

Curriculum Vitae of Dr. Narayan Chandra Sinha

A. Biographical Details :

- * Name : **Dr. NARAYAN CHANDRA SINHA.**
- * Father`s name : Late Harimohan Sinha.
- * Mother`s name : Parul Bala Sinha.
- * Present address/Mailing Address : **Dhaka School of Economics**
Bangladesh Economic Association Bhaban
4/C Eskaton Garden Road, Dhaka-1000, Bangladesh.
- * Permanent address : Vill: Talagram, P.O. : Barura Bazar, UZ : Barura
Dist. : Comilla, Bangladesh.
- * Date of birth : 01-01-1956
- * Marital status : Married
- * Nationality : Bangladeshi by birth.
- * National ID Card No. : 1920902088326
- * e-mail : ncsinha2002@yahoo.com
- * Phone no. : 88-02-9359628/9359629 (office)
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B. Educational Background :

- * **Doctor of Philosophy (Ph. D.), 1998**
Jahangirnagar University, Savar, Dhaka, Bangladesh
Department : Statistics
Subjects : Econometrics, Forecasting Model and Stochastic Process

Supervisors of Ph. D. Programme :

1. Professor Kazi Saleh Ahmed

Department of Statistics
Jahangirnagar University, Savar, Dhaka, Bangladesh.
e-mail : ksahmed@bangla.net
Mobile : 88- 01711615879

2. Professor M. Ataharul Islam

Department of Statistics
University of Dhaka, Dhaka-1000, Bangladesh.
e-mail : mataharul@yahoo.com
Mobile : 88- 01715127189

*** Master of Philosophy (M. Phill.), 1987**

University of Chittagong, Chittagong, Bangladesh
Department : Statistics
Subjects : Econometrics, Time Series Analysis, Statistical Inference,
Multivariate Analysis, Advance Probability (Stochastic Process)

*** Master of Science (M. Sc.), 1982**

University of Chittagong, Chittagong, Bangladesh
Department : Statistics
Subjects : Econometrics, Time Series Analysis, Statistical Inference,
Multivariate Analysis, Multivariate Probability Distribution,
Sampling Distribution, Stochastic Process, Sample Survey,
Experimental Design etc.

*** Bachelor of Science (B. Sc.) (Honours), 1981**

University of Chittagong, Chittagong, Bangladesh
Department : Statistics
Subjects : Fundamental Statistics, Statistical Inference, Probability Distribution,
Mathematics, Micro; Macro and Development Economics, Econometrics
Multivariate Probability Distribution, Sampling Distribution,
Stochastic Process, Sample Survey, Experimental Design etc.

*** Higher Secondary Certificate (HSC), 1977**

Name of Institution: Barura Government College, Barura, Comilla, Bangladesh
Group : Science

*** Secondary School Certificate (SSC), 1972**

Name of Institution: Talagram High School, Barura, Comilla, Bangladesh
Group : Science

C. Dissertation :

- (i) Completed a thesis entitled “**Probability Models in Forecasting Rainfall with Application to Agriculture**” for the degree of Doctor of Philosophy (**Ph. D.**) in Statistics.
- (ii) Presented a thesis entitled “**Impact of Rainfall on Agriculture; An Application of Probability Models**” in partial fulfillment of the degree of Master of Philosophy (**M.Phil.**) in Statistics.

D. Teaching Experience:

Service Period	Name of Position	Teaching Areas	Name of Institute
16 th February, 2015 to date	Associate Professor of Statistics	Quantitative Methods in Economics, Statistics and Econometrics	Dhaka School of Economics (Constituent Institution of the University of Dhaka)
15 th February, 2012 to 15 th February, 2015	Adjunct Faculty		

E. Previous Work History:

Service Period	Name of Position and Organization
Date of Retirement	01-01-2015
10 th March, 2011 to 31 st December, 2014	Financial Analyst Monitoring Cell, Finance Division, Ministry of Finance, Bangladesh
12 th February, 1990 to 9 th March, 2011	Research Officer Monitoring Cell, Finance Division, Ministry of Finance, Bangladesh

Job Responsibilities were :

To formulate and finalize subsidy and grant policies for state owned enterprises (SOEs) of government.

To finalize the cash subsidy policies and budget against different export items from the country.

To finalize and publish the budget of state owned enterprises (SOEs) for public sector corporations/organizations.

