Ph.D., I completed both my B.Sc. Honours and M.Sc. degrees in Statistics from the University of Dhaka in 1988 and 1989. In recognition of my outstanding academic performance, I secured the Q.M. Husain awards for ranking second and first in the merit list for the B.Sc. and M.Sc. examinations, respectively.

**2. Extensive Teaching Experience:** Over the years, I've embraced the role of a Professor of Applied Statistics at the University of Dhaka since April 2004. Beyond this, I also contributed as a Lecturer at Deakin University, Australia, from 2001 to 2002. My teaching journey commenced in 1990 as a lecturer in the Department of Statistics at the University of Dhaka. Throughout my teaching career, I've honed my skills in lecture preparation and delivery, research student supervision, curriculum development, and more.

**3. Significant Research Achievements:** My research pursuits have yielded notable contributions, particularly in environmental sampling and data analysis. During my Ph.D., I delved into Ranked Set Sampling, a novel environmental sampling methodology. I've authored numerous research papers in esteemed international statistical journals and have explored topics in sampling techniques, Bayesian spatio-temporal modeling, third-phase clinical trial designs, and Official Statistics.

**4. Proficiency in Modern Technologies:** I'm adept at utilizing modern technologies to enhance teaching and learning experiences. From multimedia projectors to distance learning tools, I've integrated innovative approaches into classroom dynamics. My proficiency extends to conducting classes across multiple campuses using video conferencing and facilitating off-campus courses via online platforms.

**5. Wide-ranging Consultancy Experience:** I've lent my expertise to various governmental and non-governmental organizations, including the Central Bank of Bangladesh, Planning Commission of Bangladesh, UN agencies, and international development institutions. My consultancy work spans statistical analysis, research coordination, and negotiation with clients on successful project outcomes.

**6. Demonstrated Leadership and Interpersonal Skills:** I've showcased my leadership prowess as the Director of the Institute of Statistical Research and Training (ISRT), University of Dhaka. I skillfully managed academic, administrative, and financial aspects, fostering growth and accomplishments within the institute. I've actively participated in committees, meetings, and collaborative research, consistently earning praise for my proactive approach and effective communication.

**7. Enthusiasm for Education Development:** My contributions extend beyond academia. I've been involved in designing high-quality syllabi and advocating for enhanced grading systems. I've supervised training courses, promoted interdisciplinary teaching, and actively engaged in promoting statistical education and research.

**8. Engagement with Professional Organizations:** My commitment to the discipline is evident through my membership in professional associations like the Bangladesh Statistical Association (bsa) and Bangladesh Population Association. I've also contributed to the establishment of the Dhaka University Statistics Department Alumni Association (DUSDAA) and have co-organized international conferences.

In my new role as Director of the Center for Testing, Consultancy and Research Monitoring (CTCRC), Dhaka University, I am enthusiastic about streamlining research initiatives within the university. My journey reflects a deep-seated passion for education, research, leadership, and innovation.

## EDUCATION

**2000**

Ph. D. in Statistics

School of Computing and Mathematics,  
Deakin University, Australia.

**1989**

Master of Science (M.Sc.) in Statistics  
(Partially Research)

Department of Statistics, University of Dhaka,  
Dhaka, Bangladesh.  
Placed in the *First Class First Position*

**1988**

Bachelor of Science (B.Sc.)  
Honours in Statistics

Department of Statistics, University of Dhaka,  
Dhaka, Bangladesh.  
Placed in the *First Class Second Position*  
Subsidiary Subjects Studied: Mathematics and Economics.  
Notre Dame College, Dhaka,

**1981**

Higher Secondary Certificate (HSC)

(Under Board of Intermediate and Secondary Education,  
Dhaka)

**1979**

Secondary School Certificate (SSC)

Placed in the *First Division*

West End High School, Dhaka,

(Under Board of Intermediate and Secondary Education,  
Dhaka)

Placed in the *First Division*

## CURRENT EMPLOYMENT (Full-time)

**24 April 2004 – till to date**

**Professor of Applied Statistics**

*Institute of Statistical Research  
and Training (ISRT)*

*University of Dhaka, Bangladesh.*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Applied Statistics and Data Science, participating in development of course curriculum, academic and administrative activities in ISRT. To conduct and lead individual and collaborative research, supervising Ph.D., M. Phil, M. S. and B. S. (honours) thesis and projects.

**June 2023 – Present**

**Director (Head)**

*Dhaka University Research Coordination and  
Monitoring Cell (DURCMC),*

*University of Dhaka, Bangladesh.*

*(Additional responsibility)*

*Key responsibilities:* In addition to the teaching and research responsibility at the Institute of Statistical Research and Training (ISRT), the role of Director of the DURCMC includes (but is not limited to) overall monitoring, management, coordination and provide support for the research activities, consultancy and testing services carried out in different departments and institutes of the University and also to look after all administrative and financial matters of DURCMC. The Director is responsible for initiating and settling down all issues related to future policy making, fund-generating, keeping liaison with the Vice Chancellor and recruitment of support staff.

***EMPLOYMENT RECORD (Full-time)***

**24 June 2000 – 23 April 2004**

**Associate Professor of  
Applied Statistics**

*Institute of Statistical Research  
and Training (ISRT)  
University of Dhaka, Bangladesh.*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Applied Statistics and Data Science, participating in development of course curriculum, academic and administrative activities in ISRT. To conduct and lead individual and collaborative research, supervising Ph.D., M. Phil, M. S. and B. S. (honours) thesis and projects.

**15 Oct 1995 – 23 June 2000**

**Assistant Professor of Statistics**

*Department of Statistics,  
University of Dhaka, Bangladesh.*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics and conducting individual and collaborative research, supervising M. S. and B. S. (Honours) thesis and projects.

**07 April 1990 – 14 Oct 1995**

**Lecturer of Statistics**

*Department of Statistics,  
University of Dhaka, Bangladesh.*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics and conducting individual and collaborative research, supervising M. S. and B. S. (Honours) thesis and projects.

***INTERIM EMPLOYMENT (Full-time)***

**January 2008 – June 2008**

**Visiting Fellow**

*Department of Mathematics & Statistics,  
University of Newcastle, Newcastle Upon Tyne,  
U.K. (On leave from University of Dhaka)*

*Key responsibilities:* To conduct individual and collaborative research under the funding of the Commonwealth Fellowship Award (**post-doctoral program**).

**January 2005 – January 2006**

**Professor of Statistics**

*East West University  
Dhaka, Bangladesh.  
(On leave from University of Dhaka)*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics, participating in development of course curriculum. To conduct and lead individual and collaborative research.

**July 2001 – June 2002**

**Visiting Fellow (Honourary)**

*School of Computing and Mathematics, Deakin  
University, Australia. (On leave from  
University of Dhaka)*

*Key responsibilities:* To conduct individual and collaborative research under the funding of the Commonwealth Fellowship Award.

**July 2001 – June 2002**

**Lecturer in Statistics (in addition to the research fellowship)**

*School of Computing and Mathematics,  
Deakin University, Australia.  
(On leave from University of Dhaka)*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics and conducting individual and collaborative research, supervising undergraduate and graduate thesis and projects.

**June 2000– June 2001**

**Sessional Lecturer**

*Department of Statistics and OR,  
RMIT University, Melbourne, Australia.  
(On leave from University of Dhaka)*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics and conducting individual and collaborative research, supervising undergraduate and graduate thesis and projects.

**June 2000– June 2001**

**Sessional Lecturer**

*School of Computing and Mathematics, Deakin  
University, Australia.  
(On leave from University of Dhaka)*

*Key responsibilities:* Preparing course materials and teaching courses in undergraduate and graduate courses in Statistics and conducting individual and collaborative research, supervising undergraduate and graduate thesis and projects.

**Feb 1996 – June 2000**

**Deakin University Post Graduate  
Research Scholar**

*School of Computing and Mathematics, Deakin  
University, Australia.  
(On leave from University of Dhaka)*

*Key responsibilities:* Conducting Ph. D. research

### ***ADMINISTRATIVE ROLE (Full-time)***

**June 2023 – Tildate**

**Director (Head)**

*Dhaka University Research Coordination and  
Monitoring Cell (DURCMC),  
University of Dhaka, Bangladesh.  
(Additional responsibility)*

*Key responsibilities:* In addition to the teaching and research responsibility at the Institute of Statistical Research and Training (ISRT), the role of Director of the DURCMC includes (but is not limited to) overall monitoring, management, coordination and provide support for the research activities carried out in different departments and institutes of the University and to look after all administrative and financial matters of DURCMC. The Director is responsible for initiating and settling down all issues related to future policy making, fund-generating, keeping liaison with the Vice Chancellor and recruitment of support staff.

