AN ENQUIRY INTO THE REASONS FOR POOR HIGHER EDUCATION SYSTEM AND OUT MIGRATION OF STUDENTS FROM BIHAR

A thesis submitted for the award of Degree of

DOCTOR OF PHILOSOPHY in ECONOMICS

By SMITA ANAND

Under the supervision of Dr. S. N. Tripathy



Gokhale Institute of Politics & Economics, Pune (Deemed to be University) Pune - 411004

March, 2015

AN ENQUIRY INTO THE REASONS FOR POOR HIGHER EDUCATION SYSTEM AND OUT MIGRATION OF STUDENTS FROM BIHAR

Number of Volumes: Thesis (One)

Name of Author: Smita Anand

Name of Research Guide: Dr. S. N. Tripathy

Name of Degree: Degree of Doctor of Philosophy

Name of University: Gokhale Institute of Politics & Economics,

Pune.

Month & Year of Submission: March, 2015

CERTIFICATE

CERTIFIED that the work in this thesis entitled "An Enquiry into the

Reasons for Poor Higher Education System and Out Migration of

Students from Bihar" submitted by Ms. Smita Anand was carried out by

candidate under my supervision. Such material as has been obtained from

other source has been duly acknowledged in this thesis.

Date: 9th March, 2015

Place: Pune-411004

Dr. S. N. Tripathy

(Research Guide)

Ш

DECLARATION

I do hereby declare that this thesis entitled "An Enquiry into the Reasons for

Poor Higher Education System and Out Migration of Students from Bihar"

is an authentic record of the research work carried out by me under the

supervision and guidance of Dr. S. N. Tripathy, Professor, Gokhale Institute

of Politics & Economics, Pune. The thesis has not been submitted earlier

anywhere else for the award of any degree diploma, associateship,

fellowship or other similar title of recognition.

Date: 9th March, 2015

Place: Pune-411004

Smita Anand

IV

DEDICATION

I dedicate this Thesis to my father,

Late Prof. B. P. Sinha

University Professor (Economics)

Magadh University, Bihar

This thesis was his last wish and I deeply miss my father,
who is not with me to share this joy.

"Feeling lost without him Feeling empty too I used to be my daddy's girl This I know was true. Now that we have split apart Gone our separate ways I pray to God each night To bring us back together someday. Yet I fear this is impossible *Not right now anyway.* I still hold out hope To be my daddy's girl again someday. Yet still all I can say is, I'm feeling lost without him Feeling empty too Dear God I'm still praying Please oh please to help me get through."

(Anonymous)

ACKNOWLEDGEMENTS

I would like to thank the Almighty who gave me strength to complete this research work successfully with patience and confidence. I cannot find adequate words to express my inner feelings, especially the sense of indebtedness and gratitude, to offer my sincere thanks to my esteemed supervisor Dr. S. N. Tripathy, Professor, Gokhale Institute of Politics & Economics, Pune, whose research acumen, continuous encouragement and personal involvement have enabled me to accomplish this work in time. He shared my concerns and anxieties despite his busy schedules of research work. I feel proud and fortunate to be his student at Ph. D. level.

I am deeply obliged to Prof. Rajas Parchure, Director, Gokhale Institute of Politics & Economics, Pune, whose intellectual simulations, invaluable suggestions and constant inspiration helped me a lot to improve the quality of research work. For this, I am really indebted to him and thank him lavishly.

I express my gratitude to external supervisors, Prof. Neeraj Hatekar and Prof. Arun C. Mehta. Their valuable suggestions and concise comments helped me in enhancing the quality of my research work.

I am equally indebted to all the Members of Ph.D Committee, Gokhale Institute of Politics & Economics, Pune, for their useful suggestions, timely assistance and unfailing support. I express my sincere thanks to all the faculty members of Gokhale Institute of Politics & Economics, Pune for

their guidance and indispensable help. I gained much knowledge from them whenever I approached them with any difficulty.