To evaluate and finalize the budget of public sector financial institutions like banks and insurance companies etc.

To monitor and evaluate the financial status of state owned enterprises (SOEs).

To formulate fiscal and monetary policies of government relating to all state owned enterprises (SOEs).

To evaluate different investment proposals of state owned enterprises (SOEs).

To formulate the price policies for different products of SOEs.

To evaluate the assets and liabilities of state owned enterprises (SOEs) for privatization.

To provide expertise opinion on wage commission policies.

To provide expertise opinion on different financial issues for state owned enterprises (SOEs) and financial institutions.

To comment on capital restructure, working capital determination, pricing of goods & services of SOEs.

To comment on capital restructure, working capital determination, pricing of goods & services of SOEs.

To comment on financial reports and audit reports on SOEs for submission to ECNEC.

To assist national budget formulation relating to state owned enterprises (SOEs).

To formulate policies for the collection of DSL and dividend for state owned enterprises (SOEs).

To provide appropriate sources of financing, capital restructuring, loan negotiation etc. for state owned enterprises (SOEs).

To advice and assist public enterprises for their internal MIS and external reporting, and introduction to uniform accounting system.

F. Publications :

- (i) N. C. Sinha, M. A. Islam and K. S. Ahamed : “Logistic Regression Models for Higher Order Transition Probabilities of Markov Chain for Analyzing the Occurrences of Daily Rainfall Data”, *Journal of Modern Applied Statistical Methods*; USA, Vol.10, No. 1, pp. 337-348, **2011**.
- (ii) N. C. Sinha, M. A. Islam and K. S. Ahamed : “Order Determination for the Transition Probabilities Markov Chain Based on Logistic Regression Model”, *Journal of Applied Statistical Science*; USA, Vol. 17 No. 4, pp. 519-540, **2010**.

- (iii) N. C. Sinha, M. Ataharul Islam and Kazi Saleh Ahmed : “Chain Dependence and Stationarity Test for Transition Probabilities of Markov Chain under Logistic Regression Model”, *Journal of the Korean Statistical Society, Korea*, Vol. 35 No. 4, pp. 355-376, **2006**.
- (iv) J. C. Paul, S. Chowdhury and N. C. Sinha : “House Rent Behaviour in Bangladesh - A Case Study with Chittagong City”, *Chittagong University Studies*, Part II : Science, Vol. 21(1), pp. 1-8, **1997**.
- (v) N. C. Sinha, M. A. Jalil and J. C. Paul : “Income Determinants of Local Government in Bangladesh : A Multivariate Analysis”, *The Bangladesh Journal of Scientific Research*, Vol. 14, No. 2, pp. 151-160, December, **1996**.
- (vi) S. Chowdhury, J. C. Paul and N. C. Sinha : “Socio-Economic Determinants of Expenditure on Smoking”, *Chittagong University Studies*, Part II : Science, Vol. 19(2), pp. 163-172, **1995**.
- (vii) N. C. Sinha and S. M. S. Islam : “Impact of the patterns of Rainfall on Aus and Aman Crops : An Application of Markov Model”, *Journal of Statistical Studies*, Vol. 14, pp. 77-85, **1994**.
- (viii) S. M. S. Islam and N. C. Sinha : “Markov Chain Analysis of Rainfall in Bangladesh”, *Journal of Statistical Studies*, Vol. 13, pp. 45-53, **1993**.
- (ix) N. C. Sinha and J. C. Paul : “Analysis of Daily Rainfall Occurrences for Sylhet Station – An Application of Markov Chain Model”, *The Bangladesh Journal of Scientific Research*, Vol. 10(1), pp. 95-102, **1992**.
- (x) Current Research: working on “**Estimate of Household Wealth Index : Methods and Comparisons**” using BBS data – Litaracy Assessment Survey-2008, Bangladesh.

G. Research Reports :

- (i) Prepared ‘*Climate Fiscal Framework, 2014*’ for Bangladesh in Finance Division, Ministry of Finance under supporting the Poverty Environment and Climate Mainstreaming (PECM) Project of the General Economics Division of the Planning Commission. The PECM project is being financed by **United Nations Development Programme (UNDP)**, Bangladesh and the **UNDP-UNEP Poverty-Environment Initiative, 2014**.