**January 2002 – January 2005**

**Director (Head of the Institute)**

*Institute of Statistical Research  
and Training (ISRT)*

*University of Dhaka, Bangladesh.*

*(Additional responsibility)*

*Key responsibilities:* In addition to the teaching and research responsibility the role of Director included (but is not limited to) overall supervision, monitoring, management and evaluation of all academic (both teaching and research), administrative and financial matters of the institute. Notable that the ISRT is one of the 8 institutes of the University of Dhaka and offers B. S. Honors, M.S, M.Phil. and Ph. D. programs in Applied Statistics. The institute constitutes of approximately 400 students, 30 faculty members and about 20 support staffs. The Director is responsible for initiating and settling down all issues related to future policy making, curriculum development, fund-generating, keeping liaison with the Vice Chancellor, recruitment of faculty members/support staff and admission of students.

### ***OTHER WORK EXPERIENCES***

**September 2003 – June 2006**

**Honourary Academic Director**

*PML (Bangladesh campus for MBA  
programme of Royal Roads University (RRU)  
BC, Canada)*

Over-seeing all academic activities and keeping liaison with the mother university (RRU). Preparing course materials and teaching Statistics courses in BBA and MBA.

**June 2007 – June 2016**

**Adjunct faculty**

*BRAC Business School,  
BRAC University, Bangladesh.*

Designing and preparing course materials and teaching Statistics courses in BBA and MBA programs.

**June 2016- till to date**

**Adjunct faculty**

*Bangladesh University of Professionals (BUP),  
Bangladesh.*

Designing and preparing course materials and teaching Statistics courses in EMBA, Mphil and PhD programs.

### ***COURSES DEVELOPED AND TAUGHT (Selected)***

*Elements of Applied Statistics (Level 1)*

*Elements of Probabilities (Level 1)*

*Probability Distributions (Level 2)*

*Sampling Techniques (Level 2)*

*Sampling Distributions (Level 2)*

*Statistical Inference (Level 2)*

*Advanced Sampling Theories (Level 3)*

*Design and Analysis of Experiments (Level 3)*

*Regression Analysis (Level 3)*

*Research Planning, Monitoring and Evaluation (Level 3)*

*Advanced Statistical Inference (Level 4)*

*Nonparametric Statistics (Level 4)*

**FIELD OF EXPERTISE AND  
RESEARCH INTEREST**

Statistical Inference  
Sampling Techniques  
Ranked Set Sampling

Official Statistics  
Population and Health Statistics  
Survey Research Methodologies

**RESEARCH PUBLICATIONS**

- Scopus ID: 7102204294
- ORCID: 0000-0001-7294-1190
- Google Scholar Citation:  
[https://scholar.google.com/citations?hl=en&user=UUeKJRUAJ&view\\_op=list\\_works&sortby=pubdate&gmla=AF9nlQsLGMb1YQ\\_1Br4rsz4byYAmkf-YH4fcHQ5ylGKgVPICsaNLOEjR7TPPTTwAPgiKj2Fu\\_iCof-8Sezq8iCCzpkyl5wFQM3zYGn7tai8&sciund=8274449769875747747](https://scholar.google.com/citations?hl=en&user=UUeKJRUAJ&view_op=list_works&sortby=pubdate&gmla=AF9nlQsLGMb1YQ_1Br4rsz4byYAmkf-YH4fcHQ5ylGKgVPICsaNLOEjR7TPPTTwAPgiKj2Fu_iCof-8Sezq8iCCzpkyl5wFQM3zYGn7tai8&sciund=8274449769875747747)

**Articles**

1. **Hossain, Syed S**, Gulshan, J, Rashid, B, Sayem, SM and Aranya, SG (2025). Higher Pre- and Post-Monsoon Temperatures and Their Impact on Child Undernutrition in Bangladesh, Maternal & Child Nutrition, To Appear, Wiley.
2. Raza, WA, Misha, F, **Hossain, Syed S**, Gulshan, J, Rashid, B, Sayem, SM, Aranya, SG, Chaudhery, D (2025). Extreme heat exposure in the first 1000 days: Implications for childhood stunting in Bangladesh, Public Health, <https://doi.org/10.1016/j.puhe.2025.02.002>
3. **Hossain, Syed S.** and MR Islam (2024), Crafting Disaster-Driven Statistics: A Strategic Sampling Model, *International Journal of Statistical Sciences*, **24** (1), 49-64.
4. Sheikh Mohammad Sayem and **Hossain, Syed S.** (2022). Holistic Inferential Approach for Restricted Parameters in Multivariate Regression with Continuous Responses: A Monte Carlo Experiment. *Bull. Malays. Math. Sci. Soc.* **45**, S523–S537.
5. Tahmina Begum, **Hossain, Syed S.**, and A. Khan (2022). Smoothing the detection function using moving average: Estimation of density and detectability index. *International Research Journal of Modernization in Engineering Technology and Science*, **4** (5):1026-1049, 2022.
6. Lipi, N., Alam, M. S. and **Hossain, Syed S.** (2021). Spatio-temporal Analysis of Infant Mortality in Bangladesh (2007-2017), *South Asian Journal of Population and health*, **12** (1&2), 19-29.
7. Rashid, M. B., **Hossain, Syed S.**, Mannan, M. A., Parding, K. M., Hygen, H. O., Benestad, R. E., and Mezghani, A. (2021): Climate change projections of maximum temperature in the pre-monsoon season in Bangladesh using statistical downscaling of global climate models, *Adv. Sci. Res.*, **18**, 99–114.
8. Matieu Henry et al. (2021). A multi-purpose National Forest Inventory in Bangladesh: design, operationalisation and key results, *Forest Ecosystems*, **8** (12), 1-22.

9. Lipi, N., Alam, M. S. and **Hossain, Syed S.** (2021). A Generalized Estimating Equations Approach for Modeling Spatially Clustered Data, *Austrian Journal of Statistics*, **50**, 36–52.
10. Mahmud, S., Islam, M. A. and **Hossain, Syed S.** (2020). Analysis of Rainfall Occurrence in Consecutive Days Using Markov Models with Covariate Dependence in Selected Regions of Bangladesh, *Theoretical and Applied Climatology*, **140**, 1419–1434.
11. Hossain, M. B. and **Hossain, Syed S.** (2020). Probabilistic estimation of seismic parameters for Bangladesh, *Arabian Journal of Geosciences*, **13** (1), 262.
12. Rashid, M. B., & **Hossain, Syed S.** (2020). Future Projection of Mean Temperature of Post-Monsoon Season Over Bangladesh Using Statistical Downscaling of Global Climate Models. *Journal of Engineering Science*, **11**(2), 27-35.
13. Uddin, M. K., Raisa, S. A. and **Hossain, Syed S.** (2019). Exploring Predictors of Academic Success of the First Year Undergraduate Students of the University of Dhaka, *Bangladesh Journal of Psychology*, **22**, 141-156.
14. Rashid, M. Bazlur and **Hossain, Syed S.** (2019). Projection for Temperature of Monsoon Season over Bangladesh using Statistical Downscaling of Global Climate Model (GCM), *The Atmosphere: A Scientific Journal of Meteorology and Geo-Physics*, **8** (1), 60-67, published by the Bangladesh Meteorological Department, Bangladesh.
15. Md. Ashraful Islam and **Hossain, Syed S.** (2019). Assessment of Farmers' Perception and Satisfaction on Current Paddy Procurement System in Selected Areas of Bangladesh: A Quantitative Analysis, *University of South Asia Journal (USAJ)*, **05** (1), 9-30.
16. M. S. Alam, **Hossain, Syed S.** and Farha Ferdous Sheela (2019). Spatial smoothing of low birth weight rate in Bangladesh using Bayesian hierarchical model, *Journal of Applied Statistics*, **46** (10), 1870-1885, Published online by the Taylor and Francis Publishers, USA, UK.
17. Rashid, M. Bazlur and **Hossain, Syed S.** (2018). Statistical Downscaling of Global Climate Model (GCM) Outputs for Climate Change Impact Assessment of Mean Temperature of the Winter Season over Bangladesh, *The Journal of NOAMI*, **35** (1 & 2), 45-58, published by the National Oceanographic and Maritime Institute, Bangladesh.
18. Khan, A., S Rahman and **Hossain, Syed S.** (2018). Less Restrictive Assumption for Distributional Characterization: A g-and-k Distribution Approach, *International Journal of Statistics and Economics*, **19** (4), 14-26.
19. Chowdhury, S. A. and **Hossain, Syed S.** (2017). Usability of Adaptive Cluster Sampling for Identifying the Land Producing Hybrid Boro Crop in Bangladesh, *The Bangladesh Journal of Agricultural Economics*, **38** (1&2), 103-113. Published by The Bureau of Socio-economic Research and Training, Bangladesh Agricultural University.
20. **Hossain, Syed S.** and M. S. Alam (2017). Misspecification Effect In Bootstrap Variance Estimation For Estimators of the Population Mean, *Far East Journal of Theoretical Statistics*, **53**, 1-18.
21. **Hossain, Syed S.** and N. Awan (2017). Efficient Estimation in Two-stage Randomized Clinical Trials Using Ranked Sets, *Journal of Biopharmaceutical Statistics*, **27** (5), 869-884.
22. Alam, M. S. and **Hossain, Syed S.** (2016). A Geostatistical Approach to Predict the Average Annual Rainfall of Bangladesh, *Journal of Data Science*, **14** (1), 149-166.
23. H. S. Akareem and **Hossain, Syed S.** (2016) Determinants of Education Quality: What Make the Students' Perception Different?, *Open Review of Educational Research*, **3**(1), 52-67. Published by the Taylor and Francis Publishers, USA, UK.
24. Roy, P. K., J. Gulshan and **Hossain, Syed S.** (2016). Spatially Revised Estimation of Infant Mortality in Bangladesh, *Spatial Demography*, **5** (1), 25–42.
25. Chowdhury, F., Gulshan, J. and **Hossain, Syed S.** (2015). A Comparison of Semi-parametric and Nonparametric Methods for Estimating Mean Time to Event for Randomly Left