For the successful completion of field work, my gratitude and indebtedness goes to the administration, teachers and office staff of sampled colleges and schools of Bihar for providing me much needed primary data for research purposes. My love and affection also goes to all the sampled students for providing me the necessary data. I would be failing in my duty, if I could not thank them adequately.

I am also thankful to all the staff of Gokhale Institute of Politics & Economics, Pune, for their valuable cooperation. My special thanks to all the office staff of the Ph.D Section of the Institute for their support and cooperation. I am extremely thankful to my friends Vijay Bhumre and Rajesh Danane, who have extended their support throughout my research work. They have always motivated me with their kind words.

I owe a lot to my revered parents, who are pillars of my strength and acted as the guiding light throughout my life. I deeply miss my father, who is not with me to share this joy. I would like to pay high regards to my brothers, for their sincere encouragement and inspiration throughout my life and research work. I am extremely grateful to my entire family for their unconditional love and support.

I have no words to express my sentiments towards my husband for his encouragement and support during the research work. He is always beside me during the happy and hard moments to push me and motivate me. I can

see the good shape of my thesis because of his help and suggestions in

formatting the entire thesis.

Last but not the least, I feel excited to put on record my special thanks and

indebtedness to my sweetest daughter, Saanvi Anand, whose love, sacrifices

(both physically and emotionally) and moral support enabled me to pursue

the entire research work. I owe my achievements to her as well.

Date: 9th March, 2015

Place: Pune-411004

Smita Anand

VIII

CONTENTS

List of Tables

List of Figures

List of Grap	phs		
Chapter No.		Title	Page No.
1.	INTRODU		1-26
	1.1	Education, Human Capital and	
		Economic	
		Development	
	1.2	Returns to Education	
	1.3	Investment in Education	
	1.4	Importance of Higher Education	
	1.5	Higher Education in India: An	
		Overview	
	1.6	Higher Education in Bihar Vis-à-vis	
		Major States in India	
	1.7	Organization of Dissertation	
2.	REVIEW	OF LITERATURE	27-54
	2.1	Education and Economic	
		Development	
	2.2	Returns to Education	
	2.3	Investment on Education	
	2.4	Higher education in India	
	2.5	Migration for Education	
	2.6	Concluding Observation	

3.		RESEARCH METHODOLOGY, CONCEPTS AND DEFINITIONS	
	3.1	Research Methodology	
	3.2	Concepts and Definition	
	3.3	Concluding Observations	
4.	JOUR BIHAI	NEY OF HIGHER EDUCATION IN	75-106
	4.1	The development of Education in	
		Bihar during the Ancient Period	
	4.2	Education in Bihar during 17 th Century	
	4.3	Education during British Rule	
	4.4	Education during the first five decades	
		after Independence	
	4.5	Current Scenario	
	4.6	Recent Initiatives by the Government	
		of Bihar	
	4.7	Conclusion	
5.	PUBL	IC EXPENDITURE ON HIGHER	107-139
		ATION	
	5.1	Introduction	
	5.2		
		Technical Education in India	
	5.3	Public Spending on Higher and	
		Technical Education: Bihar vis-à-vis	
		other states	
	5.4	Conclusion	
6.	OUT-MI	GRATION OF STUDENTS FROM	140-178
		PRIMARY DATA ANALYSIS	
	6.1	Introduction	
	6.2	Primary Data Analysis	
	6.3	Comparative Analysis	

7.		R ISSUES, BRIEF SUMMARY AND ECOMMENDATIONS	179-214
	7.1	Major Issues	
	7.2	Brief Summary	
	7.3	Key Recommendations	
Bibliography			215-228
Annexure	I		229
Annexure	II		230-232
Annexure	III		233-235

Reasons for Out-migration:

A Discussion Conclusion

6.4

6.5

List of Tables

Table No.	Title	
1.1	Returns to Education	
1.2	Impact of Investment in Education	
1.3	Growth of Higher Education in India	
1.4	Disciplinary Orientation of Universities in India	
1.5	Number of University & University Level Institutions	
1.6	Number of Colleges & Polytechnics	
1.7	Major Indicators of Higher Education	
4.1	Journey of Higher Education in Bihar	
4.2	Growth of Higher Education System in India and Bihar	
4.3	Growth of Colleges in Selected States	
4.4	Growth of Professional Colleges (Degree & above standard) in	
	Selected States	
4.5	State-wise Number of University & University Level	
	Institutions	
4.6	State-wise Number of Colleges and Disciplinary Orientation	
4.7	State-wise Number of Management Colleges, 2006	
4.8	College Population Index by Types of Educational Institutions,	
	2002	
4.9	Growth of Student Enrollment (Excluding open University) in	
	Higher Education	
4.10	Enrolment (Excluding Open University) by Stages in 2009-10	
4.11	Faculty Wise Student Enrollment (Excluding Open University)	
4.12	Total Enrolment in Higher Education by Gender, 2009-2010	
4.13	Total Enrolment in Higher Education by Community, 2009-10	
4.14	Gross Enrollment Ratio in Higher Education, 18-23 Years	
5.1	Expenditure on Education – As Ratio to Aggregate	
	Expenditure	
5.2	Expenditure on Higher, Technical and Total Education – As	
	per cent to GSDP	
5.3	Expenditure on Higher, technical and Total Education – As per	
	cent to Total Budgeted Expenditure	
5.4	Percent Expenditure on each Subsector of Education to Total	
	Expenditure on Education	
5.5	Revenue and Capital Expenditure on Higher & Technical	
	Education - As % to their total Expenditure	
5.6	Plan and Non-Plan Expenditure on Higher & Technical	

	Education - as % to their total Expenditure	
5.7	Per Student Public Expenditure on Higher Education (Rs. in	
	current prices)	
5.8	District wise Per Capita Expenditure on Higher Education	
	(Rs.)	
5.9	Demographic Profile – Selected Districts of Bihar, 2001	
5.10	Availability of Physical Infrastructure in Selected Districts of	
	Bihar	
5.11	Per Capita Income and Expenditure during 2007-08, Selected	
	Districts of Bihar	
5.12	Distribution of Educationally Backward Districts in Bihar	
5.13	Public Expenditure on Scholarships in Higher & Technical	
	Education: As % to their Total Expenditure	
6.1	Gender-wise Distribution of Respondents	
6.2	Community-wise Distribution of Respondents	
6.3	Family Size of Respondents	
6.4	Family Occupation of Respondents	
6.5	Annual Family Income of Respondents	
6.6	Educational Attainment of Parents	
6.7	Perception about Quality of Education	
6.8	Perception about Curriculum (Per cent of Respondents)	
6.9	Learning Resources (Per cent of Respondents)	
6.10	Physical Infrastructure (Per cent of Respondents)	
6.11	Students' Support Facility (Per cent of Respondents)	
6.12	Distribution of Sample Students Studying Outside Bihar	
6.13	Stream-wise Distribution of Sample Students	
6.14	Main Reason for Out-migration	
6.15	Sources of Financing	
6.16	Factors Responsible for Poor Higher Education	
6.17	Comparative Picture of Institutions	
7.1	Supply Deficit of Higher Educational Institutions in Bihar	
7.2	State-wise Distribution of Districts based on GER (2001)	
7.3	State-wise Distribution of Districts by CPI and GER	
7.4	State wise Relative Position of Females in Higher education	
	system	
7.5	GER among Social Groups, 2009	
7.6	GER by Area (all categories), Census 2001	
7.7	Distribution of Districts in Bihar based on Categories of C-PI	
	and GER	

7.8	Status of Institutional Accreditation in States
7.9	Sanctioned and Vacant Posts of Teachers in Universities in
	Bihar in 2011

List of Figure

Figure No.	Title
1.1	Returns to Education

List of Graphs

Graph No.	Title
1.1	Gross Enrollment Ratio in Tertiary Education
4.1	Pupil-Teacher Ratio
6.1	Distribution of Respondents
6.2	Per Cent of Respondents Desirous of Going Out for Higher
	Education