- (ii) Prepared the chapters ‘**Expenditure Review**’ and ‘**Assessment of Climate Change Public Finance Management**’ for the study “*Bangladesh Climate Public Expenditure and Institutional Review (CPEIR)*” under supporting **United Nations Development Programme (UNDP)** and General Economics Division, Planning Commission, **Ministry of Planning, Government of Bangladesh, 2012.**
- (iii) Prepared the chapter “**Effect of Household Wealth Status on Literacy Rate**” included in the report “*Litaracy Assessment Survey-2008, Bangladesh*”; organized by United Nations Educational, Scientific and Cultural Organization (**UNESCO**), Dhaka, Bangladesh and Bangladesh Bureau of Statistics (**BBS**), Ministry of Planning, Government of Bangladesh, **2008.**
- (iv) “*Financing Primary and Secondary Education in Bangladesh*”, Education Watch 2006, published by Campaign for Popular Education (**CAMPE**), Bangladesh, **2007** (Co-author).
- (v) Prepared the chapter “*Impact of Rural Electrification on Socio-Economic Factors : Modeling Approach*” included in the study report on Socio-Economic Monitoring and Impact Evaluation of Rural Electrification and Renewable Energy Program in Bangladesh (IDA Credit No. 3679 BD)” for Rural Electrification Board (REB), jointly prepared by Bangladesh Unnayan Parishad (BUP) and BETS Consulting Services Ltd. Gulshan-1, Dhaka, Bangladesh, **December 2005.**
- (vi) Research report entitled “*Break-Even Analysis for Identifying No Loss-No Profit Position of Bangladesh Jute Mills Corporation’s Enterprises*”, Organized by the Ministry of Jute, Bangladesh, **December 2002.**
- (vii) Assisted in preparing a report on “*Study on Tariff and Non-Tariff Barriers Affecting Domestic Production and Export of Agro-based Products*”, Agro-based Industries and Technology Development Project (ATDP), IFDC, Dhaka, Bangladesh, **June 2000.**

H. Paper Presentation at Seminars :

1. Narayan Chandra Sinha and Kazi Saleh Ahmed : “*Comparative Approaches to Estimate Household Wealth Index*”, presented in the seminar on “Economic Statistics : Collection and Dissemination”, organized by Bangladesh Statistical Association (BSA), May 22, 2009, Dhaka, Bangladesh.
2. Kazi Saleh Ahmed and Narayan Chandra Sinha : “*School Students Expenditure and its Differentials in Bangladesh*”, presented in the seminar on “Economic Statistics : Collection and Dissemination”, organized by Bangladesh Statistical Association (BSA), May 22, 2009, Dhaka, Bangladesh.

I. Professional Activities :

Reviewer of “*Dhaka University Journal of Science*” University of Dhaka, Bangladesh.

J. Membership in Professional Society :

Life Member, *Bangladesh Statistical Association (BSA)*, Bangladesh.

K. Area of Specialization :

Developing different mathematical models such as Econometrics, Probabilistic, Agro-Economic, Socio-Economic etc.

To Analyze the Business and Financial data, Socio-Economic data, Environment and Climate related data, Agricultural data, Cummunity Health Information etc.

L. Computer Skills :

Word Processing : Word Perfect, MS Word.

Program Language : Fortran, SPSS, Eviews4, R, S+ etc.

Data Management : MS Access, SPSS and MS Excel

M. Proficiency of Language:

Language	Speaking	Reading	Writing
Bengali	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

N. Training :

1. I have successfully completed a four-week training program on “*Advance Decision Support Systems in Finance*” organized by Commonwealth Secretariat in the **Institute for Financial Management and Research (IFMR)**, Chennai, **India**, 2003.
2. I have taken-up a two-week training program on “*Analysis of Financial Statements*” jointly organized by the **Government of Bangladesh** and **UNDP**, Bangladesh, 1991.

O. Study Tour :

1. Under the improvement program of Rajdhani Unnayan Kartipokha (RAJUK), Dhaka activities; I visited the Bangkok Town Planning Authority, **Thailand** and the Kulalampur Town Planning Authority, **Malaysia, 2007**.
2. Under the improvement program of Chittagong Port Authority (CPA), Bangladesh activities, I visited different Sea Ports of **Thailand, Sri-Lanka, Phillipines and Shanghai; China, 2004**.

P. Name of the Referees:

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(Dr. Narayan Chandra Sinha)