- Censored Data, *Journal of Modern Applied Statistical Methods*, 14(1), 196-207. Published by Wayne State University Library System.
26. Gulshan, J., Mina, M. M. and **Hossain, Syed S.** (2015). Migration Pattern in Bangladesh: A Covariate Dependent Markov Model, *Journal of Applied Statistics*, 42 (7), 1519-1530. Published by the Taylor and Francis Publishers, USA, UK.
  27. **Hossain, Syed S.**, Chowdhury, M. and Sadia, F. (2015). Parametric Approaches for Estimating the Number of Species of Water Birds of Bangladesh, *Journal of Environmental Statistics*, 7(4), 1-13. Published by UCLA Department of Statistics.
  28. Roy, P. K., and **Hossain, Syed S.** (2014). Predicting arsenic concentration in groundwater of Bangladesh using Bayesian geostatistical model. *Environmental and Ecological Statistics*, 21, 583-597. Published by the Springer Publishers, USA, UK.
  29. Sadia, F. and **Hossain, Syed S.** (2014). Contrast of Bayesian and Classical sample Size Determination. *Journal of Modern Applied Statistical Methods*, 13(2), 420-431. Published by Wayne State University Library System.
  30. H. S. Akareem and **Hossain, Syed S.** (2012) Perception of education quality in private universities of Bangladesh: a study from students' perspective, *Journal of Marketing for Higher Education*, 22 (1), 11-33. Published by the Taylor and Francis Publishers, USA, UK.
  31. **Hossain, Syed S.** (2012) Survey Methodology and Estimating Formulae: Sample Census 2011, *Proceedings of International Workshop on Large Scale National Surveys*, Rajshahi University, 11-19. Published by the Department of Statistics, Rajshahi University, Bangladesh.
  32. Mahsin, M. and **Hossain, Syed S.** (2012) Population forecasts for Bangladesh, using a Bayesian methodology, *Journal of Health Population and Nutrition*, 30(4), 456-63. Published by the ICDDR,B, Bangladesh.
  33. Afzal, N., and **Hossain, Syed S.** (2011) An Empirical Analysis of the Relationship between Macroeconomic Variables and Stock Prices in Bangladesh, *Bangladesh Development Studies*, 34(4), 95-105. Published by the Bangladesh Institute of Development Studies (BIDS), Bangladesh.
  34. Bakar K. S. and **Hossain, Syed S.** (2010) Inference on Environmental Population Using Horvitz–Thompson Estimator, *Journal of Environmental Informatics*, 16 (1), 27-34. Published by the International Society for Environmental Information Sciences.
  35. Md. Mostafa Ali Sarkar, Molla Huq and **Hossain, Syed S.** (2010) Consideration Of Detectability And Sampling In Measuring Biodiversity, *Pakistan Journal of Statistics*, 26 (2), 339-355. Published by the Pakistan Journal of Statistics Publishers, Pakistan.
  36. Khan A. and **Hossain, Syed S.** (2010) Many Sample Location Test With Quantile-Function Error Distributions: An Almost Robust Test, *Journal of Statistics and Application*, 5 (2), 139-160. Published by the MD Publications Pvt. Limited (MDPPL).
  37. Mahsin, M. and **Hossain, Syed S.** (2009) Population Projection of Bangladesh using MCMC Technique in Bayesian Inference. *South Asian Journal of Population and Health*, 2(1), 89-98. Published by the World University Of Bangladesh.
  38. Homayara, F., **Hossain, Syed S.** and Khan, A. (2009) Sensitivity Analysis of Structural Equation Model with Non-normal Observed Variable, *Journal of Interdisciplinary Mathematics*, 12(4), 499-513. Published by the Taylor and Francis Publishers, USA, UK.
  39. Masum A. Patwary, William Thomas O'Hare, Graham Street, K. Maudood Elahi, **Hossain, Syed S.**, Mosharraf H. Sarker (2009) Quantitative assessment of medical waste generation in the capital city of Bangladesh, *Waste Management*, 29, 2392–2397. Published by the Elsevier Publishers, USA, UK.
  40. Patwary, M.A., O'Hare, W.T., Street, G., Elahi, K.M., **Hossain, Syed S.**, Sarker, M.H., (2009) Health and safety perspective on medical waste management in a developing country: A case study of Dhaka city, *FAIM 2009*, University of Teesside.

41. Hossain A. and **Hossain, Syed S.** (2009) Numerical Maximum Likelihood Estimation (NMLE) for the g-and-k Distribution Using Ranked Set Sample (RSS), *Journal of Statistics*, 16, 45-58. Published by the Department of Statistics, GC University, Lahore, Pakistan.
42. Islam, T., M. R. Shaibur, and **Hossain, Syed S.** (2009) Effectivity of Modified Maximum Likelihood Estimators Using Selected Ranked Set Sampling Data, *Austrian Journal of Statistics*, 38 (2), 109-120. Published by the Austrian Statistical Society, Austria.
43. **Hossain, Syed S.** and Khan, A. (2008) Sensitivity of Ranked Set Sampling to the Shape Characteristics of the Underlying Population: A g-and-k Distribution Approach, *Pakistan Journal of Statistics*, 24 (3), 207-216. Published by the Pakistan Journal of Statistics Publishers, Pakistan.
44. Borhan, A. S. M., **Hossain, Syed S.** and Khan A. (2007) A Numerical Likelihood ratio test (NLRT) for one-sample location in symmetric non-normal situations, *Dhaka University Journal of Science*, 55 (2), 225-229. Published by the Faculty of Sciences, University of Dhaka.
45. **Hossain, Syed S.** and Khan A. (2006) Test procedures with selected ranked set sampling, *Statistica*, 46 (2), 161-170. Published by the Department of Statistical Science, University of Bologna, Italy.
46. **Hossain, Syed S.** and Muttlak, H. A. (2006) Hypothesis tests on the scale parameter using median ranked set sampling, *Statistica*, 46 (4), 415-434. Published by the Department of Statistical Science, University of Bologna, Italy.
47. **Hossain, Syed S.** and Khan. A. (2004) Test procedure using paired ranked set sampling data, *Dhaka University Journal of Science*, 52, 271-279. Published by the Faculty of Sciences, University of Dhaka.
48. **Hossain, Syed S.**, Khan, A. and B. Zainab. (2003) Tests of Hypotheses Using Median Ranked Set Sampling Data from the Normal Population, *Journal of Statistical Studies*, 23, 1-9. Published by the Department of Statistics, Jahangir Nagar University, Bangladesh.
49. Khan, A. and **Hossain, Syed S.** (2002) Repeated Application of Ranked Set Sampling, *Journal of Statistical Studies*, 22, 41-45. Published by the Department of Statistics, Jahangir Nagar University, Bangladesh.
50. **Hossain, Syed S.** and Muttlak, H. A. (2001) Selected ranked set sampling, *Australian and New Zealand Journal of Statistics- Theory and Methods*, 43, 311-325. Published by the Blackwell Publishers, USA, UK.
51. **Hossain, Syed S.** (2001) Non-parametric selected ranked set sampling, *Biometrical Journal*, 43, 97-105. Published by the John Wiley Publishers, USA, UK.
52. **Hossain, Syed S.** (2001) MVLUE based on ranked set sampling using concomitant variable, *Bangladesh Journal of Scientific Research*, 19, 17-27.
53. **Hossain, Syed S.** and Muttlak, H. A. (2000) MVLUE of population parameters based on ranked set sampling, *Applied Mathematics and Computation*, 108, 167-176. Published by the Elsevier Science publications, USA.
54. Khan, M. A. and **Hossain, Syed S.** (2000) ANOVA estimation of variance components of two-way heteroscedastic nested random model: A Monte-Carlo study, *Journal of Bangladesh Academy of Sciences*, 24, 243-245, 2000. Published by the Bangladesh Academy of Sciences.
55. Hossain, M. M. and **Hossain, Syed S.** (2000) Fitting daily rainfall occurrence as an alternative renewal process, *Journal of Bangladesh Academy of Sciences*, 24, 187-195. Published by the Bangladesh Academy of Sciences.
56. **Hossain, Syed S.** and Muttlak, H. A. (1999) Paired ranked set sampling: A more efficient procedure, *Environmetrics*, 10, 195-212. Published by the John Wiley Publishers, USA, UK.
57. Khan, M. A. and **Hossain, Syed S.** (1999) Monte-Carlo comparison of MIVQUE (A), MIVQUE(0) and REML estimators of variance components for a two-way heteroscedastic

