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DECLARATION

I **Monalisa Das** bearing Registration Number PhD/2007/12, Dated 27th September 2012, hereby declare that the subject matter of the thesis entitled *“Measurement of Technical Efficiency and Demand for Higher Education Institutions: A Study of General Degree Colleges in Barak Valley”* is the record of work done by me and that the contents of this thesis did not form the basis for award of any degree to me or anybody else to the best of my knowledge. The thesis has not been submitted in any other University/ Institute.

Date: /06/2016

Place: Silchar

Candidate’s Signature

PREFECE

Efficient management of resources in every sector is an essential issue with respect to scarce resources from the perspective of management. Further from the viewpoint of growing public expenditure on different sectors in developing countries priority should be given not only to necessity but also on efficiency as well. Recently, different organisations and institutions use various methods to measure their efficiency and then search ways to improve them. This is not only applied to profit-making organizations, but also in non-profit making organizations and the public sectors, including educational institutions. Efficiency of Higher Educational Institutions (HEIs) is one of the subjects of growing attention in recent years. The issue of efficiency in higher education in this Barak Valley or elsewhere has remained vague and problematic due to huge heterogeneity within the system itself. However, despite the importance of efficiency measurement in education institutions, there are a few studies in India that have addressed the matter for developing region like Barak Valley. Further low success rate with growing enrollment is generally considered as the hallmark of inefficiency of any education institution, and it is observed for the HEIs Barak Valley as well. Thus the study contributes to the literature on measurement of technical efficiency and demand for HEIs in Barak Valley by applying two alternative methods of measuring efficiency and then further compares the efficiency of the HEIs with demand which is not considered earlier in any previous literatures.

The choice of the topic and study area is based on two considerations. Firstly, there is a growing academic discourse on the significance of efficiency measurement of social sectors. Secondly, the higher education institutions of Barak valley are not analysed from economic point of views with wide consideration of different sides.

A commendable deal of help, cooperation, intellectual and emotional sustenance from within and outside of the Department of Economics, Assam University Silchar has contributed towards the completion of this work. I suspect if words are sufficient to express my gratitude to all these personalities who have generously taken time and trouble for my research work. Here, I would like to convey my gratitude to those individuals without whose contribution completion of this work would ever have been possible. First and foremost, I acknowledge my deep sense of gratitude to my supervisor Dr. Subhrabaran Das, Associate Professor, Department of Economics, Tripura University (Former Assistant Professor, Department of Economics, Assam University)

for his commendable guidance, constant attention, and splendid supervision; I have received at every stage of planning, constitution and completion of this work. I also take it as privilege to place on my profound sense of indebtedness to my co-supervisor Prof. Alok Sen, Professor, Department of Economics, Assam University for his encouragement, stimulating guidance and suggestions without which the work would not have been possible.

I would also like to also extend a special thanks to Prof. Subhash Ray, University of Connecticut, United States and Prof. Arpita Gosh, Department Economics, Jadavpur University comments and suggestions during after session conversation of 23rd Annual Conference of Jadavpur University which have resulted in significant improvements in the quality of the research. This work has also benefited from the precious suggestions of Prof. Ajitava Roy Choudhoury, Jadavpur University, Kolkata and Prof. Chiranjib Neogi, Indian Statistical Institute, Kolkata. I would also like express my sincere thanks to all the faculty member of Department of Economics, Assam University especially Dr. Ritwik Mazumder and Prof Sumanash Dutta for their necessary support and suggestions during the course of time.

I express my sincere thanks to Prof. Niranjan Roy, Head of the Department of Economics, Assam University, and Dr. Bibhash Deb, former Director of College Development Council (CDC), Assam University for their kindness and support during collection of data from the institutions and other relevant reports during my survey period. In this regard I am also grateful to Dr. Suprabir Dutta Roy, Controller of Examinations, Assam University (Former Principal, Janata College, Kabuganj, Cachar) for his great support in procuring the relevant data from other colleges as well. In this regard I would like to thank Debasish Kar, CDC, AUS (Former Principal, Cachar College, Silchar), Dr. Debojit Dey, S.K. Roy College, Dr. Paritosh Chandra Duta and Tapa Kar of S.S. College, Hailakandi for their kindness and support. I am also thankful to all the principals and non-teaching staffs of the general degree colleges of Barak Valley for providing required information related to their institutions.

I would also like to thank my sister Tanwi Das and my school mate Deepjyoti Deb for providing necessary support and assistance during the course. Last but not least, I must record my deep sense of gratitude to my parents. Without their motivation and support of all kind; this work would not be possible.

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Abbreviations & Acronyms

| | |
|--------|--|
| A&A | Accreditation and Assessment |
| AE | Allocative Efficiency |
| ATE | Average Teaching Experience |
| ATHE | Average Technical efficiency Score |
| AUS | Assam University, Silchar |
| CDC | College Development Council |
| CES | Constant Elasticity of Substitution |
| CES | Constant Elasticity of Substitution |
| CRS | Constant Returns to Scale |
| DEA | Data Envelopment Analysis |
| DHE | Director of Higher Education |
| DI | Dimension Index |
| DMU | Decision Making Unit |
| DPI | Director of Public Instruction |
| DRS | Decreasing Returns to Scale |
| EI | Efficiency Index |
| EPS | Expenditure Per Student |
| EUI | Efficient Unit Isoquant |
| GDP | Gross Domestic Product |
| HEI(s) | Higher Education Institution(s) |
| HRI | Human Resource Index |
| II | Infrastructure Index |
| IRS | Increasing Returns To Scale |
| KMO | Kaiser-Meyer-Olkin |
| MHRD | Ministry Of Human Resource Development |

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| NAAC | National Assessment And Accreditation Council |
| NBA | National Bureau Of Accreditation |
| NIT | National Institute of Technology |
| OECD | Organisation For Economic Co-Operation And Development |
| OLS | Ordinary Least Square |
| OPEC | Organisation Of Petroleum Exporting Countries |
| PCA | Principal Component Analysis |
| PI | Performance Index |
| PRI | Physical Resource Index |
| R&D | Research And Development |
| SE-DEA | Super Efficiency- Data Envelopment Analysis |
| SFA | Stochastic Frontier Analysis |
| TDC | Three Years Degree Course |
| TE | Technical Efficiency |
| TEI | Teachers' Educational Qualifications Index |
| TNTR | Teaching Staffs To Non-Teaching Staff Ratio |
| TQA | Teachers' Quality Index |
| TQI | Teachers' Quality Index |
| Translog | Trancedental Logarithmic |
| TSR | Teacher Student Ratio |
| UGC | University Grants Commission |
| WHR | Performance Index of Honours Graduates (Weighted Honours Course Result) |
| WPI | Weighted Performance Index |
| WPR | Performance Index Of Pass Course Graduates (Weighted Pass Course Result) |

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