- nested random model, *Bangladesh Journal of Scientific Research*, **17**, 139-148. Published by the Bangladesh Association Scientists.
58. **Hossain, Syed S.** and Muttalak, H. A. (1998) MIVQUE and REML estimators of variance components under proportionality condition, *Biometrical Journal*, **40**, 845-854. Published by the John Wiley Publishers, USA, UK.
  59. **Hossain, Syed S.** (1996) Restricted maximum likelihood (REML) estimators of variance components of heteroscedastic crossed random models, *Bangladesh Journal of Scientific Research*, **14**, 19-26. Published by the Bangladesh Association Scientists.
  60. Hossain, M. M. and **Hossain, Syed S.** (1996) Estimating the order of markov chain and detecting the nonstationarity of daily rainfall data, *Bangladesh Journal of Scientific Research*, **14**, 169-175. Published by the Bangladesh Association Scientists. (Environmental Modelling)
  61. Hossain, M. M. and **Hossain, Syed S.** (1996) Fitting of Markov chain probability model to daily rainfall occurrence at Sunamgonj, *Dhaka University Journal of Science*, **44**, 303-312. Published by the Faculty of Sciences, University of Dhaka.
  62. **Hossain, Syed S.** and Khan, A. (1995) A Monte-Carlo study on REML estimators of variance components of one-way heteroscedastic crossed random models, *Bangladesh Journal of Scientific Research*, **13**, 21-30. Published by the Bangladesh Association Scientists.
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- 57 Rebeka Sultana, A regression analysis approach for study of valuation in life insurance, M. S. in Applied Statistics, Institute of Statistical Research and Training, University of Dhaka, 2004.
- 58 Tahmina Begum, Smoothing the detection function using moving average estimation of density and detectability index, M. S. in Applied Statistics, Institute of Statistical Research and Training, University of Dhaka, 2004.
- 59 Md. Asaduzzaman , A modified procedures in adaptive cluster sampling using order, M. Sc. in Applied Statistics, Institute of Statistical Research and Training, University of Dhaka, 2001.

- 60 G.M. Muzahidul Quayum, Adaptive line intercept sampling for different clustering, M. Sc. in Applied Statistics, Institute of Statistical Research and Training, University of Dhaka, 2001.
- 61 Md. Monir Hossain, Fitting of Markov chain probability model to daily rainfall occurrence at Sunamgonj, M. Sc. in Statistics, Department of Statistics, University of Dhaka, 1993.
- 62 Md. Asaduzzaman Khan, Estimation of variance components of two-way heteroscedastic random model: A Monte-Carlo study, M. Sc. in Statistics, Department of Statistics, University of Dhaka, 1992.

\* Also supervised about 100 M.S. and B.S. research projects at the ISRT, University of Dhaka.

### MAJOR CONSULTING EXPERIENCES

2025

**Predictive Modelling Expert (Supply-Demand), Thematic Area 9: Supply-Demand Analysis for Crops and Agricultural Products & Long-Term Planning for 2050,**

*Food and Agricultural Organization of the United Nations.*

UNFPA Dhaka

*Key tasks included:* The expert, in collaboration with the Agricultural Economist, Statisticians, and other team members, will jointly undertake the Demand and Supply-Side -Side Analysis of Food demand projections by commodity (cereals, pulses, livestock, horticulture, Nutritional security: Align with WHO dietary guidelines (calories, protein, vitamins) and Non-food demand (biofuels, industrial raw materials) and conduct Gap & Scenarios Analysis and hence contribute to Strategy Development

2025

**Senior Natural Resource Socioeconomic Expert, National Forest Inventory (NFI), Food and Agricultural Organization of the United Nations.**  
UNFPA Dhaka

*Key tasks included:* Review and finalize the socio-economic survey analysis of the National Forest Inventory (NFI), including reporting indicators, national and sub-national level estimations, and comparison between the 1st cycle and the 2nd cycle of the inventory. Provide recommendations for integrating biophysical datasets with socioeconomic data for robust information. Present the estimation approach to the SUFAL PMU and other stakeholders and incorporate the necessary recommendations suggested by them.

2025 (On-going)

**National Consultant, UNFPA 10th Country Program Evaluation, Population Dynamics Component, Bangladesh.**  
UNFPA Dhaka

*Key tasks included:* Designing evaluation tool and questionnaire to assess progress as well as obstacles on the basis of the status of implementation of activities in the population dynamics component of the 10th country program; To provide a Situation Report including the assessment of the alignment according to evaluation matrix; To identify emerging priority population issues and assess the relevance and effectiveness of the ongoing CP in addressing these issues and to make recommendations for the next CP.

**2024**

**National Consultant, Development of a National Toolkit for Citizen-Generated Data in Bangladesh**

*International Civil Society Centre gGmbH  
Agricolastraße 26, 10555 Berlin*

*Key tasks included:* To develop national report/toolkit as that covers the situation of CSO data and their use for public policy and SDG monitoring. Reflections, lessons learned, and recommendations based on the key activities of the project.

**2024**

**Research Team Statistician, Baseline Survey on Financial Inclusion in Bangladesh**

*NFIS Administrative Unit (NAU)  
Bangladesh Bank*

*Key tasks included:* To oversee the designing of sampling methodology, sample frame, size, allocation, setting up questionnaire, field visits, implementation plan, analysis plan and writing of the report.

**2024**

**Consultant  
Tracking Progress towards Health, Demography and Nutrition: An SDG Indicator -Based Analysis**

*'Strengthening the National Statistical System for Coordination in SDGs Data Reporting (SCNSS4SDGs)' Project, Statistics and Informatics Division, Ministry of Planning, Govt. of Bangladesh.*

*Key tasks included:* To evaluate the current status of health, demography, and nutrition data in Bangladesh and their alignment with SDGs including data availability, quality and gaps and to provide recommendations for improving data collection, integration, and reporting.

**2023**

**Lead National Consultant-FSS Project**

*World Food Programme (WFP).*

*Key tasks included:* To provide overall support for the preparation of questionnaire, tabulation plan, analysis of the data and prepare the final report for the Food Insecurity Experience Scale (FIES) Survey. Also to assist the project team in carrying out all activities related to survey, data analysis and prepare final report; Guide and assist the PIU of Food Security Statistics Project 2022 in close consultation with WFP.

**2023**

**Team Lead**

*“Analysing Relationship between Nutrition and Climate Change in Bangladesh” project of World Bank, Dhaka.  
World Bank Group.*

*Key tasks included:* The task entails the development of a district level panel dataset of the BDHS from each round since the year 2000 and to acquire relevant localized weather data and amend it to the panel at the appropriate levels. The data then will be used to: delineate the trends in nutrition status of various cohorts over time; explore how climatic conditions have evolved over time; and establish the correlations between climatic variables and nutrition status.

**2022-23**

**Census Technical Advisor for**

*Bangladesh Population and Housing Census  
2021*

*UNFPA Dhaka Office.*

*Key tasks included:* To provide technical support to Bangladesh Bureau of Statistics on prospective plan and scopes and methodologies for post census activities of Bangladesh Population and Housing Census 2021 including tabulation plan and methodologies of long questionnaire survey and Integrated Multi-Purpose Sample (IMPS).

**2022**

**National Consultant**

*(Strengthening demographic capacity and  
implementing inequality assessments for civil  
registration and vital statistics systems in  
Bangladesh)*

*UNESCAP.*

*Key tasks included:* Implement an inequality assessment of CRVS system using secondary data. To strengthen demographic capacity in the National Statistical Office and other relevant line ministries in the National Statistical System.

**2021**

**National Consultant**

*(Small area estimation and under-nutrition  
mapping adviser for Bangladesh Bureau of  
Statistics)*

*World Food Programme (WFP).*

*Key tasks included:* provide technical guidance and support in the design and implementation of appropriate statistical analysis techniques for SAE and under-nutrition (stunting, under-weight and wasting) mapping keeping relevance with the sampling methods, sample size and survey tools for a full integration of the findings from the primary survey of Multiple Indicator Cluster Survey (MICS).

**2020-21**

**Census Technical Advisor for**

*Bangladesh Population and Housing Census  
2021*

*UNFPA Dhaka Office.*

*Key tasks included:* To provide technical support to Bangladesh Bureau of Statistics on prospective plan and scopes and methodologies for Bangladesh Population and Housing Census 2021.

**2020-21**

**Consultant**

*BD RMNCH Independent Research Group,  
icddr,b, Dhaka*

The objective of this study was to check the data quality of national surveys and surveillances (BDHS, BMMS, MICS and SVRS) for the mortality indicators: Under 5 Mortality Rate, Neonatal Mortality Rate, Post-neo natal Mortality Rate, Infant Mortality Rate, and Maternal Mortality Ratio. The activities included review the methodological aspects of the mortality indicators from national surveys and surveillance and develop a scoring mechanism to assess the quality of these data for measuring mortality.

**2021**

**Consultant**

*Key tasks included:* Designing of field visits, implementation plan, sampling methodology, sample frame, size, and allocation, analysis plan and writing the report of the survey.

*Survey on assessing the threats and risks generated by Covid-19 on Secondary and Higher secondary education 2021, BANBEIS.*

**2020**

**National Consultant**

*(Small area estimation and spatially adjusted demographic indicators from MSVSB, Bangladesh Bureau of Statistics) UNICEF, Dhaka.*

*Key tasks included:* provide technical guidance and support in the design and implementation of appropriate statistical analysis techniques for spatially adjusted SAE at district and upazila level for a number of demographic indicators keeping relevance with the sampling methods, sample size and survey tools for a full integration of the findings from the primary surveillance of MSVSB (SVRS).

**2020**

**Individual Consultant**

*Developing and Operationalizing TVET/Skills Development Sector Performance Monitoring Framework (SPMF) and Improved Reporting Mechanism ILO Dhaka Office*

*Key tasks included:* Review the existing mechanisms; Assess the data, information, and reporting mechanism needed to monitor the performance; Identify the gaps in the availability of quality data; Design the workflow and organizational arrangements; Assess the institutional capacity gaps and Develop action plan for implementation of SPMF to restructure the TVET results and data management.

**2020**

**National Consultant**

*(Small area estimation and poverty mapping adviser for Bangladesh Bureau of Statistics) World Food Programme (WFP).*

*Key tasks included:* provide technical guidance and support in the design and implementation of appropriate statistical analysis techniques for SAE and poverty mapping keeping relevance with the sampling methods, sample size and survey tools for a full integration of the findings from the primary survey in the final MICS report and data.

**2019**

**Advisor**

*Post Enumeration Survey (PES) of APSC 2020 of DPE. BANBEIS*

*Key tasks included:* Oversee the designing of field visits, implementation plan, sampling methodology, sample frame, size, allocation, setting up questionnaire, analysis plan and writing of the report of the PES of Annual Primary School Census conducted by Department of Primary Education, Bangladesh and give recommendation on improvement of the quality of education.

**2019**

**Advisor**

*Bangladesh Education Statistics(BES) Annual School Census, BANBEIS.*

*Key tasks included:* Oversee the designing of field visits, setting up questionnaire and analysis plan for generation of the education Statistics for Secondary Schools of Bangladesh and give recommendation on improvement of the quality of education.

**2019**

**Individual Consultant**

*Feasibility Study on the project entitled "Building new residential hostels in existing*

*Key tasks included:* Oversee the designing of field visits, implementation plan, sampling methodology, sample frame, size, and allocation, analysis plan and writing the report of the Feasibility Study on the project entitled "Building new

*high schools and establishing new residential schools in three hill districts”, BANBEIS.*

**2019**

**Individual Consultant**

*Review of current system of data generation, aggregation, and use of quality statistical data for decision making purposes for the TVET/skills development sector related to HCDP21*

*ILO Dhaka Office*

residential hostels in existing high schools and establishing new residential schools in three hill districts”.

Review the existing TVET/skills training related information and data collection/generation/ management system of TMED, DTE, BANBEIS, BTEB, BMET and BBS; assess the data and information needed by these organizations to function effectively and efficiently; identify the gaps in the availability of quality data and information in a timely manner; and recommend the design of a system (central or uniform) that would potentially drive the data gathering, compilation and retrieval process in these organizations to fill up the data and information gaps.

**2018**

**National Consultant (Individual)**

*Strengthening Data Capacity for Monitoring SDG4 Implementation as the 2nd Component of CapED Programme in Bangladesh Bangladesh Bureau of Educational Information and Statistics (BANBEIS)*

Conduct data needs and gaps assessment by using UNESCO tool with NTT and NDG, define Data needs assessment, Identification of relevant data sources and Mapping data gaps in regard of SDG4. Conduct data quality assessments of all sources of data by using DQAF developed by UNESCO to monitor SDG4, development of National Strategy for Developing Education Statistics and Action plan.

**2019**

**Census Preparation Advisor for Bangladesh Population and Housing Census 2021**

*UNFPA Dhaka Office.*

*Key tasks included:* To plan and discuss prospective scope and methodologies for Bangladesh Population and Housing Census 2021. Also to liaison with the Development partner agencies for mobilizing resource and technical support for the Bangladesh Bureau of Statistics for the census.

**2017**

**Consultant**

*Developing Master plan for a Multi-modal Census, Census 2021, Bangladesh Bureau of Statistics and UNFPA.*

*Key tasks included:* To review the strength and weaknesses of Bangladesh national statistics office for conducting the 2021 census, and take appropriate statistical measure to prepare a detail methodology for the census. Possibility of use of a multimodal approach including mixture of paper-based interview, e-census, CAPI and other methods is evaluated. A master plan is prepared with recommendations.

**2015-17**

**International Consultant (Individual)**  
*Implementation of Global Strategy for Improvement in Agriculture and Rural Statistics of Afghanistan.*

*Key tasks included:* Preparation of Road Map and In Depth Capacity Assessment (IdCA) for Strategic Plan for Agriculture and Rural Statistics (SPARS) for Afghanistan. The SPARS and IdCA intend to review all the major statistical activities carried out by Gov of Afghanistan and their

*Food and Agricultural Organization of the United Nations*

methodologies, data users' needs and gaps, data duplication and resources availability. The review brought to notice the strengths and weakness in National Statistical System.

**2015-17**

**International Consultant (Individual)**  
*Implementation of Global Strategy for Improvement in Agriculture and Rural Statistics of Vietnam.*

*Food and Agricultural Organization of the United Nations*

*Key tasks included:* Preparation of Road Map and In Depth Capacity Assessment (IdCA) for Strategic Plan for Agriculture and Rural Statistics (SPARS) for Vietnam. The SPARS and IdCA intend to review all the major statistical activities carried out by Gov of Vietnam and their methodologies, data users' needs and gaps, data duplication and resources availability. The review brought to notice the strengths and weakness in National Statistical System.

**2015**

**Individual Consultant  
(Team Leader)**

*Monograph on Elderly Population in Bangladesh: Current Features and Future Perspectives.*

*Bangladesh Bureau of Statistics and UNFPA.*

*Key tasks included:* Writing a monograph on elderly scenario and its future perspective in Bangladesh using Population and Housing Census-2011 data.

**2015**

**M&E Consultant for Population Study (Team Leader)**

*Study of Review and Revise Age-Related Projections of 0-14 year olds in Bangladesh 2013-2023,*

*Asian Development Bank.*

*Key tasks included:* To review, revise and formalize the methodologies for detailed single year projection of upazila level 0-14 population in Bangladesh in 2013-2023.

**2015**

**Individual Consultant  
(Team Leader)**

*Knowledge, Attitude and Practice regarding ICT by the Rural Women of Bangladesh,*

*Jatiyo Mohila Sangstha, Government of Bangladesh.*

*Key tasks included:* Jatiyo Mohila Sangstha (JMS) is currently running the project known as Tottho Apa: Empowering Women Through ICT Towards Digital Bangladesh. This study surveyed among rural women for the comprehensive understanding regarding the knowledge, attitude and practice of ICT among the rural women of Bangladesh both in beneficiary and non-beneficiary groups.

**2006-11, 2013-2015**

**Consultant  
(Team Leader)**

*EPI vaccination coverage survey, Unicef-GOB.*

*Key tasks included:* Design questionnaire and the survey implementation plan including sampling methodology, sample frame, size, and allocation for assessment of the routine EPI vaccination coverage among 12-23 months old

(Independent survey conducted every year)

children and women. Monitor field data collection and analysis and prepare report on findings.

**2014**

**Sampling Implementation Advisor  
For BDHS**  
NIPORT.,

*Key tasks included:* Study the BDHS sampling methodology, suggest alignment of the available sampling frame in Bangladesh to the methodology and document the methodology.

**2014**

**National Consultant (Individual)**

*Preparation of project documents of the Agricultural Marketing Information System (AMIS) project of Bill and Melinda Gates Foundation and Food and Agricultural Organization of the United Nations*

*Key tasks included:* Preparing all relevant project documents including project scopes, objectives, detailed work plan, financial planning and also facilitating GOB approval of the Agricultural Marketing Information System (AMIS) project of Bill and Melinda Gates Foundation and Food and Agricultural Organization of the United Nations.

**2014**

**National Consultant (Individual)**

*In Depth Capacity Assessment (IdCA), Implementation of Global Strategy for Improvement in Agriculture and Rural Statistics.  
Food and Agricultural Organization of the United Nations*

*Key tasks included:* The IdCA reviewed all the major statistical activities carried out by BBS and the line departments, their methodologies, data users needs and gaps, data duplication, resources availability in different agencies. The review brought to notice the strengths and weakness in NSS in producing agricultural statistics.

**2014**

**Consultant for Population Study  
(Individual Consultant, TeamLeader)**

*Study of Age-Related Projections of 0-14 year olds in Bangladesh 2013-2023,  
Asian Development Bank.*

*Key tasks included:* Designing methodologies for detailed single year projection of upazila level 0-14 population in Bangladesh in 2013-2023.

**2013**

**Individual Consultant  
(Team Leader)**

*Impact Assessment Study (IAS) of HEQEP  
project of World Bank*

*Key tasks included:* Design field visits, implementation plan, sampling methodology, sample frame, size, and allocation. Assess institutional educational needs and evaluate the progress and satisfaction of the higher education institutions in Bangladesh regarding the HEQEP.

**2012**

**Individual Consultant**

*Key tasks included:* Design field visits, implementation plan, sampling methodology, sample frame, size, and allocation for

**(Team Leader)**

*Mid-term review of Skills and Training  
Enhancement Project (STEP)  
GOB and World Bank*

assessment of the situation of the Skills and Training Enhancement Project (STEP). To assess the alignment between outputs, indicators, activities and expected impact; To identify emerging priority issues in vocational training and assess the demand of the TE with relevance and effectiveness of the ongoing DPP in addressing these issues and to make recommendations.

**2012**

**Individual Consultant**

**(Team Leader)**

*Situation Analysis of SSC (VOC) institutions  
GOB and World Bank*

*Key tasks included:* Design field visits, implementation plan, sampling methodology, sample frame, size, and allocation for assessment of the situation of the SSC (VOC) institutions in Bangladesh and give recommendation on improvement of the quality of the institutions by a pilot project under Skills and Training Enhancement Project (STEP).

**2011**

**Consultant (Team Leader)**

*Baseline Survey of the Project on Risk  
Reduction through Empowerment of Women  
(RREW)  
German Red Cross.*

*Key tasks included:* Design questionnaire and the survey implementation plan, including sampling methodology, sample frame, size, and allocation for assessment of the livelihood indicators of the rural households in the project area of Risk Reduction through Empowerment of Women (RREW) project. Monitor field data collection and analysis and prepare report on findings.

**2011**

**Consultant (Team Leader)**

*Quantitative Evaluation of Reaching Out of  
School Children (ROSC) Project of World  
Bank and Government of Bangladesh.*

*Key tasks included:* Developing survey research designs, including drafting survey instruments and applying appropriate sampling techniques, fielding of survey instruments, performing analyses of data collected to assess the ROSC experience. The specific objective of the quantitative evaluation is to determine the learning achievement of students completing Grade 5 and estimate the transition rate of students to secondary education. Assess the learning needs of the completers to enhance the transition rates, suggest changes and modification of the ROSC curriculum.

**2011**

**Consultant (Team Leader)**

*Study on Assessment of the Computer  
Education at Secondary Education levels  
(School & Madrasa).  
BANNEIS (Funded by TQI-SEP).*

*Key tasks included:* Development of survey research designs, including drafting survey instruments both qualitative and quantitative and applying appropriate sampling techniques, fielding of survey instruments, performing analyses of data collected to assess the needs and availability of Computer Education at Secondary Education levels (School & Madrasa).

**2011**

**Consultant**

*Long Questionnaire Survey,  
Census 2011, Bangladesh Bureau  
of Statistics and UNFPA.*

*Key tasks included:* To review both the short and draft long questionnaire including the variables and take appropriate statistical measure to prepare a detail methodology for sampling and estimation procedure including number of samples from each district based on stratification and to organise a workshop, training session on sampling methodologies and estimation procedure.

**2011**

**Consultant (Team Leader)**

*End Line survey of Enhancing Live and  
Livelihood (ELL) Project of Save the Children  
USA.*

*Key tasks included:* Design and conduct associate workshop, FGD, interview for collecting information related to the interventions made by Enhancing Live and Livelihood (ELL) Project launched for ultra poor population of the southern districts Barisal and Patuakhali. Evaluate training and support provided by the program on livelihood issues. Measure quantitative changes in different livelihood indicators among the program beneficiaries. Prepare End-line report on program.

**2010**

**Consultant (Team Leader)**

*Baseline Survey 2009 on Enhancing Life and  
Livelihoods (ELL) Project of Save the Children  
USA.*

*Key tasks included:* Design questionnaire and the survey implementation plan, including sampling methodology, sample frame, size, and allocation for assessment of the livelihood indicators of the rural households in the three districts of Barisal Division. Monitor field data collection and analysis and prepare report on findings.

**2010**

**Statistician**

*SME Survey under the IFC-BICF M&E  
System Implementation Project, funded by IFC-  
World Bank*

*Key tasks included:* Study design, methodology development and work plan development. Support the BICF M&E contractor implementing the task. Guide the BICF M&E contractor in preparing data tables. Report writing.

**2010**

**Consultant (Team Leader)**

*Qualitative Study on Lesson learned, challenges  
and best practices of the Jibon O Jibika (JOJ)  
Project of Save the Children USA.*

*Key tasks included:* Design and conduct associate workshop, FGD, interview for collecting information related to three program component of the project: food availability, health and nutrition and resilience to shocks. Conduct feedback and dissemination workshop, Prepare report on lessons learned focusing upon the impact of all three program sectors' interventions individually.

**2009**

**Consultant**

*Key tasks included:* Designing evaluation tool and questionnaire to assess progress as well as obstacles on the basis of the status of implementation of activities in the population

*Mid-term review of 7<sup>th</sup> county program of UNFPA*

component of the 7th country program; To provide a Situation Report including the assessment of the alignment between outputs, indicators, activities and expected impact; To identify emerging priority population issues and assess the relevance and effectiveness of the ongoing CP in addressing these issues and to make recommendations for the next CP.

**2006**

**Consultant**

*Adolescent Reproductive Health-BCCP, Wave II, BCCP.*

*Key tasks included:* To translate and revise pre-assigned questionnaire; To design the survey implementation phase, including sampling methodology, sample frame, size, and allocation. Supervised and monitored interviewers and the data collection process. To make recommendations on the use of various statistical techniques and work closely with key health experts to analyse data and assess weaknesses in analysis.

**2005**

**Consultant**

*EPI vaccination coverage survey, Unicef-GOB,*

*Key tasks included:* To design questionnaire and the survey implementation plan including sampling methodology, sample frame, size, and allocation for assessment of the routine EPI vaccination coverage among 12-23 months old children and women. Administered field data collection.

**2004**

**Consultant**

*Meena Communications Initiatives for child education in rural and urban areas of Bangladesh.*

*Key tasks included:* To design and develop the survey for Bangladesh. Revised the survey after pilot interviews; To devise an appropriate sampling methodology, the optimal sample size using standard statistical sampling techniques; To ensure sampling methodology was applied appropriately and undertake field investigations to address sampling and survey-related issues; To manage the data compilation process and develop, supervise and monitor an overall approach to statistical analysis.

**2003**

**Consultant**

*Adolescent Reproductive Health-BCCP.*

*Key tasks included:* To collect baseline information for the survey. And identify data sources covering knowledge, attitude and practice (KAP) of ARH in Bangladesh; to assist in survey translation and design modification to address national and regional-specific issues; On the basis of preliminary research/baseline information, to determine sample size and allocation, manage survey implementation, develop a work plan for statistical analysis ensuring quality.

***RECENT HIGH-LEVEL  
COMMITTEES AND TASK  
FORCES (2022–PRESENT)***

|                                 |                                                                                                                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>April 2025 – Present</b>     | Member of the 10 members ‘University of Dhaka Ranking Enhancement Plan Committee’.                                                                                                                                                                         |
| <b>April 2025 – Present</b>     | Convenor of the 5 members expert committee for designing and documenting a ‘NIPORT Research Policy’ for improved efficiencies of research/studies conducted by the NIPORT, Ministry of Health, , Government of Bangladesh.                                 |
| <b>April 2025 – Present</b>     | Convenor of the 5 members expert committee to evaluate research/studies conducted by the NIPORT, Ministry of Health, , Government of Bangladesh.                                                                                                           |
| <b>Feb 2025 – December 2025</b> | Member of the 7 members ‘Taskforce on Strengthening BBS and National Statistical System’ formed by the Planning Ministry of Bangladesh.                                                                                                                    |
| <b>Feb 2024 – December 2025</b> | Convenor of the 7 members technical committee for planning and designing strategic documentation of 'Unified Admission System of public universities' proposal under 'National Testing Authority', University Grants Commission, Government of Bangladesh. |
| <b>Nov 2022 – Present</b>       | Member of the 7 members working committee for designing and documenting short and long term strategic wholistic plan for the University of Dhaka titled ‘Academic Development Plan’.                                                                       |

***NATIONAL COMMITTEES  
(Selected)***

|                                   |                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>June 2019- – November 2024</b> | Member of the Population Expert Committee, GED, Planning Commission of Bangladesh.                                           |
| <b>June 2019- – Present</b>       | Member of the Stake holder Advisory Committee (SAC), NIPORT, Dhaka, Bangladesh..                                             |
| <b>June 2019- – Present</b>       | Member of the Technical Working Group (TWG), NIPORT, Dhaka, Bangladesh..                                                     |
| <b>January 2021- Present</b>      | Member of the National Advisory Committee for Statistics (NACS), Ministry of Planning, GOB.                                  |
| <b>June 2019- – Present</b>       | Member of National Data Coordination Committee (NDCC), Statistics and Informatics Division (SID), Ministry of Planning, GOB. |
| <b>June 2019- – Present</b>       | Member of National Technical Committee of Bangladesh Population and Housing Census 2021.                                     |
| <b>June 2019- – Present</b>       | Member of National Technical Committee to review the gap of Child Mortality indicators between BDHS and SVRS                 |
| <b>June 2017- – Present</b>       | Member of Expert committee, SDG4 Strategic Framework and Action Plan, CAMPE, Bangladesh.                                     |

|                                |                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>June 2017- – Present</b>    | Member of Sample review Committee (SRC) for BMSS, BDHS, and other surveys, NIPORT, Bangladesh.                                                  |
| <b>June 2016</b>               | Member of the Technical Expert Committee to Review of preliminary findings of Bangladesh Maternal Mortality and Health Care Survey (BMMS) 2016  |
| <b>June 2016</b>               | Member of the Sub Committee to Review of preliminary findings of Bangladesh Maternal Mortality and Health Care Survey (BMMS) 2016               |
| <b>June 2015- – July 2016</b>  | Member of expert committee, Raising the Quality of Public Examinations in Bangladesh, BEDU, Bangladesh.                                         |
| <b>June 2015- – July 2016</b>  | Member of expert committee, Ethics and Values in Education, CAMPE, Bangladesh.                                                                  |
| <b>June 2017- – Present</b>    | Member of expert committee and consultant, the Master Plan of Population and Housing Census 2021.                                               |
| <b>June 2017- – Present</b>    | Member of expert committee, Compendium of Bangladesh Environmental Statistics 2017.                                                             |
| <b>June 2017- – Present</b>    | Member of expert committee, Bangladesh Environmental Statistics Framework (BESF) 2016-2030.                                                     |
| <b>June 2016- – Present</b>    | Convener, expert group for designing and conducting the socioeconomic survey on Bangladesh forest inventory                                     |
| <b>June 2007- – April 2011</b> | Member of the technical experts committee for strengthening the capacity of Bangladesh Bureau of Statistics (BBS) towards National Census 2011. |
| <b>June 2005- June 2006</b>    | Member of the technical experts committee for the agricultural sample census, conducted by the BBS.                                             |
| <b>June 2002- January 2005</b> | Member of the technical experts committee for the National Census 2001, conducted by the Bangladesh Bureau of Statistics (BBS).                 |
| <b>June 2002- January 2005</b> | Member of the technical experts committee for the census 2001 survey, conducted by the Bangladesh Bureau of Statistics (BBS).                   |

***EXPERIENCES AS SAMPLING  
EXPERT***

**Sampling Design Expert/Advisor**

*Key tasks included:* Design sampling methodology, define sampling frame, determine sample size, identify stratum and allocation of sample size, calculate sampling weight et.

- |      |                                                                                                                                                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 | <ul style="list-style-type: none"><li>▪ Time Use Survey under Gender Statistics 2026, Bangladesh Bureau of Statistics (BBS)</li><li>▪ Environmental Protection Expenditure Resource and Waste Management Survey 2026, Bangladesh Bureau of Statistics (BBS).</li></ul> |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- All surveys under the Statistical Capacity Enhancement and Modernization Project (SCEMP), , Bangladesh Bureau of Statistics (BBS)
- Tourism Satellite Accounts Survey 2026, Bangladesh Bureau of Statistics (BBS)
- SMI Survey 2026, Bangladesh Bureau of Statistics (BBS)
- 2025 ▪ Household Income Expenditure Survey (HIES) 2026, Bangladesh Bureau of Statistics (BBS)
- Survey on Waste and Loss in Agricultural Production, 2026, Bangladesh Bureau of Statistics (BBS)
- 2024 ▪ Survey on productive and sustainable agriculture, 2024, Bangladesh Bureau of Statistics (BBS)
- National Household Survey 2021: Corruption in Service Sectors, TIB.
- 2023 ▪ Literacy Assessment Survey, Bangladesh Bureau of Statistics
- Food Security Assessment Survey and FIES, Bangladesh Bureau of Statistics (BBS) and WFP.
- Multiple Indicator Cluster Survey (MICS) 2024, , Bangladesh Bureau of Statistics (BBS)and UNICEF.
- 2022 ▪ Post Enumeration Check (PEC) of Bangladesh Population and Housing Census 2022, Bangladesh Bureau of Statistics (BBS)and BIDS.
- Post Enumeration Check (PEC) of Annual Primary School Census (APSC) 2022, BANBEIS and DPE.
- Sample for Establishment-based Working Children Survey, Bangladesh Bureau of Statistics (BBS).
- National child labour survey Bangladesh (NCLS) , Bangladesh Bureau of Statistics (BBS).
- Socio economic and Demographic Survey (Long Questionnaire Survey of Bangladesh Population and Housing Census 2022, Bangladesh Bureau of Statistics (BBS) and UNFPA.
- Survey on Handicrafts Products, Bangladesh Bureau of Statistics (BBS).
- Sample Vital Registration System(SVRS) in Digital Platform 2022, Bangladesh Bureau of Statistics (BBS).
- Pilot Survey on Sex, Age and Disability Dis-aggregated Data (SADDD) for Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA), Bangladesh Bureau of Statistics (BBS).

- |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 | <ul style="list-style-type: none"><li>▪ Post Enumeration Check (PEC) of Annual Primary School Census (APSC) 2021, BANBEIS and DPE.</li><li>▪ National Household Survey 2021: Corruption in Service Sectors, TIB.</li><li>▪ Sample Vital Registration System(SVRS) in Digital Platform 2021, Bangladesh Bureau of Statistics (BBS).</li></ul>                                                                                                                                                                                                       |
| 2020 | <ul style="list-style-type: none"><li>▪ WASH Expenditure Survey of National WASH Accounts, Local Government Division (LGD), Bangladesh Bureau of Statistics (BBS).</li><li>▪ Bangladesh Disaster Related Statistics (BDRS) under ECDS Project, Bangladesh Bureau of Statistics (BBS).</li></ul>                                                                                                                                                                                                                                                    |
| 2019 | <ul style="list-style-type: none"><li>▪ Gender Based Violence survey pre-test, Bangladesh Bureau of Statistics (BBS).</li><li>▪ Urban Socioeconomic Assessment Survey (USAS), Bangladesh Bureau of Statistics (BBS).</li><li>▪ Sample Survey for Verbal autopsy of CRVS, Bangladesh Bureau of Statistics (BBS).</li><li>▪ Long Questionnaire Survey, Agricultural Census, Bangladesh Bureau of Statistics (BBS).</li><li>▪ Bangladesh Disaster Related Statistics (BDRS) 2019 under ECDS Project, Bangladesh Bureau of Statistics (BBS).</li></ul> |
| 2018 | <ul style="list-style-type: none"><li>▪ Citizen Survey and Court User Survey, Bangladesh Bureau of Statistics (BBS).</li><li>▪ Survey on Economic Establishments, Bangladesh Bureau of Statistics (BBS).</li></ul>                                                                                                                                                                                                                                                                                                                                 |
| 2018 | <ul style="list-style-type: none"><li>▪ NCD Risk Factor Survey, NIPSOM and WHO.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2017 | <ul style="list-style-type: none"><li>▪ Global Adult Tobacco Survey II, Bangladesh Bureau of Statistics (BBS) and WHO.</li><li>▪ VGD panel survey, Bangladesh Bureau of Statistics (BBS)</li><li>▪ National Household Survey 2017: Corruption in Service Sectors, TIB.</li><li>▪ Survey on private stock of food grain, Bangladesh Bureau of Statistics (BBS).</li></ul>                                                                                                                                                                           |
| 2016 | <ul style="list-style-type: none"><li>▪ ICCHL Survey 2013-16, Bangladesh Bureau of Statistics (BBS).</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                     |

- 2015
- National Child Well-being Survey in Urban Areas of Bangladesh, 2015, Bangladesh Bureau of Statistics (BBS) and UNICEF.
  - Bangladesh Labor Force Survey, Bangladesh Bureau of Statistics (BBS).
  - Revising Crop Cutting Experiment for Production Estimation Survey, Bangladesh Bureau of Statistics (BBS).
- 2014
- Survey on Violence Against Women in Bangladesh, 2014, Bangladesh Bureau of Statistics (BBS).
  - Production Estimation Survey of Six Major Crops, Bangladesh Bureau of Statistics (BBS).
- 2013
- Bangladesh Demographic and Health Survey 2016, NIPORT,
  - Rural Credit Survey 2012-14, Bangladesh Bureau of Statistics (BBS).
- 2013
- Survey on Foreign Remittance Usage in Bangladesh, Bangladesh Bureau of Statistics (BBS).
- 2012
- Labour Force Survey Bangladesh, Bangladesh Bureau of Statistics (BBS) and UNESCAP.
  - Integrated Multi-Purpose Sampling (IMPS), Bangladesh Bureau of Statistics (BBS), Bangladesh Bureau of Statistics and UNESCAP.
  - Multiple Indicator Cluster Survey (MICS), Bangladesh Bureau of Statistics (BBS) and UNICEF.
- 2011
- Agricultural Production Estimation Survey for Minor Crops Papaya, Tomato, Bringle and Water-melon, 2011, Bangladesh Bureau of Statistics (BBS)
  - Long Questionnaire Survey, Census 2011, Bangladesh Bureau of Statistics (BBS) and UNFPA.

***ORGANIZING TRAINING COURSES (Selected)***

- 2002 - 2008
- Designed and coordinated a month long training program on “SPSS and Applied Statistics” for the research students and professionals working in research organization. The course is repeated **every year** in the month of June. Approximate number of participants per course is **100**.
- May 2008
- Designed and coordinated a month long training program on “Research Methodology” for the officers of the Ministry of Food, Government of Bangladesh.

|                     |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| September 2014      | Designed and coordinated a 6 days long training program on “Advance Sampling Methods” hosted by East West University, Bangladesh for SAARC country participants.                                                                                                                                                                                                                             |
| May 2015            | Designed and coordinated 15 days long training program on “Research Methodology” for the Faculty Members of East West University, Bangladesh.                                                                                                                                                                                                                                                |
| October 2018        | Designed and coordinated 15 days long training program on “Research Methodology” for the Faculty Members of Independent University of Bangladesh, Bangladesh.                                                                                                                                                                                                                                |
| Jan 2010 - Dec 2010 | Designed and coordinated a month long training program on “Research Methodology with the Application of SPSS” for Government officials under the project of “Integration of population and Gender into National and Sectoral Planning (IPGNSP)” of Planning Commission with financial support from UNFPA. The course was repeated for six batches each consisting of 20 government officers. |
| Dec 2021            | Designed and coordinated a 10 days long training program on “Advance Sampling Methods” for BBS officials under the project of “NSDS Implementation program” of BBS with support from World Bank.                                                                                                                                                                                             |
| Feb 2022            | Designed and coordinated a 10 days long training program on “Estimation from Sample Data: Theory and Methods” for BBS officials under the project of “NSDS Implementation program” of BBS with support from World Bank.                                                                                                                                                                      |
| March 2022          | Designed and coordinated a 10 days long training program on “Time Series Analysis” for BBS officials under the project of “NSDS Implementation program” of BBS with support from World Bank.                                                                                                                                                                                                 |
| October 2023        | Designed and coordinated a 3 days long training program on “Statistical Software Stata” for the Faculty Members of Independent University of Bangladesh, Bangladesh.                                                                                                                                                                                                                         |

***MEMBERSHIP OF PROFESSIONAL AND VOLUNTEER ORGANIZATIONS***

1. *Life member*, Bangladesh Statistical Association (BSA), 1994-Present.
2. *Life member* Bangladesh Population Association (BPA), 1994-Present.
3. *Life member* Bangladesh Association of the Advancement of Sciences (BAAS), 1994-Present.
4. *Life member*, Dhaka University Statistics Department Alumni Association (DUSDAA), 2010-Present.
5. *Member*, Education Watch, Bangladesh, 2017-Present.
6. *Research Advisor*, CAMPE, Bangladesh, 2017-Present.
7. *President of the Executive Committee*, Bangladesh Statistical Association, 2024- Present.
8. *General Secretary of the Trustee Board*, Dhaka University Statistics Department Alumni Association (DUSDAA), 2022-Present.
9. *Founding Member of the Executive Committee*, Dhaka University Statistics Department Alumni Association (DUSDAA), 2010-2013.
10. *Treasurer of the Executive Committee*, Dhaka University Statistics Department Alumni Association (DUSDAA), 2014-2016.
11. *Chairman of the Executive Committee*, Dhaka University Statistics Department Alumni Association (DUSDAA), 2016-2022.
12. *Vice-President of the Executive Committee*, Bangladesh Statistical Association, 2017-19.
13. *Member of the Executive Committee*, Bangladesh Statistical Association, 2005-09.

### ***VOLUNTEER ACTIVITIES***

1. Conveynor of the the 18th National Statistical Conference 2024, Bangladesh Statistical Association (BSA), Dhaka, March 8th to 9th, 2024, *Editor of the Program Booklet, Abstract Booklet and Souvenir*.
2. Member of the core convening committee of the ‘The First International Conference on Theory and Applications of Statistics’, December 2010, Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka. *Editor of the Program Booklet, Abstract Booklet and Souvenir*.
3. Co-Chair of the convening committee of the ‘International Conference on Applied Statistics (ICAS) 2014, December 27-29, 2014 Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka. *Editor of the Program Booklet, Abstract Booklet and Souvenir*.
4. Member of the core convening committee of the Second International Conference on Theory and Applications of Statistics 2015, 27-29 December 2015, Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka. *Acted as the Editor of the Program Booklet, Abstract Booklet and Souvenir*.
5. Co-Chair of the convening committee of the ‘International Conference on Applied Statistics (ICAS) II 2019, December 27-29, 2019, Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka.
6. Member of the core convening committee of the International Workshop Sponsored by ISI and World Bank on “Sampling Methodologies for Monitoring Sustainable

Development Goal Indicators”, December 17, 2019 - December 19, 2019, Institute of Statistical Research and Training, University of Dhaka.

### ***SCHOLARSHIPS AND AWARDS***

1. January 2008, Received Commonwealth Fellowship Award as Visiting Fellow at School of Mathematics & Statistics, University of Newcastle, UK.(duration six months)
2. January 1996, Received Deakin University Post Graduate Research Scholarship for conducting Ph.D. research (duration 3 years).
3. Sep 1989, Received the Q.M. Husain award for being placed in the First Class First Position in the M.Sc. Examination, Department of Statistics, University of Dhaka.
4. Sep 1988, Received the Q.M. Husain award for being placed in the First Class Second Position in the B.Sc. (Honours) Examination, Department of Statistics, University of Dhaka.

### ***PERSONAL INFORMATION***

***Present Address***

Flat #303, House Number 48 (Concord Manor),  
Road Number 15A, Dhanmondi Residential  
Area, Dhaka 1209, Bangladesh.

***Telephone***

+880 2 9661900-72, Ext 8289 (Office) ,  
+880 1747816856 (Cell)

***Fax***

+880 2 8615583

***E-Mail***

[shahadat@isrt.ac.bd](mailto:shahadat@isrt.ac.bd)

***Web***

<http://www.isrt.ac.bd/faculty/shahadat>

***Date Of Birth***

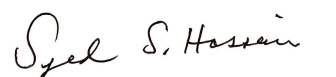
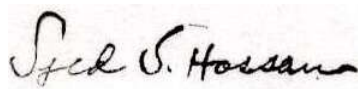
July 1, 1964.

***Sex***

Male.

***Nationality***

Bangladeshi



(Syed Shahadat Hossain)